



Enhance Place Pty Limited

ABN: 31 077 105 867

Environmental Management Strategy

for the

Pine Dale Coal Mine (Including the Yarraboldy Extension)



August 2015

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GLOSSARY OF ACRONYMS

AEMR	-	Annual Environmental Management Report*
AHD	-	Australian Height Datum
AS	-	Australian Standard
CCC	-	Community Consultative Committee
DoP&I	-	Department of Planning and Infrastructure
DPE	-	Department of Planning and Environment
EMS	-	Environmental Management Strategy
EPL	-	Environment Protection Licence
INP	-	NSW Industrial Noise Policy 2000
ISO	-	International Standards Organisation
NOW	-	NSW Office of Water
NZS	-	New Zealand Standard
OEH	-	Office of Environment and Heritage
PA	-	Project Approval
PM ₁₀	-	Particulate Matter less than 10 microns in diameter
RTA	-	NSW Roads and Traffic Authority

** With the acceptance of the Director-General, the AEMR will also satisfy the requirements of the Annual Review outlined in Schedule 5 Condition 3 of PA 10_0041. Therefore, reference to the AEMR can also be taken as reference to the Annual Review*

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1. INTRODUCTION

1.1 OVERVIEW

Project Approval (PA) 10_0041 was issued for the Pine Dale Coal Mine (“the mine”), incorporating the Yarraboldy Extension, by the Minister for Planning on 20 February 2011. A copy of PA 10_0041 is reproduced in **Appendix 1**. The mine is located near Blackmans Flat on the northern side of the Castlereagh Highway, 17km northwest of Lithgow and 5km north of Wallerawang, in the Western Coalfields of New South Wales (see **Figure EMS1**).

This Environmental Management Strategy (EMS), which forms part of the integrated Environmental Management System, describes the overall framework for environmental management for the ongoing operation of the Pine Dale Coal Mine. The EMS also addresses the principal strategies to be adopted by Enhance Place Pty Limited (hereafter “the Company”) and the mining contractor, including compliance management and monitoring, conflict resolution and consultation / information dissemination processes.

The Pine Dale Mine was placed on care and maintenance following the cessation of all coal extraction in April 2014. As such all mining operations have been temporarily suspended and the arrangements and proposed management of the Pine Dale mine during this period are detailed within the Care and Maintenance Mining Operations Plan (C&M MOP, 2014). Pine Dale will be managed under care and maintenance arrangements until the recommencement of mining under a new planning approval has been determined. While in Care and Maintenance, Pine Dale will continue to meet environmental approvals and obligations. The environmental management plans have been modified to reflect the current reduced impact consistent with the care and maintenance term.

The Company’s principal objectives in the development and operation of the mine were to:

1. continue to supply up to 350 000tpa of coal to customers by public road and Private Coal Haul Road;
2. mine the resource in a manner that maximises the recovery of coal and reduces the volume of overburden/interburden required to be handled;
3. rehabilitate the previously mined areas within the Yarraboldy Extension Area for return to State Forest capability;
4. maintain compliance with PA 10_0041, other relevant approvals, licences and permits and meet accepted industry standards and reasonable community expectations; and
5. operate the mine in a safe and environmentally responsible manner.

The Company’s principal objectives in the care and maintenance of the mine are to:

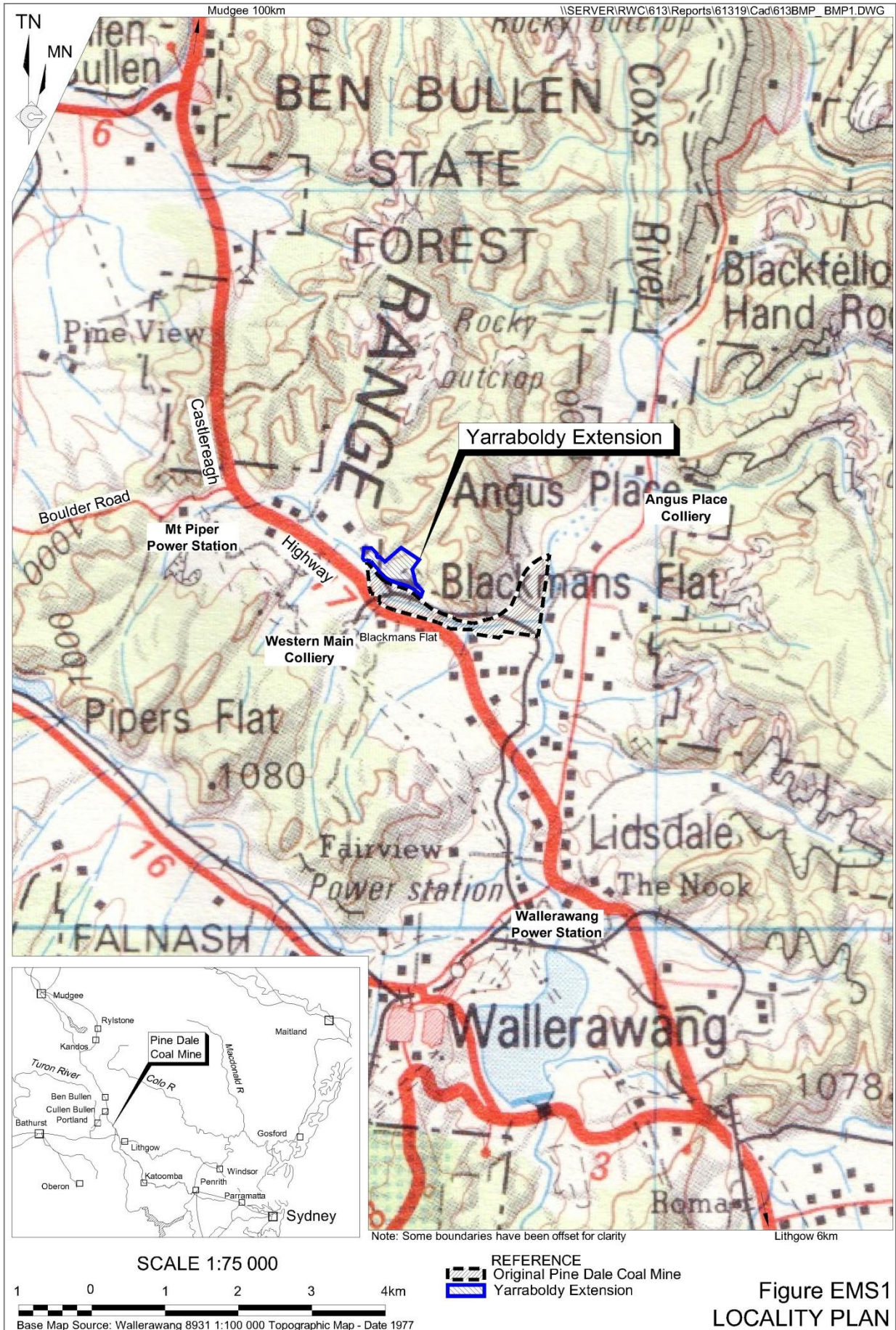
6. maintain existing rehabilitated areas, improve pasture rehabilitation outcomes and continue the progressive rehabilitation fo Neubecks Creek;

7. maintain compliance with PA 10_0041, other relevant approvals, licences and permits and meet accepted industry standards and reasonable community expectations; and
8. operate the mine under care and maintenance arrangement in a safe and environmentally responsible manner

The requirements with respect to the timing for submission and contents of the EMS are contained within *Schedule 5 Condition 1* of PA 10_0041. **Table 1** reproduces *Schedule 5 Condition 1* and identifies where in this document each required element of the EMS is addressed.

1.2 STRATEGIC CONTEXT

The aim of the EMS is to provide an overall framework for the environmental management of the mine drawing together the various management plans required by PA 10_0041 (see **Figure EM2**), outline the Company's commitment to proactive community and environmental management and demonstrate a commitment to reducing environmental and community impacts. The structure of the EMS is generally based around the ISO 14001 standard for environmental management systems 'Plan-Do-Check-Act' process. **Table 2** provides a summary of this strategic approach to environmental management as described in the EMS.



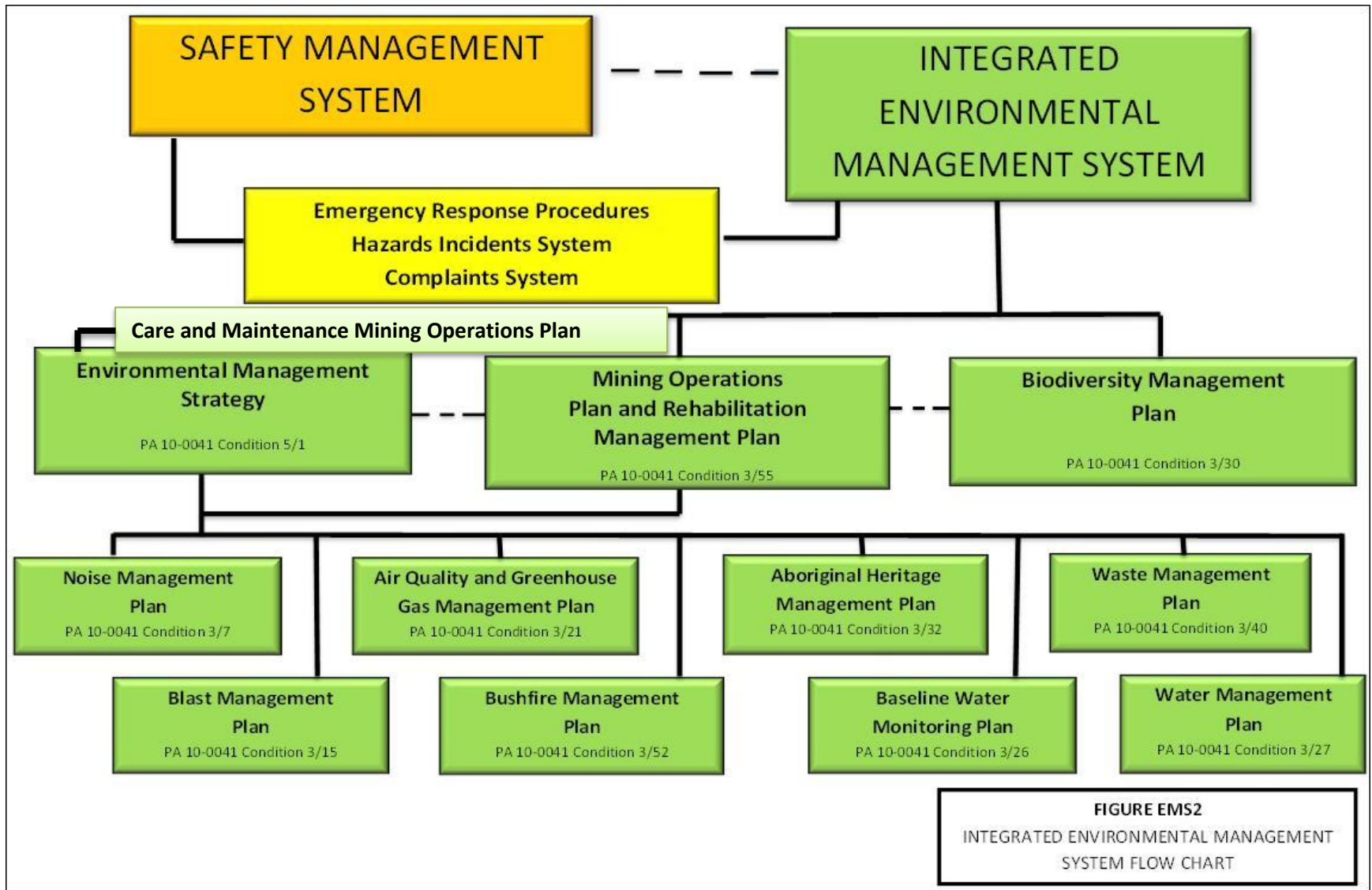


Figure EMS2 Integrated Environmental Management System Flow Chart

A4 Colour

Table 1.1
Coverage of Requirements in Schedule 5 Condition 1 of PA 10_0041

Requirement	Coverage
SCHEDULE 5: ENVIRONMENTAL MANAGEMENT, MONITORING, REPORTING & AUDITING	
1. <i>The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. This strategy must:</i>	
(a) <i>be submitted to the Director-General for approval by the end of April 2011;</i>	*
(b) <i>provide the strategic framework for environmental management of the project;</i>	1.2
(c) <i>identify the statutory approvals that apply to the project;</i>	3.0
(d) <i>describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</i>	5.0
(e) <i>describe the procedures that would be implemented to:</i>	
• <i>keep the local community and relevant agencies informed about the operation and environmental performance of the project;</i>	6.1
• <i>receive, handle, respond to, and record complaints;</i>	6.2
• <i>resolve any disputes that may arise during the life of the project;</i>	6.3
• <i>respond to any non-compliance;</i>	7.0
• <i>respond to emergencies; and</i>	8.0
(f) <i>include:</i>	
• <i>copies of any strategies, plans and programs approved under the conditions of this approval; and</i>	-
• <i>a clear plan depicting all the monitoring required to be carried out under the conditions of this approval.</i>	Figure EMS5
* An extension of the required date for submission of the EMS to 16 May 2011 was provided by DoP&I.	

Table 1.2
Strategic Context of the Environmental Management Strategy

Feature	Context within EMS	EMS Section
Plan	• Maintain register of legal and other requirements	Section 3
	• Maintain register of environmental aspects and impacts	5.1
	• Set environmental objectives and targets	Appendix 2
	• Develop environmental programs and management plans	Section 5
Do	• Identify and allocate responsibilities for environmental management	Section 4 & Appendix 2
	• Develop and maintain operating procedures	Section 5
	• Maintain external communications with regulators, members of the public and other stakeholders	Sections 6 and 7
	• Effectively manage complaints	6.2
	• Effectively manage disputes	6.3
	• Undertake operations in compliance with PA 10_0041	Appendix 2
	• Implement emergency preparedness and response strategies / plans	Section 8
Check	• Complete an annual review of compliance with environmental statutory requirements during the preparation of the Annual Environmental Management Report	5.1
	• Undertake environmental monitoring	Section 5
	• Undertake environmental inspections	Section 7
	• Review non-compliances and corrective/preventive action plans	Section 7
	• Commission independent audits of operations	Section 7
Act	• Undertake a periodic review and revision of the EMS by senior personnel	Section 9
	• Implement and review non-compliance and corrective/preventive actions	Section 7

2. DESCRIPTION OF THE PINE DALE COAL MINE

The Pine Dale Coal Mine incorporates the following areas and authorisations.

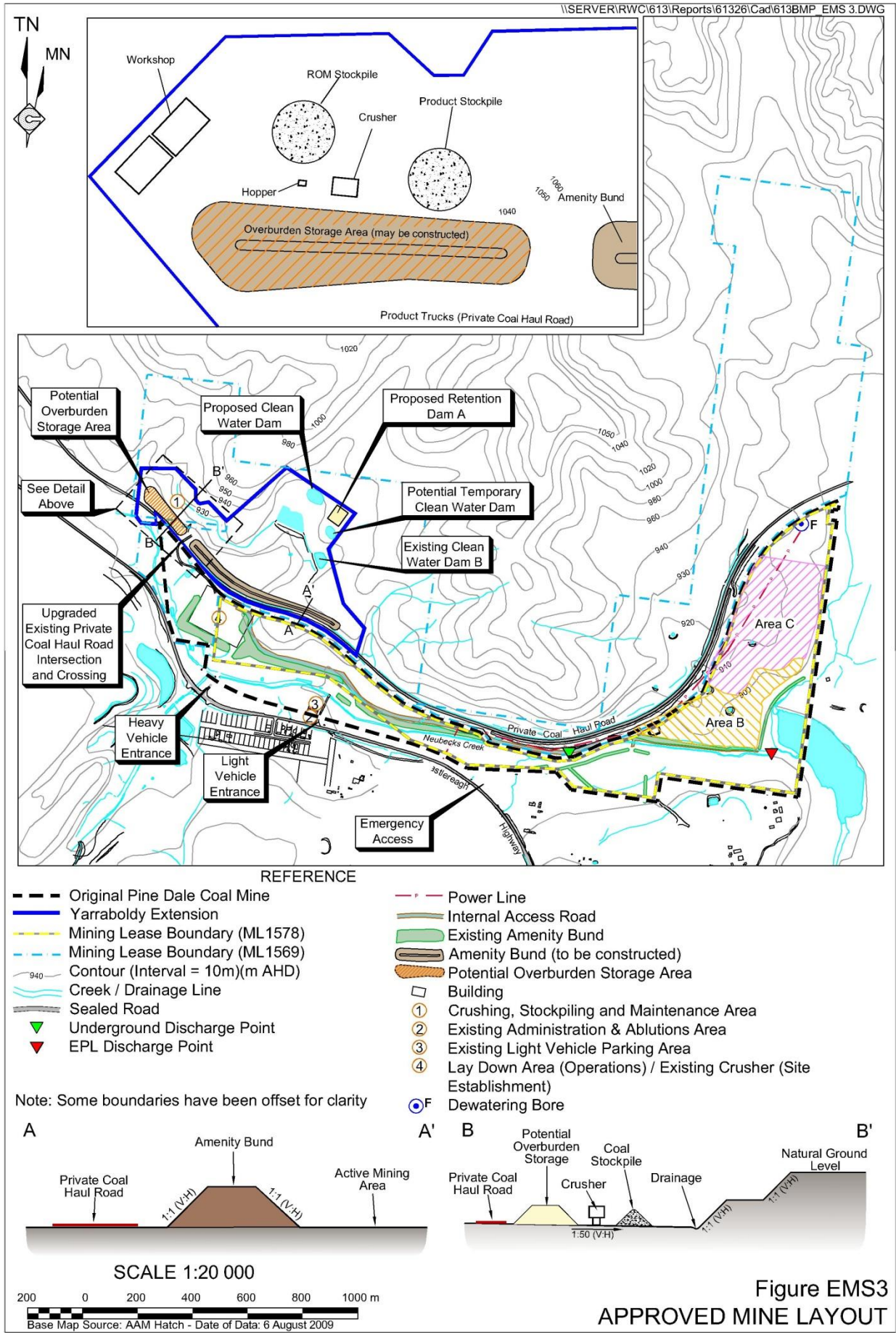
- The original Pine Dale Coal Mine covering an area of approximately 83ha and incorporating ML 1578 and part of ML 1569.
- The Pine Dale Coal Mine – Yarraboldy Extension covering an area of approximately 27ha directly north of the original Pine Dale Coal Mine incorporating parts of ML 1569 (26.1ha) and the Mining Lease resulting from MLA 375 (17.9ha).

Figure EMS3 shows the approved site layout.

Mining operations within the original Pine Dale Coal Mine are effectively completed with final rehabilitation being undertaken. The Pine Dale Coal Mine - Yarraboldy Extension did and will include the following principal components and activities.

- Extraction of run-of-mine (ROM) coal over 2½ years (which includes 6 months site establishment) using open cut mining methods at a rate of up to 350 000t of ROM coal per year. The Project life will be 3 years to allow for 6 months at the end of coal extraction to finalise rehabilitation on the site.
- Upgrade of the intersection with the Angus Place to Mt Piper Power Station Private Coal Haul Road.
- Continued transportation via public road of up to 100 000tpa of product coal to customers.
- Transportation via the Private Coal Haul Road of approximately 250 000tpa of product coal to customers.
- Extraction and emplacement of overburden and interburden material within mined out areas to create a stable and safe final landform - effectively rehabilitating the areas associated with the former Yarraboldy Open Cut Mine within the extension area.
- Dewatering of groundwater within the underground workings and any inflows into the mine area.
- Other ancillary activities, including equipment maintenance, clearing and stripping of the areas to be disturbed and rehabilitation activities.

Extractive open cut mining operations ceased in April 2014 when Approved mineable resources were exhausted. Rehabilitation activities are currently being undertaken consistent with the Approved Care and Maintenance Mining Operations Plan.



3. STATUTORY REQUIREMENTS

3.1 APPROVALS, LICENCES, PERMITS AND LEASES

The following approvals have been obtained to enable operations to proceed.

Project Approval 10_0041

This project approval incorporates the original Pine Dale Coal Mine as well as the Pine Dale Coal Mine – Yarraboldy Extension. Granted by the, then, Department of Planning. This project approval superseded DA 461-04 which was originally granted by Lithgow City Council (under delegated authority from the (then) Minister of Infrastructure, Planning and Natural Resources) on 14 November 2005 for the original Pine Dale Coal Mine. DA 461-04 will be surrendered to Lithgow City Council in accordance with Project Approval 10_0041.

Environment Protection Licence No. 4911 (annual anniversary date – 24 November)

This licence initially issued by the, then Department of Environment and Conservation, under the *Protection of the Environment Operations Act 1997* for the rehabilitation work being completed for the Wallerawang Colliery Pit Top, has been varied to include the original Pine Dale Coal Mine including the Pine Dale Coal Mine – Yarraboldy Extension. The licence permits mining of between 0 and 500 000tpa of coal and coal works of between 0 and 2 000 000tpa of loaded coal.

Mining Lease 1569 (dated 04 July 2007)

ML 1569 incorporates approximately 161ha of land immediately north of the Pine Dale Coal Mine of which approximately 39.7ha is located within the approved Pine Dale Coal Mine (see **Figure EMS4**). A minor portion covers the right to mine from surface to depth and is included in the Yarraboldy Extension Area, however, the majority of the lease area excludes the surface to 15.24 metres

Mining Lease 1578 (dated 15 March 2006)

Mining Lease (ML) 1578 incorporates 69.4ha of land within the boundary of the original Pine Dale Coal Mine (see **Figure EMS4**). ML1578 was granted following receipt of the original Development Consent for the Pine Dale Coal Mine from the Lithgow City Council on 14 November 2005.

Mining Lease Application 375 (dated 29 October 2010)

The Mining Lease resulting from MLA 375 incorporates a total area of 17.91ha within the western part of ML 1569 (see **Figure EMS4**).

Flood Control Works Licence No. 10CW801601 (dated 23 December 2005)

This licence was issued by the, then, Department of Natural Resources under Part 8 of the *Water Act 1912* for the construction of noise/flood bunding along the southern boundaries of the mining areas of the original Pine Dale Coal Mine.

Bore Licence 10BL165933 (dated 22 December 2005)

This licence was issued by the, then, Department of Natural Resources under Part 5 of the *Water Act 1912* for the use of six piezometers for monitoring groundwater levels and quality.

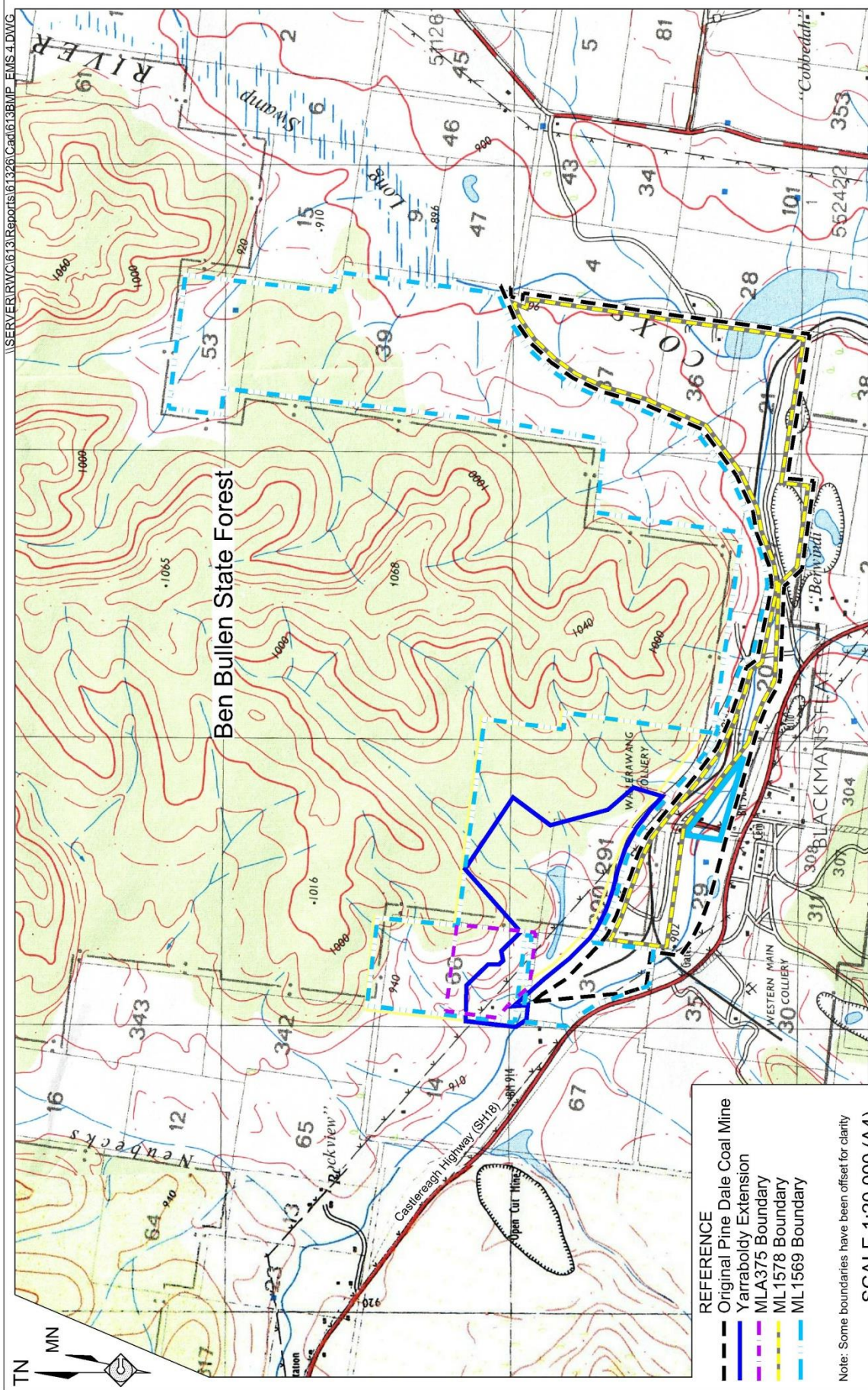


Figure EMS 4
MINING TITLES

Bore Licences 10BL604437 and 10BL10604438 (dated 12 April 2011)

This licence was issued by the NSW Office of Water under Part 5 of the *Water Act 1912* for interception and use of up to a total of 200ML (combined allocation) of groundwater per year from the open cut void or Wallerawang Underground Workings.

3.2 LEGISLATION

The key reference documents include the following Acts and their respective regulations.

- *Contaminated Land Management Act 1997.*
- *Dangerous Goods Act 1975.*
- *Environmental Planning and Assessment Act 1979.*
- *Commonwealth Environment Protection and Biodiversity Conservation Act 1999.*
- *Local Government Act 1993.*
- *Mine Health and Safety Act 2004.*
- *National Parks and Wildlife Act 1974.*
- *Native Vegetation Conservation Act 1997.*
- *Occupational Health and Safety Act 2000.*
- *Protection of the Environment Administration Act 1999.*
- *Protection of the Environment Operations Act 1997.*
- *Roads Act 1993.*
- *Soil Conservation Act 1938.*
- *Threatened Species Conservation Act 1995.*
- *Water Act 1912.*
- *Water Management Act 2000.*

3.3 MISCELLANEOUS STANDARDS AND GUIDELINES

3.3.1 Standards

The following standards are, or are potentially, of relevance to the mine's Environmental Management System. AS refers to an "Australian Standard, NZS refers to "New Zealand Standard" and ISO refers to the "International Standards Organisation".

- AS 3580.1.1 - 2007 Methods for Sampling and Analysis of Ambient Air – Guide to Siting Air Monitoring Equipment.
- AS 2923 – 1987 Ambient Air – Guide for Measurement of Horizontal Wind for Air Quality Applications.
- AS 2601 – 2001 Demolition of Structures.
- AS 3580.10.1 – 2003 Methods for Sampling and Analysis of Ambient Air – Determination of Particulates – Deposited Matter – Gravimetric Method.

- AS 4282 – 1997 – Control of Obtrusive Effects of Outdoor Lighting.
- AS 1940 – 2004 and Amendment 1 – 2004 The Storage and Handling of Flammable and Combustible Liquids.
- AS 1596 – 2008 The Storage and Handling of LP Gas.
- AS / NZS 3580.9.6 – 2003 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter PM₁₀ high volume sampler with size-selective inlet – Gravimetric Method.
- AS / NZS 3580.9.3 – 2015 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – Total Suspended Particulate Matter (TSP) – High volume sampler gravimetric method.
- ISO 14001 – 2004 Environmental Management Systems – Requirements with guidance for use.
- ISO 19011 – 2002 Guidelines for Quality and/or Environmental Systems Auditing.

3.3.2 Guidelines

The following guidelines are, or are potentially, of relevance to the mine's Environmental Management System.

- Australian Dangerous Goods Code 7th Edition.
- Guidelines for Major Project Community consultation (Department of Planning 2007)
- Managing Urban Stormwater: Soils and Construction (Department of Housing, 2004).
- Managing Urban Stormwater: Soils and Construction Volume 2E (DECC, 2008)
- National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ, 2000).
- NSW EPA Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (EPA, 2007).
- NSW EPA Approved Methods and Guidance for Modelling in Assessment of Air Pollutants in NSW (EPA, 2005).
- NSW EPA Environment Criteria for Road Traffic Noise (EPA, 1999) (to be replaced by NSW Road Noise Policy from 1 July 2011).
- NSW Industrial Noise Policy (EPA, 2000).
- Waste Classification Guidelines (DECCW 2009).

4. ENVIRONMENTAL MANAGEMENT RESPONSIBILITY, PERSONNEL AND ROLES

The Company recognises that the success of the mine's development and operation from a corporate, neighbour and broader community perspective will be enhanced through the achievement of the following objectives.

- 1) The development of a sense of project ownership, community membership and environmental responsibility by all Company and contracted personnel.
- 2) A recognition and acceptance of the physical, biological and social sensitivities of the mine by all Company and contracted personnel.
- 3) Developing a culture of environmental awareness as an integral part of all planning and day-to-day activities. The awareness will be achieved through workforce and, to a lesser extent, community education.
- 4) Maintaining an honest and open relationship with the community members and ensuring expeditious responses to any issues which may arise.

Ultimate responsibility for the achievement of the above objectives will lie with the Directors of Enhance Place Pty Limited. Overall site-based responsibility for all activities and all personnel at the mine, including their compliance with all applicable laws, regulations, licences and approvals and achievement of the desired environmental outcomes, is the responsibility of the Manager Mining Engineering.

In addition to their overarching site-based responsibility, the Manager Mining Engineering will be specifically responsible for:

- ensuring all contractors, sub-contractors and service-personnel are appropriately qualified and / or licenced to undertake the required work and have a good environmental performance record;
- ensuring all operations are undertaken in accordance with relevant environmental legislation;
- providing the final sign-off and/or authorising distribution of, all environmental reports / management plans etc;
- workforce induction / training; and
- communication with statutory authorities and the local community.

Though retaining the responsibilities identified above, the Manager Mining Engineering may, at their discretion, delegate specific tasks to suitably qualified and / or experienced operational personnel and / or consultants.

5. ENVIRONMENTAL PERFORMANCE – MANAGEMENT AND MONITORING

5.1 INTRODUCTION

A risk analysis and detailed assessment of the anticipated environmental impacts associated with the mine was included in the *Environmental Assessment* and supporting *Specialist Consultants Studies Compendium*. Environmental monitoring to determine compliance against the conditions of PA 10_0041 will be managed by the Manager Mining Engineering and delegated personnel.

The success of the Company's environmental performance at the mine will be assessed by the satisfaction of the Conditions of PA 10_0041, Conditions within the Environment Protection Licence (EPL) and other approvals or licences. This, in turn, will be measured by way of achievement of key performance outcomes and satisfaction of the Company's objectives with respect to the management of:

- water resources;
- ecology;
- transportation;
- blasting
- noise;
- air quality;
- heritage; and
- visibility.

The assessment of performance, which may be quantitative and / or qualitative, will be reported in each relevant Annual Environmental Management Report (AEMR).

The following sub-sections outline the key performance outcomes with respect to each of the above areas. **Appendix 2** details the program for implementation of Project Approval conditions and actions recorded in the Statement of Commitments. These tables provide a means by which the Company and others can assess progress towards the achievement of the nominated objectives.

There are no planned mining activities to be undertaken at the Pine Dale during the care and maintenance term. Pine Dale will be managed under care and maintenance arrangements until the Stage 2 Project can be determined. Activities relating to existing licences and approvals such as water management and sediment control, rehabilitation and maintenance works and general housekeeping will continue. The maintenance of existing site infrastructure such as haul roads, maintenance workshop, office buildings and water management structures is proposed during the care and maintenance term. Management Plans have been updated to reflect the care and maintenance term and reference to change to specific management plans are given in the subsequent sections.

5.2 WATER RESOURCES

Surface Water

The mine is located in the Neubecks Creek catchment which is a sub-catchment of the Upper Coxs River, which in turn is part of the greater Warragamba Dam catchment. Natural drainage

within the Yarraboldy Extension Area is generally to the south and southeast following the natural topography toward the receiving waters of Neubecks Creek.

It was been assessed that, by implementation of appropriate water management measures, the impact on surrounding water quality and quantity will be minimal. Management of water flows will assist in separating and restoring clean water flows (that are currently reporting to the underground workings) to Neubecks Creek. This will occur through the construction of a series of clean water diversion bunds and removal of clean water dams within the natural system during rainfall events to allow flows through the system. Additionally, by implementing and maintaining the clean and dirty water management measures for the mine, it is anticipated that there will be neutral or beneficial impact upon surface water.

A summary of the principal surface water management measures is provided as follows.

- Diversion of 'clean' water flows around disturbed areas to minimise the mobilisation of sediments.
- Capture of all 'dirty' dirty water flows utilising the 'dirty' water management system including catch banks, sumps and sediment retention basin.
- If discharge is required following significant rainfall events, water will be piped to the existing Sediment Dams within the Pine Dale Coal Mine footprint before being discharged to Neubecks Creek via the existing discharge point LDP13.

Site specific water quality trigger levels of surface water that are based on a 3 year period of baseline data collection have been included in the newly revised water management plan. The revision was in response to recommendations from NSW Office of Water and amendments include site specific triggers for pH. The current surface water management plan will remain in place for the duration of the care and maintenance term.

Groundwater

The primary water bearing zones are associated with the coal seams and the abandoned Wallerawang Underground Workings. Minor water bearing zones also occur within the interburden, however, these generally act as aquitards due to their reduced vertical permeability. Groundwater levels in the old workings have been estimated to be between 880m AHD and 883.6m AHD.

Groundwater quality surrounding the Mine Site is variable with variations in both minor and major hydrochemical parameters including pH, salinity and cation / anion composition.

It has been assessed that groundwater drawdown in the Lithgow Seam will occur to the north only, as the seam outcrops to the south. The drawdown is predicted to be negligible as the Lithgow Seam dips northeasterly and its elevation at the northern boundary of the Yarraboldy Extension Area will be below the groundwater elevations within the extension footprint.

No drawdown will occur in the Lidsdale and Irondale Seams as both seams outcrop within the northern areas of the proposed Yarraboldy Extension Area and only minor seepage is expected.

No adverse impacts are predicted on adjacent licensed groundwater users or basic landholder rights. The flow and water quality within the Neubecks Creek and groundwater dependent ecosystems will not be affected by the Yarraboldy Extension.

Due to the minimal volumes of groundwater that will be encountered with the Yarraboldy Extension Area, few mitigation measures are required. However, the mitigation measures and management procedures to be adopted include the following.

- Placement of a strategically located sump pump in the open cut pit to ensure collection of groundwater and dewatering of the pit (principally in the northern section of Yarraboldy Extension Area where groundwater may be present within the underground workings).
- Management of any groundwater intercepted for use on site in dust suppression rather than discharging any raw groundwater into the surrounding surface water environment.
- Appropriate management of chemicals and hydrocarbons to ensure that groundwater is not contaminated by spills of these substances.

A Water Management Plan and Baseline Water Monitoring Plan will be prepared in accordance with *Schedule 3 Conditions 26 and 27* of PA 10_0041 to ensure the implementation of appropriate management measures for surface water and groundwater together with ongoing monitoring to demonstrate compliance. The site specific Trigger Values for water quality parameters pH and Electrical Conductivity developed for the Pine Dale Mine, as stipulated in the sites' Water Management Plan in accordance with Schedule 3, Condition 27(c) of the Project Approval (PA 10_0041).

The current groundwater management system will remain in place for the duration of the care and maintenance term.

Table 5.1 presents the objectives and key performance outcomes for water resources.

**Table 5.1
Objectives and Key Performance Outcomes – Water Resources**

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To protect the quality of surface and groundwater resources.</p> <p>(b) To protect stream health, vegetation health and stream stability.</p> <p>(c) To ensure groundwater availability to, or use by, local landowners is not compromised and that mechanisms are in place for the amelioration and / or compensation to account for any adverse impacts.</p> <p>(d) To effectively separate “clean” and “dirty”.</p> <p>(e) To regularly assess, amend and document the effectiveness of the site’s water management controls.</p> <p>(f) To prepare, implement and review as necessary a Water Management Plan, including a site water balance and surface and groundwater monitoring programs.</p>	<p>(i) All activities are undertaken in accordance with the approved Water Management Plan, including the following.</p> <ul style="list-style-type: none"> - Appropriate water control systems are in place. - No significant erosion or sedimentation occurs on site or within Neubecks Creek. - The stream health and riparian vegetation of Neubecks Creek is not adversely impacted by mining-related operations. - “Clean” and “dirty” waters are effectively segregated. - Waters “contaminated” or potentially “contaminated” with hydrocarbons are collected and treated in an appropriate manner. - The quality of the groundwater resource is not adversely affected. - The availability of groundwater to local users is not reduced and / or remains within predicted levels. - Surface and groundwater monitoring results and

	<p>observable trends are regularly assessed.</p> <ul style="list-style-type: none"> - An appropriate response plan is in place or established if negative water quality or quantity impacts occur. - Effective water controls remain in place on cessation of mining. - Ground and surface water monitoring results continue to comply with relevant criteria post mining operation. <p>(ii) All monitoring results, general observations and changes to water management are reported in each AEMR.</p>
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5.3 ECOLOGY

During flora surveys undertaken of the Yarraboldy Extension Area a total of four vegetation communities were identified, namely:

- Stringybark – Scribbly Gum Forest;
- Mountain Gum Forest;
- Open Cleared Lowland with Scattered Trees; and
- Disturbed Lands.

The flora assessment undertaken for the Yarraboldy Extension concluded that no threatened plant species, endangered flora populations, endangered or critically endangered ecological communities or critical habitat exist within the Yarraboldy Extension Area.

During fauna surveys undertaken of the Yarraboldy Extension Area, four amphibian, 45 bird, 18 mammal and 6 reptile species were identified. Of these, three species are listed under the *Threatened Species Conservation Act 1995* (TSC Act) including the Scarlet Robin, Gang-gang Cockatoo and the Grey-headed Flying Fox and one species under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act), namely the Grey-headed Flying Fox.

An additional six species of insectivorous bats were identified with “possible” or “probable” confidence by analysis of calls recorded by Anabat call detectors. Four are listed as vulnerable under the TSC Act (Large-eared pied bat, Eastern bent-wing bat, Eastern cave bat and Yellow-bellied sheath-tail bat) and one as vulnerable under the EPBC Act (Large-eared pied bat)

No endangered fauna populations were identified as occurring or likely to occur within the locality and none were recorded.

The principal mitigation and management measures relating to ecology that will be implemented are as follows.

- Implementation of procedures to block the existing underground mine entry during times when any bat species which could potentially use the entrance are least likely to be inside.
- Ensuring the presence of a suitably trained person during vegetation clearing to assist any native fauna escape the site and to rescue any injured animals.

- Relocation of any threatened fauna species which do not naturally move from the area prior to clearing.
- Salvage, where possible, items of habitat value such as logs, hollows or ‘bushrock’ and retention of live tree trunks greater than 30cm in diameter for replacement on the rehabilitated landform.
- Control of noxious weeds.

Additionally, in accordance with *Schedule 3 Conditions 28 to 31* of PA 10_0041:

- a Biodiversity Offset Strategy will be prepared by end February 2012;
- a long-term security will be provided for the offset area within 6 months of the approval of the Biodiversity Offset Strategy;
- a Biodiversity Management Plan will be prepared by end of February 2012; and
- a conservation bond will be provided for the full cost of implementing the Biodiversity Offset Strategy within 3 months of approval of the Biodiversity Management Plan.

As mining activities have now ceased and the former mining area has been rehabilitated; there are limited potential impacts on flora and fauna remaining at Pine Dale mine. The current Flora and Fauna Management Plan and Purple Butterfly Monitoring Program will remain in place for the duration of the care and maintenance term. The current ecological management system including annual flora surveys will remain in place for the duration of the care and maintenance term.

Table 5.2 presents the objectives of ecology management along with the key performance outcomes.

**Table 5.2
Objectives and Key Performance Outcomes – Ecology**

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To minimise potential impacts on threatened flora and fauna. (b) To maximise re-establishment / regeneration of native vegetation and utilisation of this by native fauna. (c) To control noxious weeds. (d) To develop and implement a Biodiversity Offset Strategy and Biodiversity Management Plan.	(i) Ecological management procedures and rehabilitation in accordance with commitments within the <i>Environmental Assessment</i> and Rehabilitation Management Plan. (ii) Successful implementation of the Biodiversity Offset Strategy and Management Plan. (iii) Efforts and progress in ecological management reported in AEMR.

5.4 TRANSPORTATION

In order to facilitate the ongoing transport of coal via the Castlereagh Highway, the following works and measures were outlined within the *Environmental Assessment*.

- Installation of truck turning signs in accordance with RTA requirements.
- Installation of guide posts at both the heavy vehicle and light vehicle entrance to delineate the entrance and highlight the bus stop at the light vehicle intersection to the Pine Dale Coal Mine.
- Removal of a willow tree and scrub to the east of the heavy vehicle intersection to the Pine Dale Coal Mine to improve sight distance.
- Continued implementation of a the 'Surface Transport Management Plan' incorporating safety and behaviour protocols for product truck drivers including the need to tarp all loads and minimise the potential of material spillage.
- Heavy vehicle access via the Heavy Vehicle Intersection are limited to a maximum of ten (10) per hour (20 movements).

Additional measures to minimise potential impacts as outlined within *Schedule 3 Condition 35* of PA 10_0041 also include the following.

- All product coal will be transported to the Mt Piper and Wallerawang Power Stations by the Private Coal Haul Road (excepting emergency situations with prior approval of the Director-General).
- A maximum of 100 000 tonnes of coal will be transported on Castlereagh Highway in a calendar year, including a maximum of 30 000 tonnes transported to the east of the site via the Castlereagh Highway in a calendar year.
- No transportation of coal via the Castlereagh Highway will occur past school bus stops during times when school buses are operating in the vicinity of the site.
- No more than four (4) coal product trucks per hour (8 movements) will enter/exit the mine via the Castlereagh Highway during the evening period (to ensure compliance with traffic noise criteria).
- No coal product trucks enter/exit the site during the night-time period.

As mining activities have now ceased there are limited potential impacts from Pine Dale mine.

Table 5.3 presents the objectives and key performance outcomes for transportation.

**Table 5.3
Objectives and Key Performance Outcomes – Transportation**

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To keep the local community informed and to respond quickly and effectively to issues and complaints.	(i) All transport trucks are well maintained, roadworthy and drivers act in courteous manner.
(b) To effectively implement the 'Surface Transport Management Plan'.	(ii) Payment of contributions to the maintenance of public roads in accordance with <i>Schedule 2 Condition 15</i> of PA 10_0041.
(c) To undertake coal deliveries in a manner which ensures the safety of other road users and landholders.	(iii) Implementation of the Surface Transport Management Plan.
	(iv) Issues arising relating to transportation are managed in accordance with the complaints management section of the EMS (see Section 6.2).

5.5 BLASTING

All blasts at the mine will be designed to satisfy environmental and safety criteria with respect to airblast overpressure, ground vibration and flyrock. All blasts will be undertaken in accordance with the Blast Management Plan and Road Closure Management Plan approved by DoP&I. This will include blast modelling as appropriate and establishment of blast management zones. The current Blast Management Plan will be suspended for the duration of the care and maintenance term and need not be addressed due to its non-applicability.

Table 5.4 presents the objectives and key performance outcomes for blasting.

**Table 5.4
Objectives and Key Performance Outcomes – Blasting**

Page 1 of 2

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To manage blasting operations so as to: <ul style="list-style-type: none"> - minimise airblast and ground vibration consistent with operational requirements, and ensure all blasts are designed, and implemented to ensure compliance with statutory criteria; - cause no damage to structures / buildings / infrastructure / services; and - pose no risk to public safety or livestock. (b) To keep the community informed of the planned dates and times of impending blasts. (c) To keep the community and regulators informed on blasting outcomes and respond quickly and effectively to all issues and/or complaints in accordance with a documented protocol.	(i) Before the 31 April 2011, the owners of any privately owned land within 2km of the Yarraboldy open cut area will be notified in writing of their entitlement to a building inspection or to have a previous inspection report updated. (ii) A blasting hotline (or alternative approved method) is in place, updated as necessary and functional. (iii) If any landowner within 2 kilometres of blasting operations claims damage to property as a result of blasting at the mine, the Company will within 2 months of receiving this request: <ul style="list-style-type: none"> (a) commission a suitably qualified person to investigate the claim; and (b) give the landowner a copy of the property investigation report. (iv) An effective pre-blasting notification program in place for local landowners / residents.

**Table 5.4 (Cont'd)
Objectives and Key Performance Outcomes – Blasting**

Page 2 of 2

OBJECTIVES	KEY PERFORMANCE OUTCOMES
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<p>(d) To minimise disruption to the public and users of the Castlereagh Highway.</p> <p>(e) All blasts are monitored</p> <p>To provide the opportunity to update property inspections previously undertaken for the original Pine Dale Coal Mine and respond to any complaints over structural damage claimed to be caused by the mine blasting operations.</p>	<p>(v) Procedures in place to respond to and assess any claims with respect to blasting induced damages.</p> <p>(vi) Any complaints regarding blasting-induced damage are assessed in a timely manner.</p> <p>(vii) All blasts are monitored in accordance with the approved Blast Management Plan with any blast exceedance reported to OEH.</p> <p>(viii) Details of all blasts are recorded and no blasts occur outside the approved hours of 10:00am to 3:00pm Monday to Friday or more than once on any given day (unless approved by DoP&I).</p> <p>(ix) Blast monitoring results are presented in each AEMR and compliance reported in Environment Protection Licence annual returns.</p>
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NOISE

The noise impacts of the mine at all non-project related residences are predicted to be compliant with the applicable noise criteria within Project Approval 10_0041 except during the final landform shaping activities within Mining Area C where a slight noise exceedance at Residences 2 (north and south) is predicted. It is also recognised that, whilst operational noise will be compliant at other residences, operations may still be audible.

The applicable criteria for noise generated by the mine operations, as specified by *Schedule 3 Conditions 1, 2 and 3* of PA 10_0041 are shown in **Table 5.5**.

Table 5.5
Project Noise Criteria

<i>Location</i>		<i>Day¹</i> <i>L_{Aeq (15 min)} dB(A)</i>	<i>Evening¹</i> <i>L_{Aeq (15 min)} dB(A)</i>
Operational Criteria			
Residences 18, 32 and 33		42	39
Residences 20-23, 25 and 27-29		42	36
Residences 8, 10-12 and 14		42	35
Residences 2, 5-7 and 35		35	35
All other residences		35	35
During construction and removal of the amenity bund	Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33	46	N/A
Noise Treatment Criteria			
Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33		44	42
Residences 2, 5-7 and 35		40	38
All other residences		38	38
Noise Acquisition Criteria			
Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33		47	44
Residences 2, 5-7 and 35		43	41
All other residences		41	41
¹ Day: 7:00am to 6:00pm, Evening: 6:00pm to 10:00pm			

Schedule 3 Condition 4 of PA 10_0041 also specifies that all reasonable and feasible measures are implemented to ensure that traffic noise generated by the project does not exceed $60L_{Aeq(15\text{ hour})}dB(A)$ from the Castlereagh Highway.

A Noise Management Plan has been prepared in accordance with *Schedule 4 Condition 7* of PA 10_0041. The Noise Management Plan outlines the noise controls that will be implemented and a noise monitoring program to verify compliance with the applicable noise criteria. Noise monitoring locations are shown on **Figure EMS5**.

As mining activities have now ceased no potential adverse noise impacts are anticipated during the Care and Maintenance term. There are limited potential impacts for noise and any noise generated from Pine Dale would be related to maintenance and rehabilitation activities. The current Noise Management Plan in accordance with EPL 4911, including quarterly attended noise monitoring, will remain in place for the duration of the care and maintenance term.

Table 5.6 presents the objectives and key performance outcomes for noise.

**Table 5.6
Objectives and Key Performance Outcomes – Noise**

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To manage the mining operations to minimise noise and ensure emissions satisfy the nominated criteria under all nominated conditions.	(i) Noise management in accordance with the noise management controls outlined within the Noise Management Plan.
(b) To prepare a Noise Management Plan outlining noise controls and including a noise monitoring program.	(ii) All earthmoving equipment is fitted with broadband (frequency modulated) reversing beepers or alternative safety devices (eg. reversing cameras).
(c) To monitor construction and operational noise in accordance with the noise monitoring program to demonstrate compliance.	(iii) Monitoring undertaken in accordance with the noise monitoring program.
(d) To keep the local community and regulators informed and to respond quickly and effectively to issues and complaints in accordance with the Noise Management Plan.	(iv) Noise emissions are compliant with the conditions of PA 10_0041.
	(v) The receipt of valid noise-related complaints is eliminated or minimised.
	(vi) Monitoring results are included in the AEMR.
	(vii) Any issues arising are managed in accordance with the complaints management section of the Noise Management Plan and the EMS.
	(viii) All roads within the mine are regularly maintained to limit noise impacts.
	(ix) Strict adherence to hours of operations, including transport activities.
	(x) Open dialogue with neighbours and the local community to ensure community satisfaction.

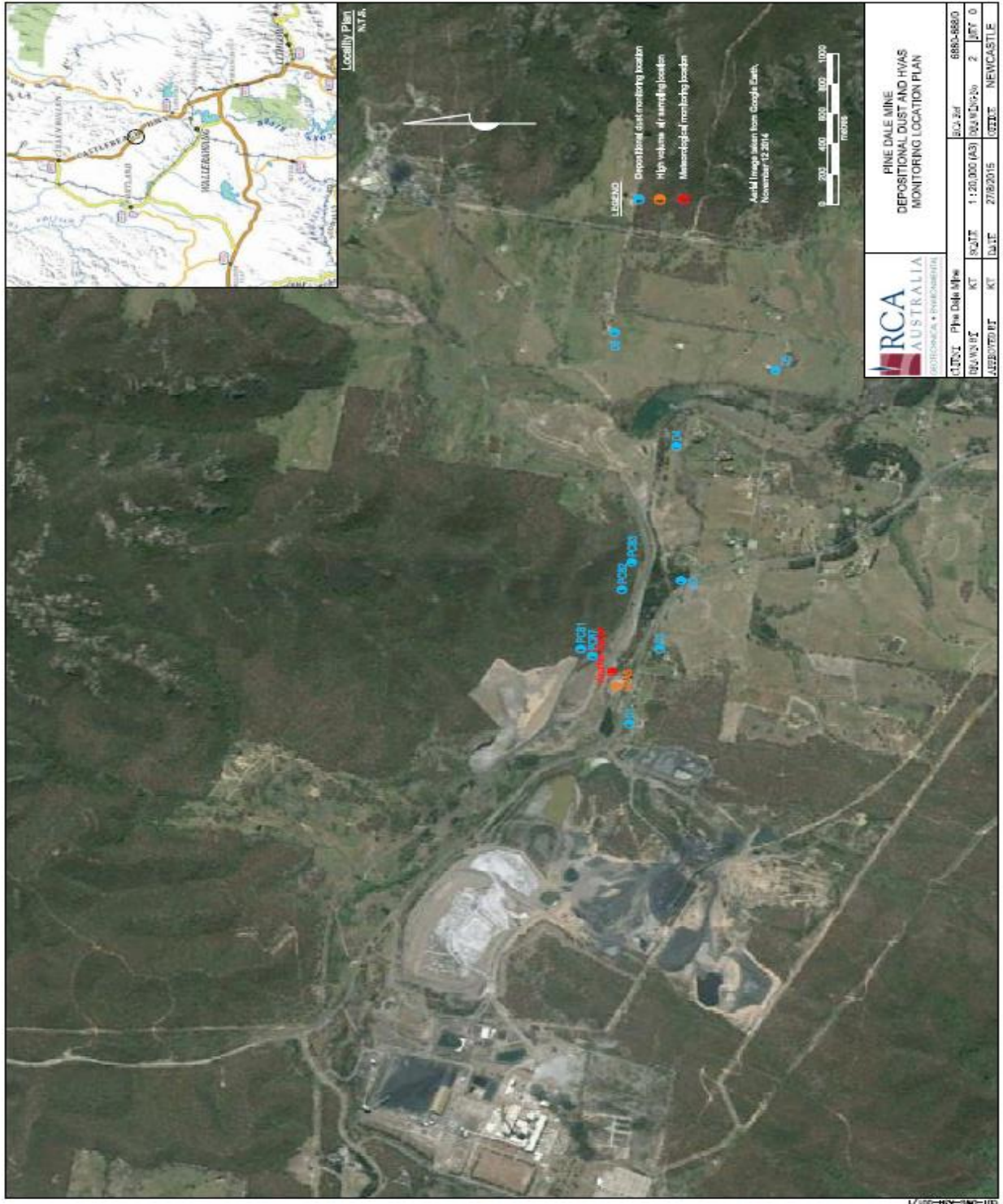
5.6 AIR QUALITY

Modelling of air quality impacts indicates that deposited dust, total suspended particulates and PM₁₀ levels would remain below applicable air quality criteria at all surrounding residences. The applicable criteria for air quality as specified by *Schedule 3 Conditions 18 and 19* of PA 10_0041 are shown in **Table 5.7**.

**Table 5.7
Air Quality Criteria**

Air Quality Indicator	Averaging Period	Maximum Increase	Maximum Level
Operational Criteria			
Deposited dust	Annual	2g/m ² /month	4g/m ² /month
TSP	Annual	-	90µg/m ³
PM ₁₀	24 hour	-	50µg/m ^{3*}
	Annual	-	30µg/m ³
Acquisition Criteria			
Deposited dust	Annual	2g/m ² /month	4g/m ² /month
TSP	Annual	-	90µg/m ³
PM ₁₀	24 hour	-	50µg/m ^{3#}
	24 hour	-	150 µg/m ^{3*}
	Annual	-	30µg/m ³
* Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to other sources)			
# Incremental impact (i.e. incremental increase in concentrations due to the project on its own)			

Figure EMS5 Environmental Monitoring Locations
A4 Colour



An Air Quality and Greenhouse Gas Management Plan has been prepared in accordance with *Schedule 4 Condition 21* of PA 10_0041. The Air Quality and Greenhouse Gas Management Plan outlines the air quality controls that will be implemented and an air quality monitoring program to verify compliance with the applicable air quality criteria. Air quality monitoring locations are shown on **Figure EMS5**.

As mining activities have now ceased no potential adverse air quality impacts are anticipated during the Care and Maintenance term. The risk of air quality impacts from Pine Dale are considered to be very low. Nevertheless, Pine Dale mine will continue to monitor air quality as detailed in the Air Quality and Greenhouse Gas Management Plan including quarterly attended monitoring will remain in place for the duration of the care and maintenance term.

Table 5.8 presents the objectives and key performance outcomes for air quality.

Table 5.8
Objectives and Key Performance Outcomes – Air Quality

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To minimise air quality impacts on local residents and land users.	(i) Air quality management in accordance with air quality controls outlined within the Air Quality and Greenhouse Gas Management Plan.
(b) Visible air pollution and fume emissions are minimised.	(ii) A network of environmental monitoring stations is in place and utilised to assess operational performance.
(c) To ensure the results of all air quality monitoring are within the applicable air quality criteria.	(iii) Activities that generate dust are managed such that licence and approval limits are met.
(d) To minimise dust impacts on motorists on local roads.	(iv) Measures such as water application and progressive rehabilitation are in place to reduce the potential for wind erosion.
(e) To keep the local residents and community informed and respond quickly to any issues or complaints raised.	(v) Monitoring is consistent with the Air Quality and Greenhouse Gas Management Plan and undertaken in accordance with the relevant Australian Standards.
(f) To establish an effective meteorological monitoring system.	(vi) Monitoring data provided to landowners / residents where air quality criteria are not satisfied.
(g) Greenhouse gas emissions are minimised consistent with operational practicalities.	(vii) Results and analyses of air quality monitoring are included in each AEMR.
	(viii) Issues arising are managed in accordance with the complaints management section of the Air Quality and Greenhouse Gas Management Plan and EMS.

5.7 ABORIGINAL HERITAGE

Archaeological investigations undertaken during the preparation of the *Environmental Assessment* did not identify any cultural heritage sites within the Yarraboldy Extension Area.

Though no Aboriginal sites or relics were found an Aboriginal Heritage Management Plan has been prepared in accordance with *Schedule 3 Condition 32* of PA 10_0041 and includes a:

- program for the recording, salvage and surface collection of any Aboriginal objects/sites that may be encountered within the Yarraboldy Extension Area;

- description of the measures that would be implemented if any Aboriginal skeletal remains are discovered during the project; and
- protocol for the ongoing consultation and involvement of the Aboriginal community in the conservation and management of the Aboriginal heritage of any objects/sites that may be found.

Table 5.9 presents the objectives of Aboriginal heritage management along with the key performance outcomes.

**Table 5.9
Objectives and Key Performance Outcomes – Aboriginal Heritage**

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To protect and preserve any Aboriginal heritage sites should they be discovered within the Yarraboldy Extension Area.	(i) Implementation of the Aboriginal Heritage Management Plan.

5.8 VISIBILITY

Views of the Yarraboldy Extension Area will be possible from surrounding local vantage points, particularly from the southeast, south and southwest.

The following visual controls will be implemented to reduce potential adverse impacts upon visual amenity.

- Construction of an Amenity Bund to an elevation of 935m AHD and grassing to provide a visual barrier of the Yarraboldy Extension Area.
- The mine will be progressively rehabilitated, where possible, so that non-vegetated areas will be minimised.
- The mine will be maintained in a clean and tidy condition at all times.
- Air quality controls will be implemented to reduce visible dust.
- Floodlights or other required lighting will be positioned and directed so as to minimise off-site light emissions. When lighting is not required for operations or maintenance, it will be switched off.

Table 5.10 presents the objectives and key performance outcomes for visibility.

Table 5.10
Objectives and Key Performance Outcomes – Visibility

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To design and construct the mine infrastructure in a manner that minimises visual contrasts.</p> <p>(b) To maintain the site in a clean and tidy condition.</p> <p>(c) To minimise visible dust generation and deposition.</p> <p>(d) To use bunding to minimise the visibility of the Yarraboldy Extension area.</p> <p>(e) To ensure that all external lighting associated with the mine complies with Australian Standard AS4282 1997 – Control of Obtrusive Effects of Outdoor Lighting.</p> <p>(f) To improve the long-term visual amenity of the Yarraboldy Extension Area through rehabilitation of historic mining activities.</p>	<p>(i) The amenity bund is established as outlined within the <i>Environmental Assessment</i>.</p> <p>(ii) The mine is organised, clean and tidy at all times.</p> <p>(iii) Equipment / facility lighting obscured or directed away from residences / roadways.</p> <p>(iv) Rehabilitation is undertaken progressively in accordance with the Mining Operations Plan and Rehabilitation Management Plan.</p> <p>(v) General performance is reported in AEMR.</p> <p>(vi) Issues arising relating to lighting and / or visual amenity are managed in accordance with the complaints management section of the EMS (see Section 6.2).</p>

6. INFORMATION DISSEMINATION, COMPLAINTS MANAGEMENT AND DISPUTE RESOLUTION

6.1 INFORMATION DISSEMINATION

The Company is committed to a policy of community membership and will continue to maintain an open door policy for local residents, land owners and the broader community. Information will also be disseminated to the community informing them of mine's progress. This will be achieved by both formal and informal means including the following.

1) **The Community Consultative Committee (CCC).**

The CCC will include a minimum of three representatives of the local community and other stakeholders and one representative from Lithgow City Council who will act as local focal points for the provision of information to, and receipt of comments from, community members. CCC meetings will be held at least twice during 2011 and annually thereafter.

During meetings, Company representatives will provide advice on the status of site activities, environmental performance and monitoring results, complaints etc. The CCC meetings will also act as a forum for discussion for any mine-related issues brought up by members of the community through the CCC representatives, or directly with the Company.

The minutes of the CCC meeting taken by the Company will be available on the Company's website following each meeting.

2) **Annual Environmental Management Report (AEMR)**

Each year, an AEMR will be prepared which will:

- a) describe the works carried out in the last 12 months and those that will be carried out in the next 12 months;
- b) include a summary of the monitoring results for the project during the past year;
- c) include an analysis of the monitoring results against the relevant:
 - impact assessment criteria / limits;
 - monitoring results from previous years; and
 - predictions in the *Environmental Assessment*;
- d) identify any trends in the monitoring over the life of the project and any discrepancies between predicted and actual impacts;
- e) identify and discuss any non-compliance during the previous year; and
- f) analyse the cause of any discrepancies or non-compliance describe what actions were, or are being, taken to ensure compliance.

The AEMR will be provided to the Department of Planning and Infrastructure, Department of Trade and Investment, Regional Infrastructure and Services, other relevant agencies and the CCC members and made available on the Company's website.

With the acceptance of the Director-General, the AEMR will also satisfy the requirements of the Annual Review outlined in *Schedule 5 Condition 3* of PA 10_0041.

3) **Other Methods**

Other methods of information dissemination would include the following.

- a) Making copies of all approvals, management plans / strategies or monitoring programs, together with the results of independent audits undertaken and a complaints register which is updated monthly publicly available on the Company's website.
- b) Documenting visits by relevant government agencies to inspect the mine / assess the Company's environmental performance, together with the provision of reports or information to government agencies, as requested.
- c) Maintaining regular formal and informal contact with relevant agencies.
- d) Providing reports to relevant authorities in the event of a non-compliance or a potential non-compliance with respect to statutory criteria or guidelines.

6.2 COMPLAINTS RECEIPT AND RESPONSE PROCEDURES

In order to receive, record and respond to any complaints in a timely manner, the Company has established a telephone complaints line for the purpose of receiving complaints from any member of the public in relation to its activities. The complaints line will be operational 24 hours per day, 7 days per week and be publicly advertised. All complaints will be registered in a database and responded to within one business day from the receipt the complaint. The following information will be recorded (where it can be reasonably obtained) in the database.

- The date / time the complaint was made.
- Complainant's name.
- Complainant's telephone number.
- Nature of complaint.

The nature of the response will depend on the nature and source of complaint but will include one or more of the following actions.

1. Liaison with the complainant to ascertain all details and to identify the nature and source of the complaint and provide supplementary details for the log. Details recorded in the log will include:
 - the date and time of the complaint;
 - the method by which the complaint was made;
 - details of the person making the complaint;
 - the nature of the complaint;
 - action taken in relation to the complaint including any follow-up contact; and
 - if no action, the reason why.
2. As appropriate, the initiation of monitoring or other investigations to verify or otherwise the exceedance or non-compliance with approval or licence condition(s).
3. Initiation of appropriate changes in operating practices or procedures.
4. Conducting a follow-up interview with the resident to determine their level of satisfaction with the response and the resultant outcome.

A copy of the complaint report sheet will be supplied to the complainant, if requested. The complaints database will be updated on the Company's website monthly and a summary of the complaints received in each 12 month period will also be included in each AEMR.

6.3 DISPUTE RESOLUTION

In the event that any complainant does not consider that the response or reactions adequately address their concerns, the following procedure will be adopted.

1. A meeting will be convened with the Manager Mining Engineering or other senior Company personnel to seek resolution of the matter. The complainant will be provided with a written response, detailing the results of investigations undertaken and the agreed actions to be taken regarding the measures to be implemented.
2. On implementation of the nominated measures, a further meeting will be convened to seek advice of satisfaction, or otherwise, regarding the outcomes.

If, after 21 days following Steps 1 and 2, the complainant believes the matter remains unresolved and no further agreement can be reached as to additional measures to be undertaken, the matter will be referred to DoP&I for independent review.

7. RESPONSE TO NON-COMPLIANCES

Compliance with all approvals, plans and procedures will be the responsibility of all personnel employed on or in association with the mine. Programs to identify and promote responsibilities will be developed through promotion of project ownership under the direction of the Manager Mining Engineering.

The Manager Mining Engineering or other senior Company personnel will undertake regular inspections, internal audits and initiate directions identifying any remediation / rectification work required, and areas of actual or potential non-compliance, with all directions provided to the relevant party in writing and / or diarised.

The DPE and relevant authorities will be notified as soon as practicable in the event of any notifiable non-compliance with approvals (eg. exceedance of performance criteria) or licences or incidents that cause or may cause material harm to the environment. In accordance with *Schedule 5 Condition 6* of PA 10_0041, within 7 days of the date of the incident the Department and relevant authorities will be provided with a written report that:

- a) describes the date, time, and nature of the exceedance / incident;
- b) identifies the cause (or likely cause) of the exceedance / incident;
- c) describes what action has been taken to date; and
- d) describes the proposed measures to address the exceedance / incident.

Any non-compliance with the requirements of the mine's Environment Protection Licence No. 4911 will also be reported on each Annual Licence Return.

A review of compliance with all conditions of PA 10_0041 will be undertaken during the preparation of each AEMR. Additionally, in accordance with *Schedule 5 Condition 8* of PA 10_0041, an independent environmental audit will be undertaken by end December 2011 and August 2013. A copy of the independent audit will be provided to DPE and other relevant agencies within 6 weeks of completion of the audit together with response to any recommendations within the audit. A copy of all publicly available documents will be placed on the Company's website.

8. EMERGENCY RESPONSE

As part of routine mine operations, standard risk assessments will be undertaken to identify the risk probability and consequences of the proposed activities and aspects of the operation, the adequacy of existing controls to contain the hazards and, where identified as deficient, propose additional controls to further manage or eliminate hazards.

The Enhance Place Pine Dale Fire and Emergency System will incorporate Emergency Procedures which, though primarily prepared in accordance with OH&S requirements, will extend to environmental emergencies.

Although specific procedures will be developed for individual situations, all will incorporate three basic steps, i.e.:

1. notification of the emergency (internal and / or external);
2. protection of personnel as a first priority; and
3. protection of the environment, plant and equipment.

Initially each of steps 2) and 3) will use internal resources, with assistance from external resources called upon, as and when necessary.

Any emergency situations or incidents which do or could potentially have caused environmental harm, will be reported to the relevant authorities as detailed in the Pine Dale Mine Pollution Response Management Plan (PIRMP)

All site personnel will be trained in situation recognition and emergency response procedures, with regular updates through toolbox talks.

9. REVIEW AND IMPROVEMENT

In accordance with *Schedule 5 Condition 4*, the review and revision, if required, of the EMS is to be undertaken within 3 months of the completion of each AEMR, independent audit or a non-compliance (see Section 7) and will consider:

- the review of any audit findings;
- the results of monitoring programs;
- achievement of objectives and key performance outcomes;
- the relevance of the objectives and key performance outcomes to current and future conditions; and
- any information provided by and/or concerns of stakeholders.

If any significant changes are made to the EMS as part of one of these reviews, the revised EMS will be provided to the DoP&I for approval.

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Appendices

- Appendix 1 Project Approval 10_0041
- Appendix 2 Program for Implementation of Project
Approval 10_0041 Conditions
- Appendix 3 Summary of Environmental Monitoring

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Appendix 1

Project Approval 10_0041

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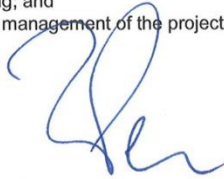
Project Approval

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

As delegate of the Minister for Planning, I approve the project application referred to in Schedule 1, subject to the conditions in Schedules 2 to 5.

These conditions are required to:

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



Richard Pearson
Deputy Director-General

Sydney

20th February

2011

SCHEDULE 1

Application Number:	10_0041
Proponent:	Enhance Place Pty Limited
Approval Authority:	Minister for Planning
Land:	See Appendix 1
Project:	Pine Dale Coal Mine – Yarraboldy Extension

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DEFINITIONS

Annual review	The review required by Condition 3 of Schedule 5
Approved mine plan	The mine plan depicted in the figure in Appendix 2
BCA	Building Code of Australia
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; and pipeline, water, sewer, telephone, gas or other service main
CCC	Community Consultative Committee
Conditions of this approval	Conditions contained in Schedules 2 to 5 inclusive
Council	Lithgow City Council
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays
DECCW	Department of Environment, Climate Change and Water
Department	Department of Planning
Director-General	Director-General of the Department, or delegate
EA	Environmental assessment titled <i>Pine Dale Coal Mine – Yarraboldy Extension</i> , dated August 2010; associated response to submissions titled <i>Pine Dale Coal Mine – Yarraboldy Extension – Response to Public Submissions</i> , dated October 2010 and <i>Pine Dale Coal Mine – Yarraboldy Extension – Response to Government Agency Submissions</i> dated October 2010 and amended December 2010; and correspondence to the Department of Planning, dated 6 December 2010
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environment Protection Licence issued under <i>POEO Act</i>
Evening	The period between 6pm to 8pm Monday to Saturday, excluding public holidays
Feasible	Feasible relates to engineering considerations and what is practical to build or carry out
Heritage Branch	Heritage Branch of the Department
Incident	A set of circumstances that causes or threatens to cause material harm to the environment, and/or breaches or exceeds the limits or performance measures/criteria in this approval
I&I NSW	Department of Industry and Investment, trading as Industry & Investment NSW
Land	In general, the definition of land is consistent with the definition in the EP&A Act. However, in relation to the noise and air quality conditions in Schedules 3 and 4 it means the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval
Material harm to the environment	Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
Mine water	Water that accumulates within active mining areas, coal reject emplacement areas, tailings dams and infrastructure areas, synonymous with dirty water
Mining operations	Includes the removal of overburden and the extraction, processing, handling, storage and transportation of coal
Minister	Minister for Planning, or delegate
Minor	Small in quantity, size and degree
Mitigation	Activities associated with reducing the impacts of the project
Negligible	Small and unimportant, such as to be not worth considering
Night	The period from 8pm to 7am on Monday to Saturday, and 8pm to 8am on Sundays and Public Holidays
NOW	NSW Office of Water
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Private Haul Road	Road owned by Coal Link Pty Limited and indicated in Appendix 2.
Privately-owned land	Land that is not owned by a public agency or a mining company (or its subsidiary)
Project	The development described in the EA
Proponent	Enhance Place Pty Limited, or its successors
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements
Reasonable costs	The costs agreed between the Department and the Proponent for obtaining independent experts to review the adequacy of any aspects of the project
Rehabilitation	The treatment or management of land disturbed by the project for the purpose of establishing a safe, stable and non-polluting environment, and includes remediation
ROM	Run-of-mine
RTA	Roads and Traffic Authority

Site
Statement of commitments

The land to which the project application applies, as listed in Appendix 1
The Proponent's commitments in Appendix 4

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

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

TERMS OF APPROVAL

2. The Proponent shall carry out the project generally in accordance with the:
 - (a) EA;
 - (b) statement of commitments; and
 - (c) conditions of this approval.

Notes:

- *The general layout of the project is shown in Appendix 2; and*
- *The statement of commitments is reproduced in Appendix 4.*

3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.
4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
 - (a) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained in these documents.

LIMITS ON APPROVAL

5. The Proponent may carry out mining operations on the site until 31 August 2013.

Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of both the Director-General and the Director-General of I&I NSW. Consequently, this approval will continue to apply in all other respects - other than the right to conduct mining operations - until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.

6. The Proponent shall not:
 - (a) extract more than 350 000 tonnes of ROM coal from the site in a calendar year;
 - (b) extract more than 800 000 tonnes of ROM coal from the site over the life of the project;
 - (c) export more than 350 000 tonnes of coal from the site in a calendar year; and
 - (d) import any ash onto the site.

SURRENDER OF CONSENTS

7. By the end of July 2011, or as otherwise agreed by the Director-General, the Proponent shall surrender the existing development consent (461-04) for the site in accordance with Section 104A of the EP&A Act.
8. Prior to the surrender of the consent referred to in Condition 7 above, the conditions of this approval shall prevail to the extent of any inconsistency with the conditions of this consent.

STRUCTURAL ADEQUACY

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

Notes:

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

DEMOLITION

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

OPERATION OF PLANT AND EQUIPMENT

11. The Proponent shall ensure that all the plant and equipment used on site, or to transport coal from the site, is:
- (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM

12. With the approval of the Director-General, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis.

Note: While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing operations of the site are covered by suitable strategies, plans or programs at all times.

13. The Proponent shall continue to implement the existing strategies, plans or programs that apply to any development on site until they are replaced by an equivalent strategy, plan or program approved under this approval.

COUNCIL CONTRIBUTIONS

15. Prior to the production of saleable coal on site, the Proponent shall pay Council \$79,800 (GST inclusive) for the provision of community infrastructure and services.
-

**SCHEDULE 3
ENVIRONMENTAL PERFORMANCE CONDITIONS**

NOISE

Noise Criteria

- The Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 1 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.

Table 1: Noise Criteria dB(A)

Location		Day	Evening
		$L_{Aeq} (15 \text{ min})$	$L_{Aeq} (15 \text{ min})$
Residences 18, 32 and 33		42	39
Residences 20-23, 25 and 27-29		42	36
Residences 8, 10-12 and 14		42	35
Residences 2, 5-7 and 35		35	35
All other residences		35	35
During construction and removal of the amenity bund	Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33	46	N/A

Notes:

- To identify the locations referred to in Table 1, see figures in Appendix 1;
- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.

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

Noise Acquisition Criteria

- If the noise generated by the project exceeds the criteria in Table 2 at any residence on privately-owned land or on more than 25 percent of any privately-owned land, then upon receiving a written request for acquisition from the landowner, the Proponent shall acquire the land in accordance with the procedures in Conditions 6 - 7 of Schedule 4.

Table 2: Noise acquisition criteria dB(A) $L_{Aeq} (15 \text{ min})$

Location	Day	Evening
Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33	47	44
Residences 2, 5-7 and 35	43	41
All other residences	41	41

Notes:

- To identify the locations referred to in Table 2, see figures in Appendix 1;
- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.
- For this condition to apply, the exceedances of the criteria must be systemic.

Additional Noise Mitigation Measures

- If noise generated by the project is greater than or equal to the noise levels in Table 3 at any residence on privately owned land, the Proponent shall implement additional noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner.

If within 3 months of receiving this request from the owner, the Proponent 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 Director-General for resolution.

Table 3: Noise treatment criteria dB(A) $L_{Aeq}(15min)$

Location	Day	Evening
Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33	44	42
Residences 2, 5-7 and 35	40	38
All other residences	38	38

Notes:

- To identify the locations referred to in Table 3, see figures in Appendix 1;
- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.
- For this condition to apply, the exceedances of the criteria must be systemic.

Traffic Noise Impact Assessment Criteria

4. The Proponent shall take all reasonable and feasible measures to ensure that the traffic noise generated by the project does not exceed the traffic noise impact assessment criteria in Table 4.

Table 4: Traffic noise impact assessment criteria dB(A)

Road	Day $L_{Aeq15\text{ hour}}$
Castlereagh Highway (SH18)	60

Note:

- Traffic noise generated by the project is to be measured in accordance with the relevant procedures in the DECCW's Environmental Criteria for Road Traffic Noise.

Operating Hours

5. Apart from equipment maintenance activities, the Proponent may only carry out development on site between 7 am and 6 pm from Monday to Saturday, excluding public holidays. Equipment maintenance activities may be carried out on site between the hours of 7 am to 10 pm from Monday to Saturday and between 9 am to 4 pm on Sundays, excluding public holidays.

Note: Condition 9 of Schedule 3 specifies blasting hours and Condition 34 of Schedule 3 specifies product transportation hours.

Operating Conditions

6. The Proponent shall:
- implement best practice noise management, including all reasonable and feasible noise mitigation measures to minimise the operational and road traffic noise generated by the project;
 - investigate ways to reduce the noise generated by the project;
 - report on these investigations and the implementation and effectiveness of these measures in the Annual Review,
- to the satisfaction of the Director-General.

Noise Management Plan

7. The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Director-General. This plan must:
- be prepared in consultation with DECCW and Council, and submitted to the Director-General for approval by the end of April 2011;
 - describe the noise mitigation measures that would be implemented to ensure compliance with the relevant conditions of this approval, including measures that would be implemented during the construction of the amenity bund;
 - include a noise monitoring program that:
 - uses attended monitoring to evaluate the performance of the project; and
 - includes a protocol for determining exceedances of the relevant conditions of this approval.

BLASTING

Blasting Criteria

8. The Proponent shall ensure that the blasting on site does not cause exceedances of the criteria in Table 5.

Table 5: Blast impact criteria

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

Blasting Hours

9. The Proponent shall only carry out blasting on site between 10am and 3pm Monday to Friday inclusive. No blasting is allowed on weekends or public holidays, or at any other time without the written approval of Director-General.

Blasting Frequency

10. The Proponent shall not carry out more than 1 blast a day on site, unless an additional blast is required following a blast misfire.

Note: A blast may involve a number of explosions within a short period, typically less than two minutes.

Property Inspections

11. If the Proponent receives a written request from the owner of any privately-owned land within 2 kilometres of the approved open cut mining pit on site for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, or to have a previous property inspection report updated, then within 2 months of receiving this request the Proponent shall:
- commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to:
 - establish the baseline condition of the buildings and/or structures on the land or update the previous property inspection report; and
 - identify any measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and
 - give the landowner a copy of the new or updated property inspection report.

Property Investigations

12. If the owner of any privately-owned land within 2 kilometres of the approved open cut mining pit on site claims that the buildings and/or structures on his/her land have been damaged as a result of blasting on site, then within 2 months of receiving this claim the Proponent shall:
- commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to investigate the claim; and
 - give the landowner a copy of the property investigation report.

If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damages to the satisfaction of the Director-General.

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

Operating Conditions

13. The Proponent shall
- implement best blasting management practice on site to:
 - protect the safety of people and livestock in the surrounding area;
 - protect public or private property in the surrounding area; and
 - minimise the dust and fume emissions of the blasting;
 - co-ordinate the blasting on site with the of blasting all mines operating in the vicinity of the site to minimise the cumulative blasting impacts of the mines; and
 - operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site,
- to the satisfaction of the Director-General.

14. The Proponent shall not carry out blasting on site within 500 metres of any privately-owned land or any public road unless the Proponent has:
- demonstrated to the satisfaction of the Director-General that the blasting can be carried out without compromising the safety of people, or damaging buildings and/or structures; and
 - updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the land or public road.

Blast Management Plan

15. The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Director-General. This plan must:
- be prepared in consultation with DECCW and Council, and submitted to the Director-General for approval prior to undertaking any blasting on-site;
 - describe the blast mitigation measures that would be implemented to ensure compliance with the relevant conditions of this approval;
 - describe the measures that would be implemented to ensure the public can get up-to-date information on the proposed blasting schedule on site;
 - include a blast monitoring program to evaluate the performance of the project; and
 - include a protocol that has been prepared in consultation with the owners of all other operating open-cut mines within 2 kilometres of the site for minimising and managing the cumulative blasting impacts of the mines.

AIR QUALITY & GREENHOUSE GAS

Odour

16. The Proponent shall ensure that no offensive odours are emitted from the site, as defined under the POEO Act.

Greenhouse Gas Emissions

17. The Proponent shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site to the satisfaction of the Director-General.

Air Quality Criteria

18. The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that the particulate emissions generated by the project do not exceed the criteria listed in Tables 6, 7 and 8 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.

Table 6: Long term criteria for particulate matter

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

Table 7: Short term criterion for particulate matter

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

Table 8: Long term criteria for deposited dust

<i>Pollutant</i>	<i>Averaging period</i>	<i>Maximum increase in deposited dust level</i>	<i>Maximum total^f deposited dust level</i>
^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month

Notes for Tables 6-8:

- ^aTotal impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to other sources);
- ^bIncremental impact (i.e. incremental increase in concentrations due to the project on its own);
- ^cDeposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and
- ^dExcludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agree to by the Director-General in consultation with DECCW.

Air Quality Acquisition Criteria

19. If the particulate matter emissions generated by the project exceed the criteria in Tables 9, 10, and 11 at any residence on privately-owned land or on more than 25 percent of any privately owned land, then upon receiving a written request for acquisition from the landowner the Proponent shall acquire the land in accordance with the procedures in Conditions 6 - 7 of Schedule 4.

Table 9: Long term acquisition criteria for particulate matter

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

Table 10: Short term acquisition criteria for particulate matter

Pollutant	Averaging period	^d Criterion
Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 150 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	24 hour	^b 50 µg/m ³

Table 11: Long term acquisition criteria for deposited dust

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level
^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month

Notes for Tables 9 - 11:

- ^aTotal impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to other sources);
- ^bIncremental impact (i.e. incremental increase in concentrations due to the project on its own);
- ^cDeposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and
- ^dExcludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agree to by the Director-General in consultation with DECCW.

Operating Conditions

20. The Proponent shall:
- implement best practice air quality management on site, including all reasonable and feasible measures to minimise the off-site odour, fume and dust emissions generated by the project, including those generated by any spontaneous combustion on site; and
 - minimise any visible air pollution generated by the project; and
 - regularly assess the air quality monitoring and meteorological forecasting data, and relocate, modify and/or stop operations on site to ensure compliance with the relevant conditions of this approval, to the satisfaction of the Director-General.

Air Quality & Greenhouse Gas Management Plan

21. The Proponent shall prepare and implement a detailed Air Quality & Greenhouse Gas Management Plan for the project to the satisfaction of the Director-General. This plan must:
- be prepared in consultation with DECCW and Council, and submitted to the Director-General for approval by the end of April 2011;
 - describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval; and
 - include an air quality monitoring program, that uses a combination high volume samplers and dust deposition gauges to evaluate the performance of the project, and includes a protocol for determining exceedances with the relevant conditions of this approval.

METEOROLOGICAL MONITORING

22. During the life of the project, the Proponent shall ensure that there is a suitable meteorological station operating in the vicinity of the site that:
- complies with the requirements in the *Approved Methods for Sampling of Air Pollutants in New South Wales* guideline; and
 - is capable of continuously recording wind speed and direction, temperature and rainfall.

SOIL & WATER

Water Discharges

23. The Proponent shall ensure that all surface water discharges from the site comply with the discharge limits (both volume and quality) set for the project in any EPL.

Baseflow Offsets

24. The Proponent shall offset the loss of any baseflow to the surrounding watercourses and/or associated creeks caused by the project to the satisfaction of the Director-General.

Notes:

- This condition does not apply if the baseflow losses are negligible.*
- Offsets should be provided via the retirement of adequate water entitlements to account for the loss attributable to the project.*

Compensatory Water Supply

25. The Proponent shall provide a compensatory water supply to any owner of privately-owned land whose water entitlements are adversely impacted (other than an impact that is negligible) as a result of the project, in consultation with NOW, and to the satisfaction of the Director-General.

The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the project. Equivalent water supply must be provided (at least on an interim basis) within 24 hours of the loss being identified.

If the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.

If the Proponent is unable to provide an alternative long-term supply of water, then the Proponent shall provide alternative compensation to the satisfaction of the Director-General.

Baseline Water Monitoring Plan

26. The Proponent shall prepare and implement a Baseline Water Monitoring Plan for the project to the satisfaction of the Director-General. This plan must:
- be prepared in consultation with DECCW and NOW by suitably qualified and experienced persons whose appointment has been approved by the Director-General;
 - be submitted to the Director-General for approval by the end of February 2011; and
 - include programs for:
 - consultation with other industries in the vicinity of the mine to gather existing surface water data;
 - intensive baseline monitoring to be conducted for the first 6 months of site establishment to provide detailed data on surface water flows/levels and quality in creeks and other waterbodies that could be affected by the project (including the Neubecks Creek, the Blue Lake and the Coxs River).

Water Management Plan

27. The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Director-General. This plan must be prepared in consultation with DECCW and NOW by suitably qualified and experienced persons whose appointment has been approved by the Director-General, and submitted to the Director-General for approval by the end of April 2011.

In addition to the standard requirements for management plans (see Condition 2 of Schedule 5), this plan must include:

- (a) a Site Water Balance that:
- includes details of:
 - sources and security of water supply;
 - water use on site; and
 - reporting procedures; and
 - describes what measures would be implemented to minimise potable water use on site.
- (b) a Surface Water Management Plan, that includes:
- a detailed description of the water management system on site, including the:
 - clean water diversion systems;
 - erosion and sediment controls; and
 - water storages;
 - a plan for identifying, extracting, handling, and the long-term storage of potentially acid forming materials on site;
 - detailed plans, including design objectives and performance criteria, for:
 - reinstatement of drainage lines on the rehabilitated areas of the site; and
 - control of any potential water pollution from rehabilitated areas of the site;
 - performance criteria for the following, including trigger levels for investigating any potentially adverse impacts on:
 - the water management system;
 - surface water quality in creeks and other water bodies that could potentially be affected by the project (including Neubecks Creek, the Blue Lake and Coxs River);
 - the stream health, vegetation health and channel stability of water bodies that could potentially be affected by the project
 - a program to monitor:
 - the effectiveness of the water management system;
 - surface water flows and quality in creeks and other water bodies that could potentially be affected by the project;
 - the stream health, riparian vegetation health and channel stability of creeks and other water bodies that could potentially be affected by the project;
 - a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; and
- (c) a Groundwater Management Plan, which includes:
- groundwater assessment criteria, including trigger levels for investigating and potentially adverse groundwater impacts;
 - a program to monitor:
 - groundwater inflows to the open cut mining operation
 - the impacts of the project on;
 - baseflows to Neubecks Creek;
 - any groundwater bores on privately owned land; and
 - a program to validate the groundwater model for the project, and calibrate it to site specific conditions; and
 - a plan to respond to any exceedances of the performance criteria, and offset the loss of any baseflow to Neubecks Creek caused by the project.

BIODIVERSITY

Biodiversity Offset

28. By the end of February 2012, the Proponent shall prepare a Biodiversity Offset Strategy for the project to the satisfaction of the Director-General. This strategy must:
- (a) be prepared in consultation with DECCW; and
- (b) provide for the long term conservation of at least 30 hectares of native vegetation in the region to offset the vegetation clearing associated with the project.
29. Within 6 months of the approval of the Biodiversity Offset Strategy (referred to in Condition 28 above), the Proponent shall make suitable arrangements to provide appropriate long-term security for the offset area in the strategy to the satisfaction of the Director-General.

Biodiversity Management Plan

30. The Proponent shall prepare and implement a Biodiversity Management Plan for the project to the satisfaction of the Director-General. This plan must:
- (a) be prepared in consultation with DECCW, and submitted to the Director-General for approval by the end of February 2012;
 - (b) include:
 - detailed performance and completion criteria for the implementation of the biodiversity offset strategy;
 - a detailed description of the measures that would be implemented to manage the remnant vegetation and habitat within the offset area, and ensure the biodiversity offset strategy is suitably implemented, including the procedures for:
 - revegetating or regenerating parts of the offset area, if required;
 - managing or improving the quality of existing vegetation in the offset area;
 - controlling weeds, feral pests and access; and
 - managing bushfires;
 - details of who would be responsible for monitoring, reviewing and implementing the plan.

Conservation Bond

31. Within 3 months of the approval of the Biodiversity Management Plan, the Proponent shall lodge a conservation bond with the Department to ensure that the Biodiversity Offset Strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan. The sum of the bond shall cover the full cost of implementing the Biodiversity Offset Strategy and be verified by a suitably qualified rehabilitation expert or quantity surveyor.

If the Biodiversity Offset Strategy is implemented to the satisfaction of the Director-General, the Director-General will release the conservation bond.

If the offset strategy is not implemented to the satisfaction of the Director-General, the Director-general will call in all or part of the conservation bond, and arrange for the satisfactory implementation of the Biodiversity Offset Strategy.

HERITAGE

Aboriginal Heritage Management Plan

32. The Proponent shall prepare and implement an Aboriginal Heritage Management Plan for the project to the satisfaction of the Director-General. The Plan must:
- (a) be prepared in consultation with DECCW and the Aboriginal community;
 - (b) be submitted to the Director-General for approval prior to carrying out any open cut mining operations under this approval; and
 - (c) include a:
 - program for the recording, salvage and surface collection of any Aboriginal objects/sites that may be encountered within the project area;
 - description of the measures that would be implemented if any Aboriginal skeletal remains are discovered during the project; and
 - protocol for the ongoing consultation and involvement of the Aboriginal community in the conservation and management of the Aboriginal heritage of the objects/sites.

TRANSPORT

Monitoring of Coal Transport

33. The Proponent shall:
- (a) keep accurate records of the:
 - amount of coal transported from the site (on a monthly basis); and
 - the date and time of loaded truck movements from the site; and
 - (b) provide the Director-General with a summary of these truck movements on a quarterly basis.

Operating Conditions

34. The Proponent shall only dispatch coal from the site by road between the hours of 7:00am to 8:00pm Monday to Saturday, excluding public holidays.

Transport Route

35. The Proponent shall ensure that:
- (a) all product coal is transported to the Mt Piper Power Station and the Wallerawang Power Station via the Private Haul Road (ie. Coal Link Road), except in an emergency situation and with the prior written approval of the Director-General;
 - (b) a maximum of 100 000 tonnes of coal product is transported on Castlereagh Highway (SH18) in a calendar year, including a maximum of 30 000 tonnes transported to the east of the site on Castlereagh Highway (SH18) in a calendar year;
 - (c) no transportation of coal via the Castlereagh Highway (SH18) is to occur past school bus stops during times when school buses are operating in the vicinity of the site;
 - (d) no more than 10 coal product trucks per hour (20 movements) enter/exit the site via the Castlereagh Highway (SH18) during the day-time period;
 - (e) no more than 4 coal product trucks per hour (8 movements) enter/exit the site via the Castlereagh Highway (SH18) during the evening period; and
 - (f) no coal product trucks enter/exit the site during the night-time period.

VISUAL

Visual Amenity and Lighting

36. The Proponent shall:
- (a) minimise the visual impacts, and particularly the off-site lighting impacts, of the project;
 - (b) take all practicable measures to further mitigate off-site lighting impacts from the project; and
 - (c) ensure that all external lighting associated with the project complies with *Australian Standard AS4282 (INT) 1995 - Control of Obtrusive Effects of Outdoor Lighting*, to the satisfaction of the Director-General.

Additional Visual Mitigation Measures

37. The Proponent shall construct the amenity bund as described in the EA and rehabilitate all amenity bunds on-site in accordance with Condition 53 below.
38. Upon receiving a written request from the owner of any residence on privately-owned land which has, or would have, significant direct views of the mining operations on site, the Proponent shall implement visual mitigation measures (such as landscaping treatments or vegetation screens) on the land in consultation with the landowner. These measures must be reasonable and feasible, and directed toward minimising the visibility of the mining operations from the residence.

If within 3 months of receiving this request from the owner, the Proponent 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 Director-General for resolution.

WASTE

39. The Proponent shall:
- (a) minimise the waste generated by the project; and
 - (b) ensure that the waste generated by the project is appropriately stored, handled and disposed of, to the satisfaction of the Director-General.
40. The Proponent shall prepare and implement a Waste Management Plan for the project to the satisfaction of the Director-General. This plan must be submitted to the Director-General by the end of April 2011.

BUSHFIRE MANAGEMENT

51. The Proponent shall:
- (a) ensure that the development is suitably equipped to respond to any fires on-site; and
 - (b) assist the emergency services as much as possible if there is a fire on-site during the development.
52. By the end of April 2011, the Proponent shall prepare and implement a Bushfire Management Plan for the site, to the satisfaction of the State Forest in consultation with the local Rural Fire Service.

REHABILITATION

Rehabilitation Objectives

53. The Proponent shall rehabilitate the site to the satisfaction of the Director-General of I&I NSW. This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the EA, however the area to be returned to native woodland and forests vegetation (ie. Class VII land which is consistent with surrounding State Forest lands) must be increased to cover the area marked with cross-hatching on the figure in Appendix 3, to the satisfaction of the Director-General and of I&I NSW.

Progressive Rehabilitation

54. The Proponent shall carry out the rehabilitation of the site progressively, that is, as soon as reasonably practicable following disturbance.

Rehabilitation Management Plan

55. The Proponent shall prepare and implement a Rehabilitation Management Plan for the project to the satisfaction of the Director-General of I&I NSW. This plan must:
- (a) be prepared in consultation with the Department, DECCW, NOW, and the CCC;
 - (b) be prepared in accordance with any relevant I&I NSW guideline;
 - (c) build, to the maximum extent practicable, on the other management plans required under this approval; and
 - (d) be submitted to the Director-General of I&I NSW for approval by the end of July 2011.
-

SCHEDULE 4 ADDITIONAL PROCEDURES

NOTIFICATION OF LANDOWNERS

1. By the end of April 2011, the Proponent shall notify in writing the owners of:
 - (b) any residence on the land listed in Table 3 of Schedule 3 that they are entitled to ask for additional noise mitigation measures to be implemented at their residence at any stage during the project; and
 - (c) any privately-owned land within 2 kilometres of the approved open cut mining pit on site that they are entitled to ask for an inspection to establish the baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated.
2. Within 2 weeks of obtaining monitoring results showing:
 - (a) exceedances of the relevant criteria in Schedule 3, the Proponent shall notify the affected landowners and/or tenants in writing of the exceedance, and provide regular monitoring results to each of these parties until the project is complying with the relevant criteria again;
 - (b) exceedances of the relevant criteria in Table 3 of Schedule 3, the Proponent shall notify in writing the applicable owner that they are entitled to ask for additional noise mitigation measures to be installed at their residence; and
 - (c) exceedances of the relevant air quality criteria in Schedule 3, send the affected landowners and tenants (including the tenants of any mine-owned land) a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time).

INDEPENDENT REVIEW

3. If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Director-General in writing for an independent review of the impacts of the project on his/her land.

If the Director-General is satisfied that an independent review is warranted, then within 2 months of the Director-General's decision the Proponent shall:

- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to:
 - consult with the landowner to determine his/her concerns;
 - conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and
 - if the project is not complying with these criteria then:
 - determine if more than one mine is responsible for the exceedance, and if so the relative share of each mine towards the impact on the land;
 - identify the measures that could be implemented to ensure compliance with the relevant criteria; and
 - (b) give the Director-General and landowner a copy of the independent review.
4. If the independent review determines that the project is complying with the relevant criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.

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

- (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until the project complies with the relevant criteria; or
- (b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Director-General.

If the independent review determines that the project is not complying with the relevant acquisition criteria in Schedule 3, and that the project is primarily responsible for this non-compliance, then upon receiving a written request from the landowner, the Proponent shall acquire all or part of the landowner's land in accordance with the procedures in Conditions 6-7 below.

5. If the independent review determines that the relevant criteria in Schedule 3 are being exceeded, but that more than one mine is responsible for this exceedance, then together with the relevant mine/s the Proponent shall:
 - (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until there is compliance with the relevant criteria; or
 - (b) secure a written agreement with the landowner and other relevant mines to allow exceedances of the relevant criteria, to the satisfaction of the Director-General.

If the independent review determines that the relevant acquisition criteria in Schedule 3 are being exceeded, but that more than one mine is responsible for this exceedance, then upon receiving a written request from the landowner, the Proponent shall acquire all or part of the landowner's land on as equitable a basis as possible with the relevant mine/s in accordance with the procedures in Conditions 6-7 below.

LAND ACQUISITION

6. Within 3 months of receiving a written request from a landowner with acquisition rights, the Proponent shall make a binding written offer to the landowner based on:
- (a) the current market value of the landowner's interest in the land at the date of this written request, as if the land was unaffected by the project, having regard to the:
 - existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and
 - presence of improvements on the land and/or any approved building or structure which has been physically commenced on the land at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of any additional noise mitigation measures under Condition 6 of Schedule 3;
 - (b) the reasonable costs associated with:
 - relocating within the Mid-Western Regional local government area, or to any other local government area determined by the Director-General; and
 - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and
 - (c) reasonable compensation for any disturbance caused by the land acquisition process.

However, if at the end of this period, the Proponent and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Director-General for resolution.

Upon receiving such a request, the Director-General will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:

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

Within 14 days of receiving the independent valuer's report, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.

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

Within 14 days of this determination, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the Director-General's determination.

If the landowner refuses to accept the Proponent's binding written offer under this condition within 6 months of the offer being made, then the Proponent's obligations to acquire the land shall cease, unless the Director-General determines otherwise.

7. The Proponent shall pay all reasonable costs associated with the land acquisition process described in Condition 6 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.

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

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

1. The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. This strategy must:
 - (a) be submitted to the Director-General for approval by the end of April 2011;
 - (b) provide the strategic framework for environmental management of the project;
 - (c) identify the statutory approvals that apply to the project;
 - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;
 - (e) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the project;
 - respond to any non-compliance;
 - respond to emergencies; and
 - (f) include:
 - copies of any strategies, plans and programs approved under the conditions of this approval; and
 - a clear plan depicting all the monitoring required to be carried out under the conditions of this approval.

Management Plan Requirements

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

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

Annual Review

3. By the end of April 2012, and annually thereafter, the Proponent shall review the environmental performance of the project to the satisfaction of the Director-General. This review must:
 - (a) describe the development (including any rehabilitation) that was carried out in the past year, and the development that is proposed to be carried out over the next year;
 - (b) include a comprehensive review of the monitoring results and complaints records of the project over the past year, which includes a comparison of these results against the
 - the relevant statutory requirements, limits or performance measures/criteria;
 - the monitoring results of previous years; and
 - the relevant predictions in the EA;
 - (c) identify any non-compliance over the past year, and describe what actions were (or are being) taken to ensure compliance;
 - (d) identify any trends in the monitoring data over the life of the project;

- (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and
- (f) describe what measures will be implemented over the next year to improve the environmental performance of the project.

Revision of Strategies, Plans and Programs

4. Within 3 months of:
- (a) the submission of an annual review under Condition 3 above;
 - (b) the submission of an incident report under Condition 6 below;
 - (c) the submission of an audit report under Condition 8 below; and
 - (d) any modification to the conditions of this approval, (unless the conditions require otherwise),
- the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General.

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

Community Consultative Committee

5. The Proponent shall establish and operate a new Community Consultative Committee (CCC) for the project generally accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007, or its latest version), and to the satisfaction of the Director-General. This CCC must be operating by the end of April 2011.

Notes:

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

REPORTING

Incident Reporting

6. The Proponent shall notify the Director-General and any other relevant agencies of any incident associated with the project as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident.

Regular Reporting

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

INDEPENDENT ENVIRONMENTAL AUDIT

8. By the end of December 2011 and August 2013, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:
- (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General;
 - (b) include consultation with the relevant agencies;
 - (c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);
 - (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and
 - (e) recommend appropriate measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under the abovementioned approvals.

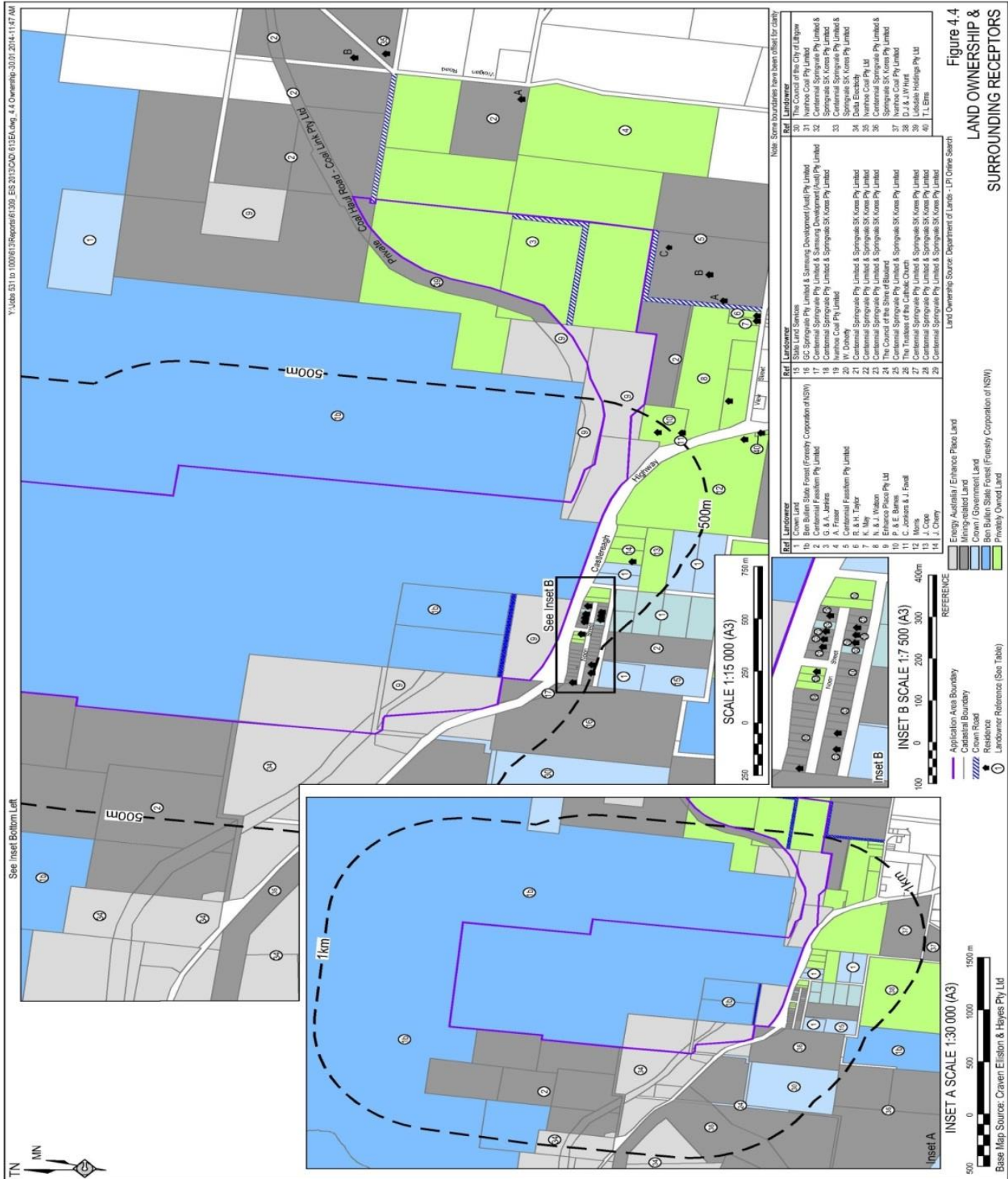
Note: This audit team must be led by a suitably qualified auditor and include experts in any field specified by the Director-General.

9. Within 6 weeks of the completion of this audit, or as otherwise agreed by the Director-General, the Proponent shall submit a copy of the audit report to the Director-General, together with its response to any recommendations contained in the audit report.

ACCESS TO INFORMATION

10. From the end of February 2011, the Proponent shall:
- (a) make copies of the following publicly available on its website:
 - the documents referred to in Condition 2 of Schedule 2;
 - all current statutory approvals for the project;
 - all approved strategies, plans and programs required under the conditions of this approval;
 - the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;
 - a complaints register, updated on a monthly basis;
 - minutes of CCC meetings;
 - the annual reviews of the project;
 - any independent environmental audit of the project, and the Proponent's response to the recommendations in any audit;
 - any other matter required by the Director-General; and
 - (b) keep this information up-to-date, to the satisfaction of the Director-General.
-

APPENDIX 1 SCHEDULE OF LAND



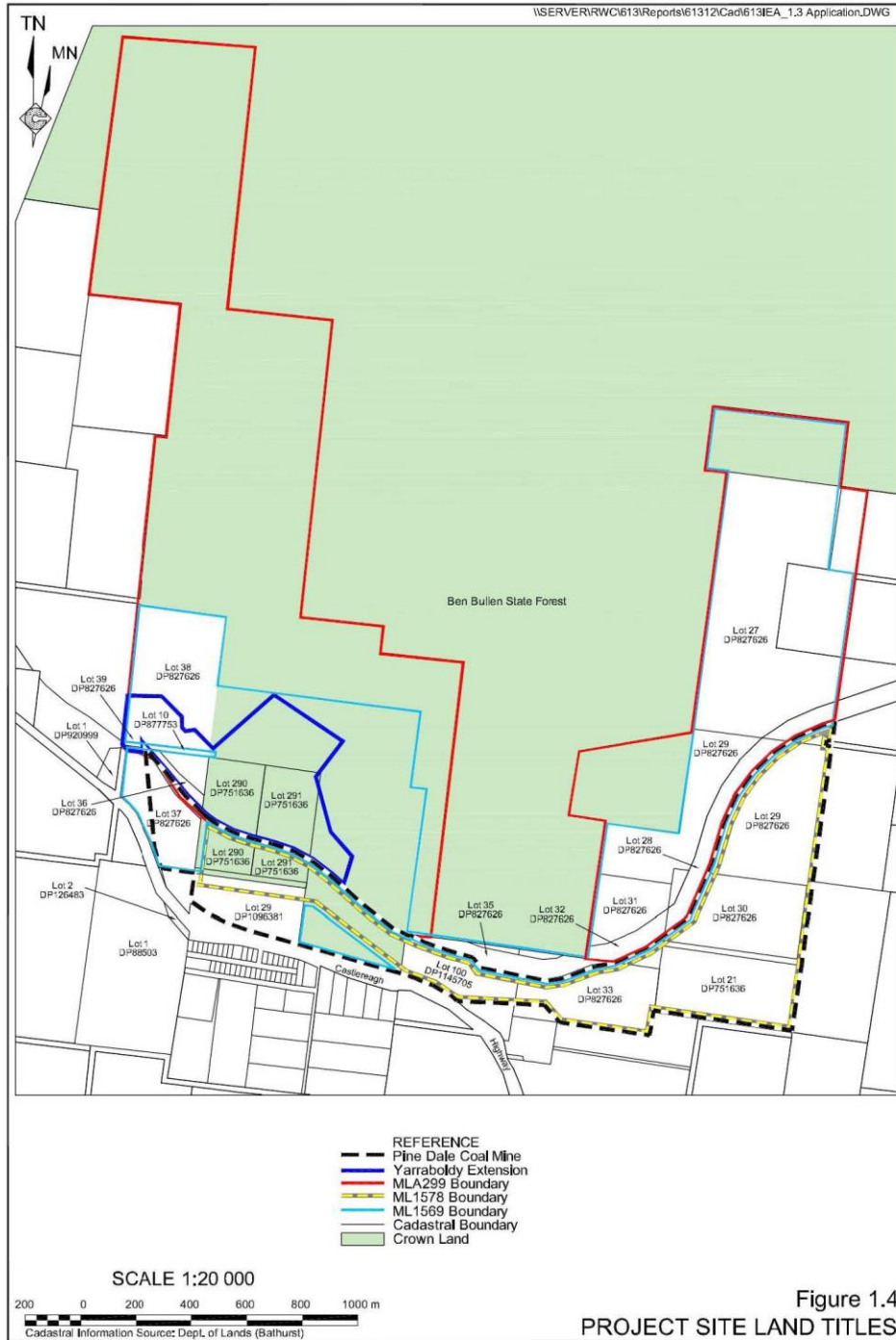
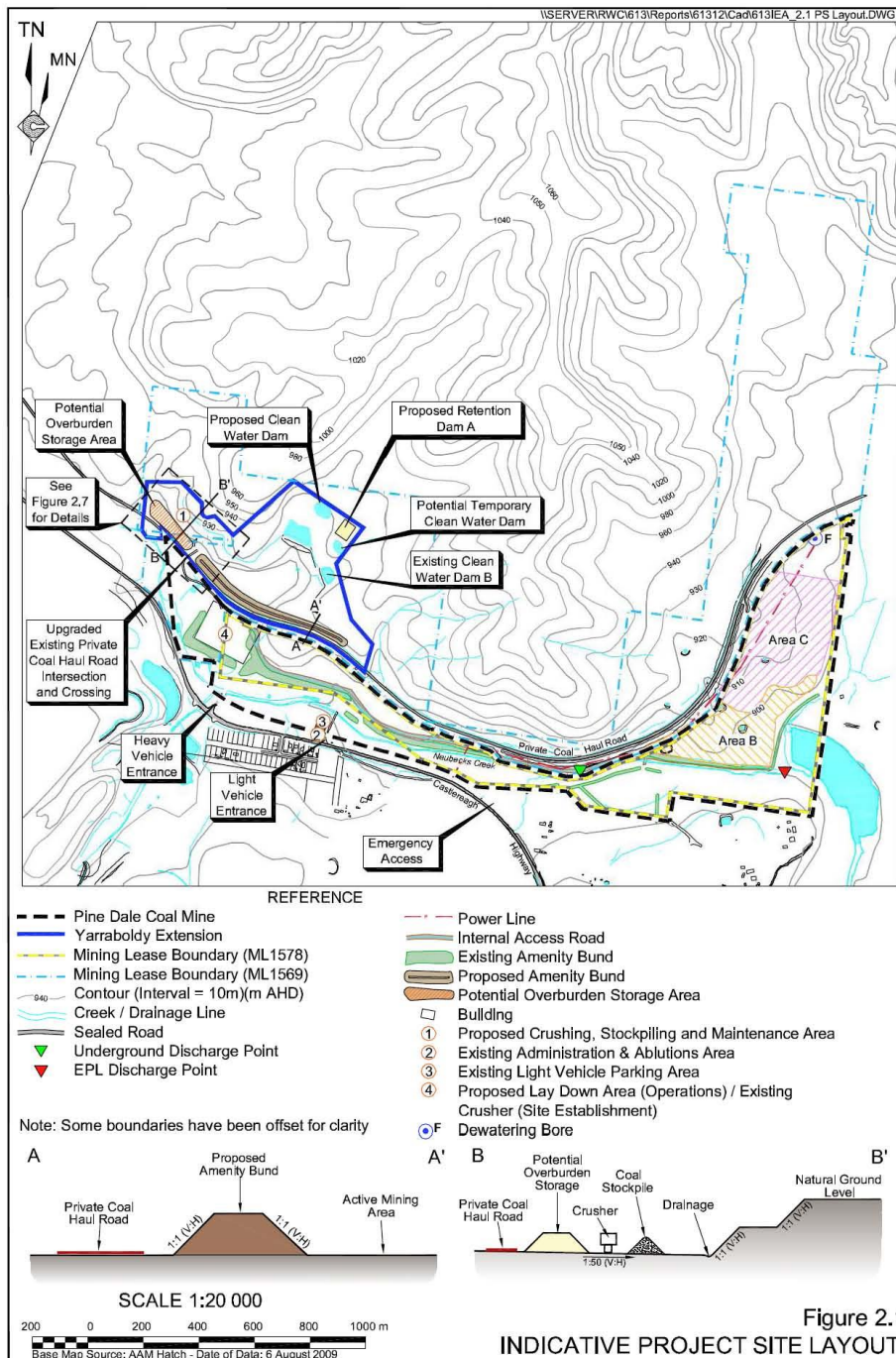
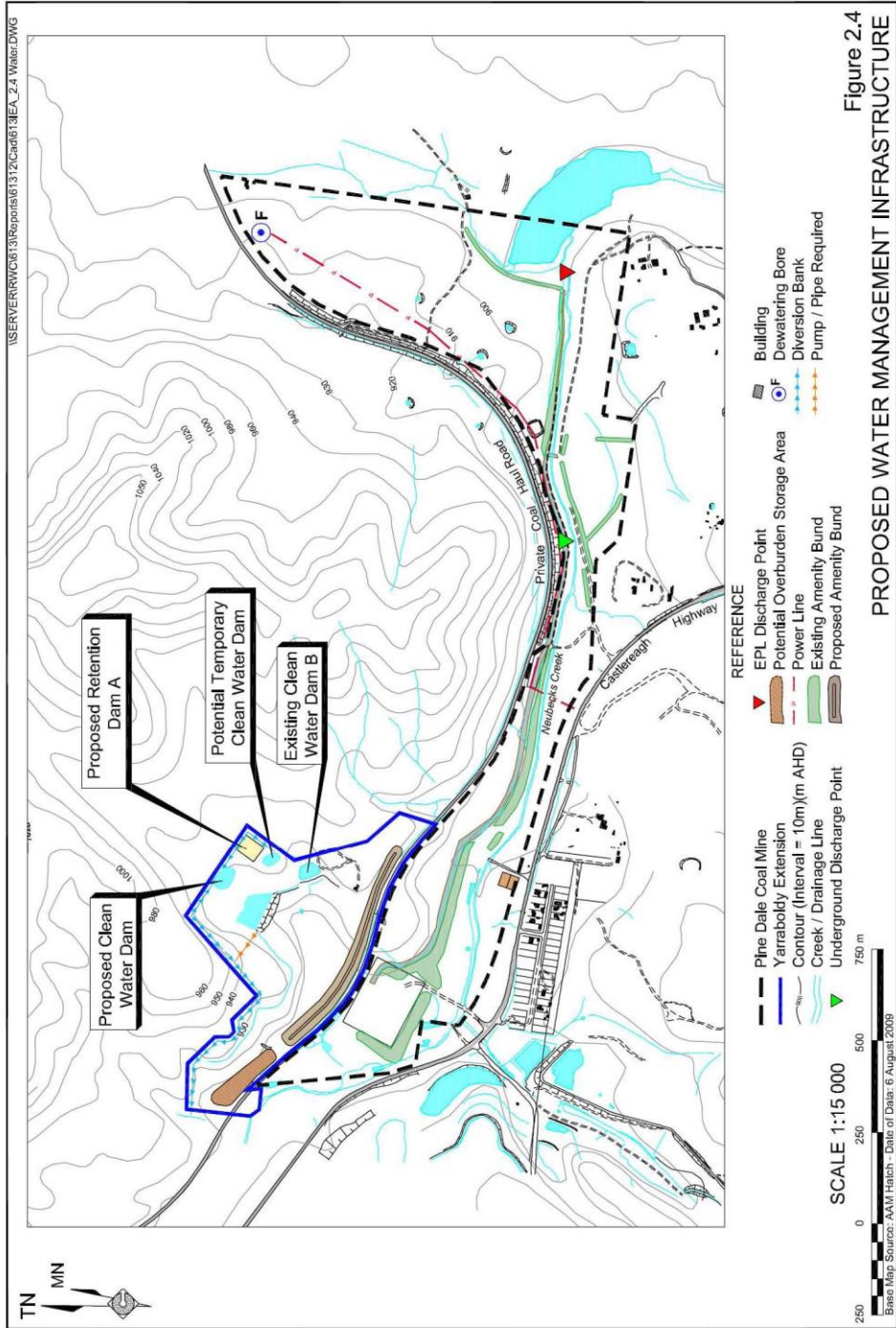
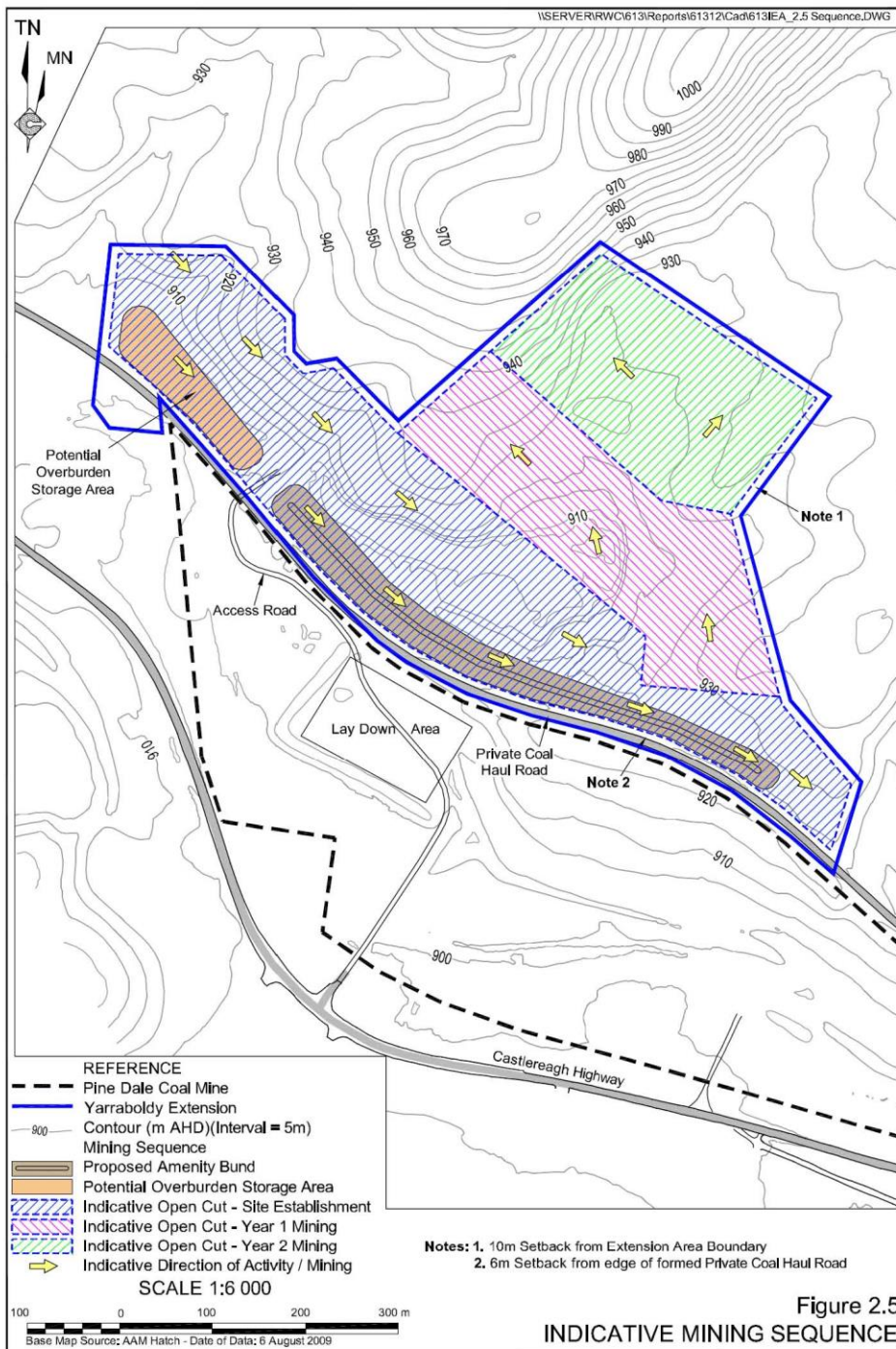


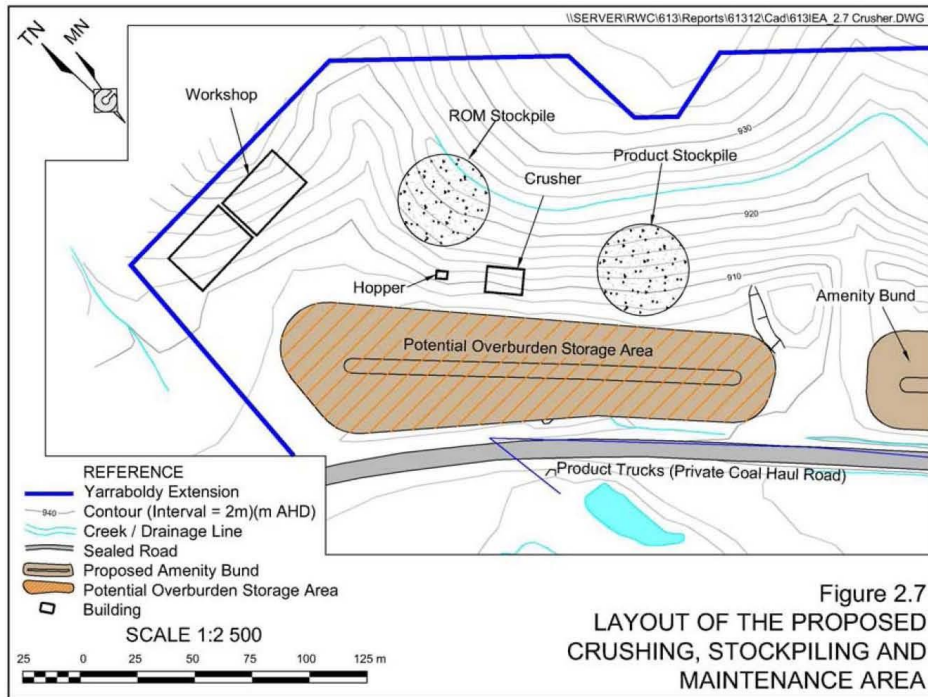
Figure 1.4
PROJECT SITE LAND TITLES

**APPENDIX 2
PROJECT LAYOUT PLANS**



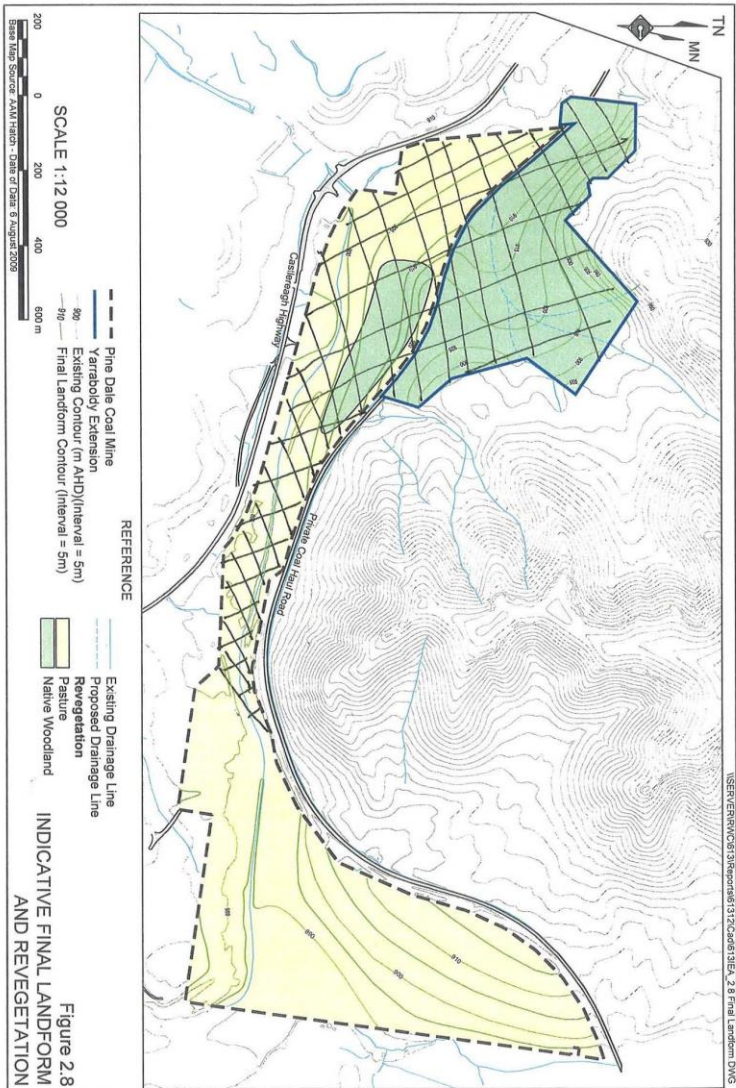






APPENDIX 3
CONCEPTUAL REHABILITATION PLAN

R.W. CORKERY & CO. PTY. LIMITED



ENVIRONMENTAL ASSESSMENT
Section 2 - Project Description
2 - 31
Pine Dale Coal Mine - Yaraboly Extension
ENHANCE PLACE PTY LIMITED
Report No. 613/12 - July 2010
Figure 2.8
INDICATIVE FINAL LANDFORM
AND REVEGETATION

**APPENDIX 4
STATEMENT OF COMMITMENTS**

Desired Outcome	Action	Timing
1. Groundwater		
Reduction in the amount of drawdown on local groundwater	1.1 Design the mine plan so that the interception of groundwater within the old Wallerawang Colliery underground workings is minimised.	Ongoing.
The need to discharge raw groundwater into the surrounding surface water environment is negated, thus avoiding the potential change in surface water quality.	1.2 Manage the small amount of groundwater intercepted on site for use in dust suppression or other internal uses e.g wash down.	As groundwater is intercepted.
Efficient dewatering of the pit.	1.3 Install sumps in strategic locations in the open cut pit as the pit develops.	Ongoing.
Determine if there are any impacts to groundwater associated with the Project to allow potential impacts to be identified in a timely manner to allow appropriate mitigation.	1.4 Continue the existing groundwater monitoring regime but also include monitoring of the bore that has been installed within the Yarraboldy footprint and the old ventilation shaft next to the haul road.	Ongoing.
Minimisation of groundwater contamination.	1.5 Manage chemicals and hydrocarbons appropriately.	Ongoing.
Prevention of managing water with a low pH.	1.6 Manage any potentially acid-generating material by the selective placement of cover material.	As required.
Timely mitigation of any impacts to groundwater.	1.7 If a non-conformance with a nominated trigger value is determined to be the result of activities associated with the Project, then the impacted landholder and DECCW - NOW will be notified and a remediation strategy will be proposed for discussion and implementation.	If a non-conformance with a nominated trigger value is determined to be the result of activities associated with the Project.
2. Surface Water		
Minimisation of changes to existing drainage patterns of the Project Site.	2.1 Retain, for as long as practicable, selected surface water structures such as the existing dams, sediment retention points and clean water diversion banks.	During construction period.
Prevention of sediment-laden water discharge off site from the progressive disturbed areas of the Project Site.	2.2 Install temporary erosion and sediment control structures.	During construction, site establishment, operational and rehabilitation phases.
	2.3 Construct diversion and sediment retention structures for the capture of sediment-laden water for treatment.	

Desired Outcome	Action	Timing
Minimisation of erosion and sedimentation.	<p>2.4 Prepare and implement a general Erosion and Sediment Control Plan (in accordance with the requirements of Landcom (2004)) to manage surface water flows within the Project Site.</p> <p>2.5 Establish and maintain groundcover at 70% or better over areas disturbed and no longer required by the Project and as site conditions provide for practicability.</p> <p>2.6 Progressively rehabilitate disturbed areas no longer required by the Project soon after the cessation of mining activities.</p>	Ongoing.

2. Surface Water (Cont'd)		
Prevention of contamination of clean surface water on Project Site.	<p>2.7 Construct diversion bunds or utilise existing infrastructure to keep dirty water flow separate from clean water diversions bunds.</p> <p>2.8 Divert dirty water into sediment basin and Retention Dam A.</p> <p>2.9 Divert clean water along clean water diversion bunds for flow into Neubecks Creek.</p>	Ongoing.
Prevention of contamination of water in Neubecks Creek.	<p>2.10 Divert dirty water into sediment controls or suitable structures for treatment.</p> <p>2.11 Pump water from sediment basin into Retention Basin A for storage and use in dust-suppression activities on Project Site.</p>	Ongoing. As required.
Prevention of saline groundwater discharge off site.	2.12 Pump groundwater from in-pit sump into Retention Dam A for storage and use in mining operations and dust suppression.	As required.
Minimisation of contamination of clean water on site with dirty water generated from mining operations.	<p>2.13 Install a sediment trap in the coal crushing/stockpiling and maintenance area to remove coal fines from surface flows.</p> <p>2.14 Install an oil/water separating unit to receive potentially contaminated water from the maintenance and wash-down bay for further treatment in the sediment basin.</p>	Ongoing.
Implementation of a comprehensive and ongoing surface water monitoring program.	<p>2.15 Monitor surface water quality for pH, EC, TSS, turbidity, oil and grease, filterable iron and sulfate ion concentrations.</p> <p>2.16 Record the approximate volume and quality of water extracted from the in-pit sump for discharge off site.</p>	Quarterly during surface flow events. Daily during discharge for pH, EC and turbidity. Whenever required.
3. Flora		
Minimisation of short and long-term impacts on flora within the Project Site	<p>3.1 Define and clearly mark vegetation for retention prior to the commencement of site establishment to ensure that impact on native vegetation is confined to those areas required for mining operations.</p> <p>3.2 Control noxious weeds on the Project Site.</p>	Prior to commencement of site establishment activities. Ongoing.

Desired Outcome	Action	Timing
Establishment of native vegetation with ecological and conservation value.	3.3 Utilise local native plant species and shrubs for rehabilitation and landscaping.	During rehabilitation and landscaping activities.
	3.4 Undertake replacement planting of some of the same tree species and shrubs within the Project Site upon cessation of mining activities.	During rehabilitation and landscaping activities.
Establishment of original groundcover.	3.5 Retain suitable bushrock with the topsoil and re-spread during the rehabilitation phase to return groundcover to near-original state.	During rehabilitation and landscaping activities.

4. Fauna

Management of disturbance within the Project Site to minimise impact on fauna of conservation value.	4.1 Identify the boundaries of disturbance and progressive disturbance to avoid clearing outside these boundaries.	Site establishment phase.
	4.2 Retain substantial habitat trees wherever possible.	Site establishment phase.
	4.3 Undertake any tree-felling in accordance with a prepared Tree Felling Protocol.	Rehabilitation phase.
	4.4 Provide habitat for important target species such as the Purple copper butterfly through planting of appropriate flora species (eg. <i>Bursaria spinosa</i> spp <i>lasiophylla</i>).	
Maintenance and improvement of the biodiversity value of the Project Site and surrounding areas.	4.5 Progressively increase forest and woodland communities within the already disturbed areas, the coaly residue areas and the rehabilitated land, to provide foraging and sheltering habitat.	Ongoing and rehabilitation phase.
	4.6 Use nesting boxes if required and salvage hollows to assist in maintaining the short and long term habitat value for hollow dependent species.	Rehabilitation phase.

5. Heritage

Site activities are undertaken without impacting upon any Aboriginal and European heritage items.	5.1 Stop works at and in the immediate vicinity of any Aboriginal and European heritage sites or relics, if found.	During site establishment, construction and operational phases of Project.
	5.2 Contact DECCW if any Aboriginal and European heritage sites or relics are found.	
	5.3 Receive authorisation from DECCW prior to proceeding with any works in the vicinity of any identified Aboriginal and European heritage sites or relics are found.	

6. Transport Aspects

Achieve safe and efficient transport operations.	6.1 Install "Truck Turning" signs in accordance with RTA requirements on the Castlereagh Highway.	Prior to despatch of coal from Yarraboldy onto the Castlereagh Highway.
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Desired Outcome	Action	Timing
	6.2 Install guide posts at all site entrances	As required.
	6.3 Improve the sight distances at all entrances through removal of vegetation in RTA verges with RTA approval.	As required.
	6.4 Construct an appropriate intersection with the Private Coal Haul Road to provide safe ingress and egress.	During site establishment.
	6.5 Implement a 'Surface Transport Management Plan' which incorporates safety and behaviour protocols	During site establishment and operations.
	6.6 Pay a financial contribution in accordance with the Lithgow Rural Roads Section 94 Contributions Plan - being 5 cents per tonne of coal transported per kilometre of Council road traversed.	Annually
Contribute to maintenance of local roads and infrastructure.	6.7 Pay a financial contribution in accordance with the Lithgow Rural Roads Section 94 Contributions Plan - being 5 cents per tonne of coal transported per kilometre of Council road traversed.	Annually
7. Noise		
All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	7.1 Regularly service all equipment used on-site to ensure the sound power levels remain at or below the levels used in the modelling to assess generated noise levels and compliance with the criteria.	Ongoing.
	7.2 Attend to local community concerns over construction, operational or transport noise.	Ongoing
Noise generated by operational activities does not exceed DECCW nominated criteria nor significantly impacts on neighbouring landowners and/or residents.	7.3 Construct the amenity bund on the southern side of the mine area	During the first 6 months of operation.
	7.4 Position the drilling rig so that at least 3m of topographic shielding is provided to the south, if required, (this may be achieved using temporary bunding).	Prior to the construction of the amenity bund.
	7.5 Operate the pump behind at least a 1.5m noise barrier.	Ongoing.
	7.6 Orientate the crusher with the open side facing northwards.	Ongoing.
	7.7 Operate the existing crushing plant only when new plant is not operating.	Until existing plant is decommissioned.

Desired Outcome	Action	Timing
8. Blasting		
Achieve compliance with all ANZECC Blasting Guidelines.	8.1 Utilise deck charges and/or other suitable techniques to minimise ground vibration, overpressure and fly-rock.	For relevant blasts to achieve compliance.
	8.2 Utilise appropriate detonators and firing sequences to minimise ground vibration.	For relevant blasts to achieve compliance.
	8.3 Optimise use of stemming materials and/or other suitable techniques to minimise overpressure.	All blasts.
	8.4 Optimise initiation sequence to minimise airblast overpressure and ground vibration.	All blasts.
	8.5 Carry out all blasts strictly in accordance with the Blast Management Plan.	All blasts.
9. Air Quality		
Site activities are undertaken without exceeding DECCW air quality criteria or adversely impacting upon surrounding receivers.	9.1 Continue monitoring of PM ₁₀ at the existing monitoring site, this being representative PM ₁₀ level at the potentially worst affected receptor.	Ongoing.
	9.2 Increase frequency of PM ₁₀ sampling from once per six days to once per three days in the event that elevated PM ₁₀ levels are recorded.	In the event that elevated PM ₁₀ levels is recorded.
	9.3 Continue with implementation of dust mitigation practices associated with Pine Dale Coal Mine, including watering of disturbed areas and haul roads, and covering of product truck loads.	Ongoing.
	9.4 Implement extra mitigation measures such as more watering, and modification of site activities.	If increased dust levels are recorded during windy conditions.
	9.5 Partially enclose the crusher and conveyors to minimise dust during processing.	Prior to crushing.
Implementation of an appropriate air quality monitoring program for continued compliance with DECCW guideline levels.	9.6 Monitor deposited dust levels at six existing deposition gauges (D1-D6).	Ongoing.
	9.7 Review and submit dust monitoring results to DECCW as part of the Annual Environmental Management Report.	Annually.
Minimisation of greenhouse gas, other gases, and odour emissions through reductions in diesel consumption.	9.8 Optimise and schedule vehicle operations to minimise vehicle movements.	Ongoing.
	9.9 Maintain engines according to manufacturers' guidelines and keep tyres at optimum pressure.	Ongoing.
	9.10 Minimise as far as operationally practicable vehicle idling time.	Ongoing.

Desired Outcome	Action	Timing
10. Visibility		
Limit the visibility of Operational areas from nearby residences and Castlereagh Highway.	10.1 Construct the amenity bund on the southern side of the mine area.	During the first 6 months of operation.
	10.2 Position / direct lighting so as to minimise off-site light emissions. Do not operate lighting when not required.	Ongoing.
	10.3 Maintain the mine in a tidy condition.	Ongoing.
11. Soils, Land Capability and Agricultural Suitability		
Maintenance of soil value for rehabilitation and minimisation of soil loss through erosion.	11.1 Retain soils stripped from undisturbed areas of the Project Site for rehabilitation works.	During site establishment, operational and rehabilitation phases.
	11.2 Develop appropriate soil management procedures for handling and stockpiling soils of the types found at the Project Site.	
	11.3 Develop appropriate soil and erosion management procedures to minimise soil erosion from stockpiles and stripped areas.	
Remediation of contaminated soils.	11.4 Excavate and remove soils contaminated with hydrocarbons.	As soon as possible and within one month of contamination occurring.
	11.5 Remove contaminated soil (if the contamination is limited in area) to a designated location at the site (away from natural drainage) for the bio-remediation of the contaminated material.	
	11.6 Remove contaminated soil (if the contamination is widespread) and transport to a facility licensed to accept the specific type of contaminated material.	

Appendix 2

Program for Implementation of Project Approval 10_0041 Conditions

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PREAMBLE

This document has been prepared to assist Enhance Place Pty Limited implement the conditional requirements included in Project Approval 10_0041 issued by the NSW Department of Planning on 20 February 2011. The various conditional requirements have been sorted with respect to time requirements and activities under the following headings.

PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS

- A1: Prior to Open Cut Mining
- A2: Prior to Blasting
- A3: Prior to the Production of Saleable Coal
- A4: Prior to Despatch of Coal via the Castlereagh Highway
- A5: Prior to End February 2011
- A6: Prior to End April 2011
- A7: Prior to End July 2011
- A8: Prior to End February 2012

PART B: ADMINISTRATIVE GENERAL REQUIREMENTS AND DOCUMENTATION

- B1: Administrative and General Requirements
- B2: Documentation

PART C: ENVIRONMENTAL MANAGEMENT

- C1: Noise
- C2: Blasting
- C3: Air Quality and Greenhouse Gas
- C4: Meteorological Monitoring
- C5: Soil and Water
- C6: Biodiversity
- C7: Transportation
- C8: Visual
- C9: Waste
- C10: Bushfire Management
- C11: Rehabilitation
- C12: Heritage

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**Table A2.1
Implementation of Approval Conditions and Commitments**

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A1: PRIOR TO OPEN CUT MINING					
PA3/32	<p>The Proponent shall prepare and implement an Aboriginal Heritage Management Plan for the project to the satisfaction of the Director-General. The Plan must:</p> <ul style="list-style-type: none"> (a) be prepared in consultation with DECCW and the Aboriginal community; (b) be submitted to the Director-General for approval prior to carrying out any open cut mining operations under this approval; and (c) include a: <ul style="list-style-type: none"> • program for the recording, salvage and surface collection of any Aboriginal objects/sites that may be encountered within the project area; • description of the measures that would be implemented if any Aboriginal skeletal remains are discovered during the project; and • protocol for the ongoing consultation and involvement of the Aboriginal community in the conservation and management of the Aboriginal heritage of the objects/sites. 	<ul style="list-style-type: none"> • Prepare Aboriginal Heritage Management Plan in consultation with Aboriginal community and OEH incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Aboriginal Heritage Management Plan. • Correspondence with Aboriginal stakeholders and OEH. • Correspondence from Director-General confirming approval. 	Enhance Place (with assistance from consultants)	<p>Prior to open cut mining.</p> <p>(Approved by DoP 20/03/11)</p>
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A2: PRIOR TO BLASTING					
PA3/15	The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Director-General. This plan must: <ul style="list-style-type: none"> (a) be prepared in consultation with DECCW and Council, and submitted to the Director-General for approval prior to undertaking any blasting on-site; (b) describe the blast mitigation measures that would be implemented to ensure compliance with the relevant conditions of this approval; (c) describe the measures that would be implemented to ensure the public can get up-to-date information on the proposed blasting schedule on site; (d) include a blast monitoring program to evaluate the performance of the project; and (e) include a protocol that has been prepared in consultation with the owners of all other operating open-cut mines within 2 kilometres of the site for minimising and managing the cumulative blasting impacts of the mines. 	<ul style="list-style-type: none"> • Prepare Blast Management Plan in consultation with OEH and Council incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Blast Management Plan. • Correspondence with OEH and Council. • Correspondence from Director-General confirming approval. 	Enhance Place (with assistance from consultants)	Prior to blasting. (Approved by DoP 23/03/11)
A3: PRIOR TO PRODUCTION OF SALEABLE COAL					
PA2/15	Prior to the production of saleable coal on site, the Proponent shall pay Council \$79,800 (GST inclusive) for the provision of community infrastructure and services.	<ul style="list-style-type: none"> • Payment of contributions. 	<ul style="list-style-type: none"> • Payment receipt. 	Enhance Place	Prior to production of saleable coal.
A4: PRIOR TO DESPATCH OF COAL VIA THE CASTLEREAGH HIGHWAY					
SC6.1	Install "Truck Turning" signs in accordance with RTA requirements on the Castlereagh Highway.	<ul style="list-style-type: none"> • Installation of "Truck Turning" signs. 	<ul style="list-style-type: none"> • Written correspondence to RTA confirming installation of required signs. 	Enhance Place	Prior to despatch of coal via the Castlereagh Highway.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A5: PRIOR TO END FEBRUARY 2011					
PA3/26	<p>The Proponent shall prepare and implement a Baseline Water Monitoring Plan for the project to the satisfaction of the Director-General. This plan must:</p> <p>(a) be prepared in consultation with DECCW and NOW by suitably qualified and experienced persons whose appointment has been approved by the Director-General;</p> <p>(b) be submitted to the Director-General for approval by the end of February 2011; and</p> <p>(c) include programs for:</p> <ul style="list-style-type: none"> • consultation with other industries in the vicinity of the mine to gather existing surface water data; • intensive baseline monitoring to be conducted for the first 6 months of site establishment to provide detailed data on surface water flows/levels and quality in creeks and other waterbodies that could be affected by the project (including the Neubecks Creek, the Blue Lake and the Coxs River). 	<ul style="list-style-type: none"> • Prepare Baseline Water Monitoring Plan in consultation with OEH and NOW incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Baseline Water Monitoring Plan. • Correspondence with OEH and NOW. • Correspondence from Director-General confirming approval. 	Enhance Place (with assistance from consultants)	By end of February 2011 (extension granted to end March 2011).
A6: PRIOR TO END APRIL 2011					
PA3/7	<p>The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Director-General. This plan must:</p> <p>(a) be prepared in consultation with DECCW and Council, and submitted to the Director-General for approval by the end of April 2011;</p> <p>(b) describe the noise mitigation measures that would be implemented to ensure compliance with the relevant conditions of this approval, including measures that would be implemented during the construction of the amenity bund;</p> <p>(c) include a noise monitoring program that:</p> <ul style="list-style-type: none"> • uses attended monitoring to evaluate the performance of the project; and • includes a protocol for determining exceedances of the relevant conditions of this approval. 	<ul style="list-style-type: none"> • Prepare Noise Management Plan in consultation with OEH and Council incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Noise Management Plan. • Correspondence with OEH and Council. • Correspondence from Director-General confirming approval. 	Enhance Place (with assistance from consultants)	By 31 April 2011.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A6: PRIOR TO END APRIL 2011					
PA3/21	<p>The Proponent shall prepare and implement a detailed Air Quality & Greenhouse Gas Management Plan for the project to the satisfaction of the Director-General. This plan must:</p> <ul style="list-style-type: none"> (a) be prepared in consultation with DECCW and Council, and submitted to the Director-General for approval by the end of April 2011; (b) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval; and (c) include an air quality monitoring program, that uses a combination high volume samplers and dust deposition gauges to evaluate the performance of the project, and includes a protocol for determining exceedances with the relevant conditions of this approval. 	<ul style="list-style-type: none"> • Prepare Air Quality and Greenhouse Gas Management Plan in consultation with OEH and Council incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Air Quality and Greenhouse Gas Management Plan. • Correspondence with OEH and Council. • Correspondence from Director-General confirming approval. 	Enhance Place (with assistance from consultants)	By 31 April 2011
PA3/27	<p>The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Director-General. This plan must be prepared in consultation with DECCW and NOW by suitably qualified and experienced persons whose appointment has been approved by the Director-General, and submitted to the Director-General for approval by the end of April 2011.</p> <p>In addition to the standard requirements for management plans (see Condition 2 of Schedule 5), this plan must include:</p> <ul style="list-style-type: none"> (a) a Site Water Balance that: <ul style="list-style-type: none"> • includes details of: <ul style="list-style-type: none"> • sources and security of water supply; • water use on site; and • reporting procedures; and • describes what measures would be implemented to minimise potable water use on site. 	<ul style="list-style-type: none"> • Prepare Water Management Plan in consultation with OEH and NOW incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Water Management Plan. • Correspondence with OEH and NOW. • Correspondence from Director-General confirming approval. 	Enhance Place (with assistance from consultants)	By 31 April 2011.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

**Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments**

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A6: PRIOR TO END APRIL 2011					
PA3/27	(b) a Surface Water Management Plan, that includes: <ul style="list-style-type: none"> • a detailed description of the water management system on site, including the: <ul style="list-style-type: none"> • clean water diversion systems; • erosion and sediment controls; and • water storages; • a plan for identifying, extracting, handling, and the long-term storage of potentially acid forming materials on site; • detailed plans, including design objectives and performance criteria, for: <ul style="list-style-type: none"> • reinstatement of drainage lines on the rehabilitated areas of the site; and • control of any potential water pollution from rehabilitated areas of the site; • performance criteria for the following, including trigger levels for investigating any potentially adverse impacts on: <ul style="list-style-type: none"> • the water management system; • surface water quality in creeks and other water bodies that could potentially affected by the project (including Neubecks Creek, the Blue Lake and Coxs River); • the stream health, vegetation health and channel stability of water bodies that could potentially affected by project • a program to monitor: <ul style="list-style-type: none"> • the effectiveness of the water management system; • surface water flows and quality in creeks and other water bodies that could potentially affected by the project; • the stream health, riparian vegetation health and channel stability of creeks and other water bodies that could potentially affected by the project; • a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; and 				
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A6: PRIOR TO END APRIL 2011					
PA3/27	(c) a Groundwater Management Plan, which includes: <ul style="list-style-type: none"> • groundwater assessment criteria, including trigger levels for investigating and potentially adverse groundwater impacts; • a program to monitor: <ul style="list-style-type: none"> • groundwater inflows to the open cut mining operation • the impacts of the project on; <ul style="list-style-type: none"> ○ baseflows to Neubecks Creek; ○ any groundwater bores on privately owned land; and • a program to validate the groundwater model for the project, and calibrate it to site specific conditions; and • a plan to respond to any exceedances of the performance criteria, and offset the loss of any baseflow to Neubecks Creek caused by the project. 				
PA3/40	The Proponent shall prepare and implement a Waste Management Plan for the project to the satisfaction of the Director-General. This plan must be submitted to the Director-General by the end of April 2011.	<ul style="list-style-type: none"> • Prepare Waste Management Plan incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Waste Management Plan. • Correspondence from Director-General confirming approval. 	Enhance Place	By 31 April 2011.
PA3/52	By the end of April 2011, the Proponent shall prepare and implement a Bushfire Management Plan for the site, to the satisfaction of the State Forest in consultation with the local Rural Fire Service.	<ul style="list-style-type: none"> • Prepare Bushfire Management Plan in consultation with Rural Fire Service incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Bushfire Management Plan. • Correspondence with Rural Fire Service. • Correspondence from Director-General confirming approval. 	Enhance Place	By 31 April 2011.

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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A6: PRIOR TO END APRIL 2011					
PA4/1	<p>By the end of April 2011, the Proponent shall notify in writing the owners of:</p> <ul style="list-style-type: none"> (a) any residence on the land listed in Table 3 of Schedule 3 that they are entitled to ask for additional noise mitigation measures to be implemented at their residence at any stage during the project; and (b) any privately-owned land within 2 kilometres of the approved open cut mining pit on site that they are entitled to ask for an inspection to establish the baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated. 	<ul style="list-style-type: none"> • Write to all land owners as specified. 	<ul style="list-style-type: none"> • Correspondence to owners of privately owned residences / land. 	Enhance Place	By 31 April 2011.
PA5/1	<p>The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. This strategy must:</p> <ul style="list-style-type: none"> (a) be submitted to the Director-General for approval by the end of April 2011; (b) provide the strategic framework for environmental management of the project; (c) identify the statutory approvals that apply to the project; (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project; (e) describe the procedures that would be implemented to: <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; 	<ul style="list-style-type: none"> • Prepare Environmental Management Strategy. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Correspondence from Director-General confirming approval. 	Enhance Place	By 31 of April 2011.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A6: PRIOR TO END APRIL 2011					
	<ul style="list-style-type: none"> respond to any non-compliance; respond to emergencies; and 				
	(f) include: <ul style="list-style-type: none"> copies of any strategies, plans and programs approved under the conditions of this approval; and a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. 				
PA5/5	The Proponent shall establish and operate a new Community Consultative Committee (CCC) for the project generally accordance with the Guidelining and Operating Community Consultative Committees for Mining Projects (Department of Planning, 2007, or its latest version), and to the satisfaction of the Director-General. This CCC must be operating by the end of April 2011. <i>Notes:</i> <ul style="list-style-type: none"> The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval; and In accordance with the guideline, the Committee should be comprised of an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community. 	<ul style="list-style-type: none"> Establish a community consultative committee. 	<ul style="list-style-type: none"> Correspondence from Director-General confirming satisfaction of CCC. 	Enhance Place	By 31 April 2011.
A7: PRIOR TO END JULY 2011					
PA2/7	By the end of July 2011, or as otherwise agreed by the Director-General, the Proponent shall surrender the existing development consent (461-04) for the site in accordance with Section 104A of the EP&A Act.	<ul style="list-style-type: none"> Surrender development consent DA 461-04. 	<ul style="list-style-type: none"> Formal response from Council and Director-General acknowledging surrender of consent. 	Enhance Place	By 31 July 2011.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A8: PRIOR TO END FEBRUARY 2012					
PA3/55	The Proponent shall prepare and implement a Rehabilitation Management Plan for the project to the satisfaction of the Director-General of I&I NSW. This plan must: <ul style="list-style-type: none"> (a) be prepared in consultation with the Department, DECCW, NOW, and the CCC; (b) be prepared in accordance with any relevant I&I NSW guideline; (c) build, to the maximum extent practicable, on the other management plans required under this approval; and (d) be submitted to the Director-General of I&I NSW for approval by the end of July 2011. 	<ul style="list-style-type: none"> • Prepare Rehabilitation Management Plan in consultation with DoP&I, OEH, NOW and CCC incorporating the required components. • Submit plan to Director-General of I&I NSW for approval. 	<ul style="list-style-type: none"> • Rehabilitation Management Plan. • Correspondence with DoP&I, OEH, NOW and CCC. • Correspondence from Director-General of I&I NSW confirming approval. 	Enhance Place (with assistance from consultants)	By 31 July 2011.
PA3/28	By the end of February 2012, the Proponent shall prepare a Biodiversity Offset Strategy for the project to the satisfaction of the Director-General. This strategy must: <ul style="list-style-type: none"> (a) be prepared in consultation with DECCW; and (b) provide for the long term conservation of at least 30 hectares of native vegetation in the region to offset the vegetation clearing associated with the project. 	<ul style="list-style-type: none"> • Prepare Biodiversity Offset Strategy in consultation with OEH incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Biodiversity Offset Strategy. • Correspondence with OEH. • Correspondence from Director-General confirming approval. 	Enhance Place (with assistance from consultants)	By 28 February 2012.
PA3/30	The Proponent shall prepare and implement a Biodiversity Management Plan for the project to the satisfaction of the Director-General. This plan must: <ul style="list-style-type: none"> (a) be prepared in consultation with DECCW, and submitted to the Director-General for approval by the end of February 2012; (b) include: <ul style="list-style-type: none"> • detailed performance and completion criteria for the implementation of the biodiversity offset strategy; 	<ul style="list-style-type: none"> • Prepare Biodiversity Management Plan in consultation with OEH incorporating the required components. • Submit plan to Director-General for approval. 	<ul style="list-style-type: none"> • Biodiversity Management Plan. • Correspondence with OEH. • Correspondence from Director-General confirming approval. 	Enhance Place (with assistance from consultants)	By 28 February 2012.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART A: ACTIONS PRIOR TO NOMINATED HOLD POINTS					
A8: PRIOR TO END FEBRUARY 2012					
	<ul style="list-style-type: none"> • a detailed description of the measures that would be implemented to manage the remnant vegetation and habitat within the offset area, and ensure the biodiversity offset strategy is suitably implemented, including the procedures for: <ul style="list-style-type: none"> - revegetating or regenerating parts of the offset area, if required; - managing or improving the quality of existing vegetation in the offset area; - controlling weeds, feral pests and access; and - managing bushfires; • details of who would be responsible for monitoring, reviewing and implementing the plan. 				
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA2/1	The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the project.	<ul style="list-style-type: none"> • Ensure all mitigation measures described within the project approval and <i>Environmental Assessment</i> are implemented. 	<ul style="list-style-type: none"> • Annual Compliance Review which will form part of each AEMR. 	Enhance Place	Ongoing.
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**Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments**

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA2/2	The Proponent shall carry out the project generally in accordance with the: (a) EA; (b) statement of commitments; and (c) conditions of this approval. <i>Notes:</i> <ul style="list-style-type: none"> The general layout of the project is shown in Appendix 2; and The statement of commitments is reproduced in Appendix 4. 	<ul style="list-style-type: none"> Ensure all personnel and contractors are aware of conditional requirements. 	<ul style="list-style-type: none"> Annual Compliance Review which will form part of each AEMR. 	Enhance Place and Mining Contractor.	Ongoing.
PA2/3	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.	<ul style="list-style-type: none"> Ensure all personnel and contractors are aware of conditional requirements. 	<ul style="list-style-type: none"> Annual Compliance Review which will form part of each AEMR. 	Enhance Place and Mining Contractor.	Ongoing.
PA2/4	The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of: (a) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in accordance with this approval; and (b) the implementation of any actions or measures contained in these documents.	<ul style="list-style-type: none"> Undertake required works arising from any requirements of the Director-General's review of reports, plans, programs, strategies and correspondence required by this approval. 	<ul style="list-style-type: none"> Correspondence to and from Director-General confirming satisfaction of completed works. 	Enhance Place	As requested by the Director-General.
PA2/5	The Proponent may carry out mining operations on the site until 31 August 2013. <i>Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of both the Director-General and the Director-General of I&I NSW. Consequently, this approval will continue to apply in all other respects - other than the right to conduct mining operations - until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.</i>	<ul style="list-style-type: none"> Cease mining operations by 31 August 2013. 	<ul style="list-style-type: none"> Written notification to DoP&I that mining operations have ceased. 	Enhance Place.	By 31 August 2013.
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA2/6	The Proponent shall not: (a) extract more than 350 000 tonnes of ROM coal from the site in a calendar year; (b) extract more than 800 000 tonnes of ROM coal from the site over the life of the project; (c) export more than 350 000 tonnes of coal from the site in a calendar year; and (d) import any ash onto the site.	<ul style="list-style-type: none"> Do not exceed the nominated extraction and export limits. Do not import any ash onto the site. 	<ul style="list-style-type: none"> Production schedules and report in each AEMR. 	Enhance Place	Ongoing.
PA2/8	Prior to the surrender of the consent referred to in Condition 7 above, the conditions of this approval shall prevail to the extent of any inconsistency with the conditions of this consent.	<ul style="list-style-type: none"> Ensure all personnel and contractors are aware of conditional requirements. 	<ul style="list-style-type: none"> Annual Compliance Review which will form part of each AEMR. 	Enhance Place and Mining Contractor.	Ongoing.
PA2/9	The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. Notes: <ul style="list-style-type: none"> Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. 	<ul style="list-style-type: none"> Comply with relevant Australian Standards and obtain all necessary certificates. 	<ul style="list-style-type: none"> Copies of relevant construction and occupation certificates. 	Enhance Place.	Ongoing and prior to construction / occupation of building / structure.
PA2/10	The Proponent shall ensure that all demolition work is carried out in accordance with <i>Australian Standard AS 2601-2001: The Demolition of Structures</i> , or its latest version.	<ul style="list-style-type: none"> Ensure all demolition is compliant with the Australian Standard. 	<ul style="list-style-type: none"> Compliance certificates. 	Enhance Place.	Upon demolition of any structures.

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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA2/11	The Proponent shall ensure that all the plant and equipment used on site, or to transport coal from the site, is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	<ul style="list-style-type: none"> Train personnel in proper operations and preventative maintenance scheduling. 	<ul style="list-style-type: none"> Maintenance / Service sheets, procedures and toolbox talks. 	Enhance Place and Mining Contractor.	Ongoing.
PA2/12	With the approval of the Director-General, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis. <i>Note: While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing operations of the site are covered by suitable strategies, plans or programs at all times.</i>	<ul style="list-style-type: none"> Request approval from Director-General to submit plans progressively. 	<ul style="list-style-type: none"> Formal letter to Director-General. 	Enhance Place.	As required
PA2/13	The Proponent shall continue to implement the existing strategies, plans or programs that apply to any development on site until they are replaced by an equivalent strategy, plan or program approved under this approval.	<ul style="list-style-type: none"> Continue implementation of existing strategies, plans and programs. 	<ul style="list-style-type: none"> Existing strategies, plans and programs. 	Enhance Place and Mining Contractor.	Prior to approval of updated plans / programs.
PA3/5	Apart from equipment maintenance activities, the Proponent may only carry out development on site between 7 am and 6 pm from Monday to Saturday, excluding public holidays. Equipment maintenance activities may be carried out on site between the hours of 7 am to 10 pm from Monday to Saturday and between 9 am to 4 pm on Sundays, excluding public holidays. <i>Note: Condition 9 of Schedule 3 specifies blasting hours and Condition 34 of Schedule 3 specifies product transportation hours.</i>	<ul style="list-style-type: none"> Inform all employees of operational hours. 	<ul style="list-style-type: none"> Activities record sheet. 	Enhance Place and Mining Contractor.	Continuous.

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**Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments**

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA4/2	<p>Within 2 weeks of obtaining monitoring results showing:</p> <p>(a) exceedances of the relevant criteria in Schedule 3, the Proponent shall notify the affected landowners and/or tenants in writing of the exceedance, and provide regular monitoring results to each of these parties until the project is complying with the relevant criteria again;</p> <p>(b) exceedances of the relevant criteria in Table 3 of Schedule 3, the Proponent shall notify in writing the applicable owner that they are entitled to ask for additional noise mitigation measures to be installed at their residence; and</p> <p>(c) exceedances of the relevant air quality criteria in Schedule 3, send the affected landowners and tenants (including the tenants of any mine-owned land) a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time).</p>	<ul style="list-style-type: none"> • Notify affected landowner and/or tenants in accordance with condition. • Notify affected landowner and/or tenants in accordance with condition. • Provide affected landowner and /or tenants with appropriate fact sheet. 	<ul style="list-style-type: none"> • Correspondence to landowner and/or tenants. • Correspondence to landowner and/or tenants. • Correspondence to landowner and/or tenants. 	<p>Enhance Place.</p> <p>Enhance Place.</p> <p>Enhance Place.</p>	<p>In the event of an exceedance.</p> <p>In the event of an exceedance.</p> <p>In the event of an air quality exceedance.</p>
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

**Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments**

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA4/3	<p>If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Director-General in writing for an independent review of the impacts of the project on his/her land.</p> <p>If the Director-General is satisfied that an independent review is warranted, then within 2 months of the Director-General's decision the Proponent shall:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to:</p> <ul style="list-style-type: none"> • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and • if the project is not complying with these criteria then: <ul style="list-style-type: none"> - determine if more than one mine is responsible for the exceedance, and if so the relative share of each mine towards the impact on the land; - identify the measures that could be implemented to ensure compliance with the relevant criteria; and <p>(b) give the Director-General and landowner a copy of the independent review.</p>	<ul style="list-style-type: none"> • Consult with the landowner. • Appoint a qualified independent person to investigate and report on the claim. • Provide a copy of the report to the landowner and Director-General. 	<ul style="list-style-type: none"> • Report from qualified independent person. • Correspondence to Director-General outlining consultation and providing report. 	Enhance Place.	Within 2 months of being advised by the Director-General.
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA4/4	<p>If the independent review determines that the project is complying with the relevant criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.</p> <p>If the independent review determines that the project is not complying with the relevant impact assessment criteria in Schedule 3, and that the project is primarily responsible for this non-compliance, then the Proponent shall:</p> <p>(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until the project complies with the relevant criteria; or</p> <p>(b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Director-General.</p> <p>If the independent review determines that the project is not complying with the relevant acquisition criteria in Schedule 3, and that the project is primarily responsible for this non-compliance, then upon receiving a written request from the landowner, the Proponent shall acquire all or part of the landowner's land in accordance with the procedures in Conditions 6-7 below.</p>	<ul style="list-style-type: none"> • Seek written approval from Director-General to discontinue, the review. • Implement measures as required, conduct further monitoring or seek written agreement with landowner. • Acquire all or part of affected landholding in accordance with <i>Schedule 4 Conditions 6 & 7</i>. 	<ul style="list-style-type: none"> • Written correspondence from the Director-General. • Record of mitigation measures implemented, monitoring results and/or written agreement. • Market valuation and legal documents demonstrating attempted acquisition. 	<p>Enhance Place.</p> <p>Enhance Place.</p> <p>Enhance Place.</p>	<p>Following independent review.</p> <p>Following independent review.</p> <p>Upon written request following independent review.</p>
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA4/6	<p>(b) the reasonable costs associated with:</p> <ul style="list-style-type: none"> • relocating within the Mid-Western Regional local government area, or to any other local government area determined by the Director-General; and • obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and <p>(c) reasonable compensation for any disturbance caused by the land acquisition process.</p> <p>However, if at the end of this period, the Proponent and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Director-General for resolution.</p> <p>Upon receiving such a request, the Director-General will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:</p> <ul style="list-style-type: none"> • consider submissions from both parties; • determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above; • prepare a detailed report setting out the reasons for any determination; and • provide a copy of the report to both parties. <p>Within 14 days of receiving the independent valuer's report, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.</p>	<ul style="list-style-type: none"> • Refer matter to Director-General. • Provide a written binding offer of acquisition to relevant landowner in accordance with determination. 	<ul style="list-style-type: none"> • Correspondence to Director-General. • Legal documents demonstrating attempted acquisition. 	<p>Enhance Place.</p> <p>Enhance Place.</p>	<p>As required.</p> <p>Within 14 days of independent valuer's report.</p>

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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B1: ADMINISTRATIVE AND GENERAL REQUIREMENTS					
PA4/6	<p>However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the Director-General for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the Director-General will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report disputing the independent valuer's determination, and any other relevant submissions.</p> <p>Within 14 days of this determination, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the Director-General's determination.</p> <p>If the landowner refuses to accept the Proponent's binding written offer under this condition within 6 months of the offer being made, then the Proponent's obligations to acquire the land shall cease, unless the Director-General determines otherwise.</p>	<ul style="list-style-type: none"> • Prepare report outlining reasons for dispute. • Refer matter to Director-General. • Provide a written binding offer of acquisition to relevant landowner in accordance with determination. • Obtain written refusal from the landowner. 	<ul style="list-style-type: none"> • Report outlining reasons for dispute. • Correspondence to Director-General. • Legal documents demonstrating attempted acquisition. • Written refusal from the landowner. 	<p>Enhance Place</p> <p>Enhance Place</p> <p>Enhance Place</p>	<p>Within 14 days of independent valuer's report (if disputed).</p> <p>Within 14 days of Director-General's determination.</p> <p>Upon refusal of offer by landowner.</p>
PA4/7	The Proponent shall pay all reasonable costs associated with the land acquisition process described in Condition 6 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.	<ul style="list-style-type: none"> • Payment of acquisition costs. 	<ul style="list-style-type: none"> • Correspondence outlining costs met by Enhance Place. 	Enhance Place	Following acceptance of written offer for purchase.
SC6.7	Pay a financial contribution in accordance with the Lithgow Rural Roads Section 94 Contributions Plan - being 5 cents per tonne of coal transported per kilometre of Council road traversed.	<ul style="list-style-type: none"> • Payment of Section 94 contribution. 	<ul style="list-style-type: none"> • Payment receipt. 	Enhance Place	Annually

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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B2: DOCUMENTATION					
PA5/2	<p>The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <ul style="list-style-type: none"> (a) detailed baseline data; (b) a description of: <ul style="list-style-type: none"> • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; (d) a program to monitor and report on the: <ul style="list-style-type: none"> • impacts and environmental performance of the project; • effectiveness of any management measures (see c above); (e) a contingency plan to manage any unpredicted impacts and their consequences; (f) a program to investigate and implement ways to improve the environmental performance of the project over time; (g) a protocol for managing and reporting any: <ul style="list-style-type: none"> • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and (h) a protocol for periodic review of the plan. <p><i>Note: The Director-General may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i></p>	<ul style="list-style-type: none"> • Prepare management plans incorporating required components. 	<ul style="list-style-type: none"> • Approved management plans. 	Enhance Place (with assistance from consultants)	In accordance with conditional requirement for each management plan.

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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B2: DOCUMENTATION					
PA5/3	<p>By the end of April 2012, and annually thereafter, the Proponent shall review the environmental performance of the project to the satisfaction of the Director-General. This review must:</p> <ul style="list-style-type: none"> (a) describe the development (including any rehabilitation) that was carried out in the past year, and the development that is proposed to be carried out over the next year; (b) include a comprehensive review of the monitoring results and complaints records of the project over the past year, which includes a comparison of these results against the <ul style="list-style-type: none"> • the relevant statutory requirements, limits or performance measures/criteria; • the monitoring results of previous years; and • the relevant predictions in the EA; (c) identify any non-compliance over the past year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the project; (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and (f) describe what measures will be implemented over the next year to improve the environmental performance of the project. 	<ul style="list-style-type: none"> • Prepare AEMR incorporating required components. 	<ul style="list-style-type: none"> • AEMR and correspondence from Director-General confirming acceptance of each AEMR. 	Enhance Place.	By 31 April 2012.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B2: DOCUMENTATION					
PA5/4	<p>Within 3 months of:</p> <p>(a) the submission of an annual review under Condition 3 above;</p> <p>(b) the submission of an incident report under Condition 6 below;</p> <p>(c) the submission of an audit report under Condition 8 below; and</p> <p>(d) any modification to the conditions of this approval, (unless the conditions require otherwise),</p> <p>the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General.</p> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p>	<ul style="list-style-type: none"> Review and revise as required plans, strategies and programs as outlined. Provide any revised plans to Director-General for approval. 	<ul style="list-style-type: none"> Revised plan, strategy or program. Correspondence to Director-General. 	Enhance Place (with assistance of consultants)	Within 3 months of stated events.
PA5/6	The Proponent shall notify the Director-General and any other relevant agencies of any incident associated with the project as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident.	<ul style="list-style-type: none"> Notify Director-General of incident. Provide a written report to the Director-General and other relevant agencies with required information. 	<ul style="list-style-type: none"> Telephone record and written correspondence. Written report and correspondence to government agencies. 	Enhance Place	<p>As soon as practicable following incident.</p> <p>Within 7 days of the incident.</p>
PA5/7	The Proponent shall provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.	<ul style="list-style-type: none"> Upload to website all publicly available report required by the Project Approval. 	<ul style="list-style-type: none"> Updated website (Include date stamp for all reports uploaded onto website). 	Enhance Place	Suggested within 1 month of approval of any report.

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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Personnel Responsible	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B2: DOCUMENTATION					
PA5/8	<p>By the end of December 2011 and August 2013, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p> <ul style="list-style-type: none"> (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and (e) recommend appropriate measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under the abovementioned approvals. <p><i>Note: This audit team must be led by a suitably qualified auditor and include experts in any field specified by the Director-General.</i></p>	<ul style="list-style-type: none"> • Seek written approval from Director-General of independent auditor. • Commission independent environmental audit. 	<ul style="list-style-type: none"> • Correspondence from Director-General confirming approval of auditor • Independent audit report. 	Enhance Place	By 31 December 2011 and 31 August 2013.
PA5/9	<p>Within 6 weeks of the completion of this audit, or as otherwise agreed by the Director-General, the Proponent shall submit a copy of the audit report to the Director-General, together with its response to any recommendations contained in the audit report.</p>	<ul style="list-style-type: none"> • Submit independent audit report and response to recommendations to Director-General and relevant government agencies. 	<ul style="list-style-type: none"> • Correspondence to Director-General and government agencies. • Action plan responding to audit. 	Enhance Place	Within 6 weeks of each independent audit.
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**Table A2.1 (cont'd))
Implementation of Approval Conditions and Commitments**

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART B: ADMINISTRATIVE AND GENERAL REQUIREMENTS AND DOCUMENTATION					
B2: DOCUMENTATION					
PA5/10	<p>From the end of February 2011, the Proponent shall:</p> <p>(a) make copies of the following publicly available on its website:</p> <ul style="list-style-type: none"> • the documents referred to in Condition 2 of Schedule 2; • all current statutory approvals for the project; • all approved strategies, plans and programs required under the conditions of this approval; • the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs; • a complaints register, updated on a monthly basis; • minutes of CCC meetings; • the annual reviews of the project; • any independent environmental audit of the project, and the Proponent's response to the recommendations in any audit; • any other matter required by the Director-General; and <p>(b) keep this information up-to-date, to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> • Upload a copy of all stated documents, once approved, onto Company website. 	<ul style="list-style-type: none"> • Include date stamp for all reports uploaded onto website. 	Enhance Place	Suggested within 1 month of approval of any report.
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing																							
PART C: ENVIRONMENTAL MANAGEMENT																												
C1: NOISE																												
PA3/1	<p>The Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 1 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.</p> <p align="center"><i>Table 1: Noise Criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th rowspan="2">Location</th> <th>Day</th> <th>Evening</th> </tr> <tr> <th><i>L_{Aeq} (15 min)</i></th> <th><i>L_{Aeq} (15 min)</i></th> </tr> </thead> <tbody> <tr> <td>Residences 18, 32 and 33</td> <td align="center">42</td> <td align="center">39</td> </tr> <tr> <td>Residences 20-23, 25 and 27-29</td> <td align="center">42</td> <td align="center">36</td> </tr> <tr> <td>Residences 8, 10-12 and 14</td> <td align="center">42</td> <td align="center">35</td> </tr> <tr> <td>Residences 2, 5-7 and 35</td> <td align="center">35</td> <td align="center">35</td> </tr> <tr> <td>All other residences</td> <td align="center">35</td> <td align="center">35</td> </tr> <tr> <td>During construction and removal of the amenity bund</td> <td align="center">46</td> <td align="center">N/A</td> </tr> </tbody> </table> <p><i>Notes:</i></p> <ul style="list-style-type: none"> To identify the locations referred to in Table 1, see figures in Appendix 1; Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. <p>However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.</p>	Location	Day	Evening	<i>L_{Aeq} (15 min)</i>	<i>L_{Aeq} (15 min)</i>	Residences 18, 32 and 33	42	39	Residences 20-23, 25 and 27-29	42	36	Residences 8, 10-12 and 14	42	35	Residences 2, 5-7 and 35	35	35	All other residences	35	35	During construction and removal of the amenity bund	46	N/A	<ul style="list-style-type: none"> Undertake noise monitoring in accordance with Noise Monitoring Program. Review noise monitoring results against noise criteria. 	<ul style="list-style-type: none"> Noise monitoring results (include criteria in result summary). 	Enhance Place and Monitoring Consultant	Ongoing.
Location	Day		Evening																									
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PART C: ENVIRONMENTAL MANAGEMENT																	
C1: NOISE																	
PA3/2	<p>If the noise generated by the project exceeds the criteria in Table 2 at any residence on privately-owned land or on more than 25 percent of any privately-owned land, then upon receiving a written request for acquisition from the landowner, the Proponent shall acquire the land in accordance with the procedures in Conditions 6 - 7 of Schedule 4.</p> <p align="center"><i>Table 2: Noise acquisition criteria dB(A) L_{Aeq} (15min)</i></p> <table border="1"> <thead> <tr> <th>Location</th> <th>Day</th> <th>Evening</th> </tr> </thead> <tbody> <tr> <td>Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33</td> <td align="center">47</td> <td align="center">44</td> </tr> <tr> <td>Residences 2, 5-7 and 35</td> <td align="center">43</td> <td align="center">41</td> </tr> <tr> <td>All other residences</td> <td align="center">41</td> <td align="center">41</td> </tr> </tbody> </table> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • To identify the locations referred to in Table 2, see figures in Appendix 1; • Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. • For this condition to apply, the exceedances of the criteria must be systemic. 	Location	Day	Evening	Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33	47	44	Residences 2, 5-7 and 35	43	41	All other residences	41	41	<ul style="list-style-type: none"> • Commence acquisition process. 	<ul style="list-style-type: none"> • Documents required for acquisition process. 	Enhance Place	Following written request from affected landowners.
Location	Day	Evening															
Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33	47	44															
Residences 2, 5-7 and 35	43	41															
All other residences	41	41															
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Implementation of Approval Conditions and Commitments

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PART C: ENVIRONMENTAL MANAGEMENT																	
C1: NOISE																	
PA3/3	<p>If noise generated by the project is greater than or equal to the noise levels in Table 3 at any residence on privately owned land, the Proponent shall implement additional noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner.</p> <p>If within 3 months of receiving this request from the owner, the Proponent 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 Director-General for resolution.</p> <p align="center"><i>Table 3: Noise treatment criteria dB(A) $L_{Aeq}(15min)$</i></p> <table border="1"> <thead> <tr> <th>Location</th> <th>Day</th> <th>Evening</th> </tr> </thead> <tbody> <tr> <td>Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33</td> <td align="center">44</td> <td align="center">42</td> </tr> <tr> <td>Residences 2, 5-7 and 35</td> <td align="center">40</td> <td align="center">38</td> </tr> <tr> <td>All other residences</td> <td align="center">38</td> <td align="center">38</td> </tr> </tbody> </table> <p><i>Notes:</i></p> <ul style="list-style-type: none"> To identify the locations referred to in Table 3, see figures in Appendix 1; Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. For this condition to apply, the exceedances of the criteria must be systemic. 	Location	Day	Evening	Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33	44	42	Residences 2, 5-7 and 35	40	38	All other residences	38	38	<ul style="list-style-type: none"> Consult with landowner about suitable additional measures. Implement agreed additional noise mitigation measures. Refer matter to Director-General. 	<ul style="list-style-type: none"> Correspondence with landowner confirming agreed additional measures and completion / implementation of agreed measures. Correspondence to Director-General. 	<p>Enhance Place</p> <p>Enhance Place</p>	<p>Following request of affected landholder.</p> <p>After 3 months of request (if disputed).</p>
Location	Day	Evening															
Residences 8, 10-12, 14, 18, 20-23, 25, 27-29 and 32 - 33	44	42															
Residences 2, 5-7 and 35	40	38															
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PART C: ENVIRONMENTAL MANAGEMENT									
C1: NOISE									
PA3/4	<p>The Proponent shall take all reasonable and feasible measures to ensure that the traffic noise generated by the project does not exceed the traffic noise impact assessment criteria in Table 4.</p> <p align="center"><i>Table 4: Traffic noise impact assessment criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th>Road</th> <th>Day <i>L_{Aeq15 hour}</i></th> </tr> </thead> <tbody> <tr> <td>Castlereagh Highway (SH18)</td> <td>60</td> </tr> </tbody> </table> <p><i>Note:</i></p> <ul style="list-style-type: none"> Traffic noise generated by the project is to be measured in accordance with the relevant procedures in the DECCW's Environmental Criteria for Road Traffic Noise. 	Road	Day <i>L_{Aeq15 hour}</i>	Castlereagh Highway (SH18)	60	<ul style="list-style-type: none"> Undertake noise monitoring in accordance with Noise Management Plan. Review noise monitoring results against noise criteria. Implement additional noise management measures if required. 	<ul style="list-style-type: none"> Noise monitoring results and record of noise management measures implemented. 	Enhance Place and Monitoring Consultant	Ongoing.
Road	Day <i>L_{Aeq15 hour}</i>								
Castlereagh Highway (SH18)	60								
PA3/6	<p>The Proponent shall:</p> <p>(a) implement best practice noise management, including all reasonable and feasible noise mitigation measures to minimise the operational and road traffic noise generated by the project;</p> <p>(b) investigate ways to reduce the noise generated by the project;</p> <p>(c) report on these investigations and the implementation and effectiveness of these measures in the Annual Review, to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> Implement management measures outlined within Noise Management Plan. Undertake noise monitoring in accordance with Noise Management Plan. 	<ul style="list-style-type: none"> Noise monitoring results and report noise management measures implemented within AEMR. Correspondence from Director-General confirming acceptance of each AEMR. 	Enhance Place and Monitoring Consultant	Ongoing				
SC7.1	Regularly service all equipment used on-site to ensure the sound power levels remain at or below the levels used in the modelling to assess generated noise levels and compliance with the criteria.	<ul style="list-style-type: none"> Establish preventative maintenance program. 	<ul style="list-style-type: none"> Maintenance records. 	Mining Contractor	Ongoing.				

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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: ENVIRONMENTAL MANAGEMENT					
C1: NOISE					
SC7.2	Attend to local community concerns over construction, operational or transport noise.	<ul style="list-style-type: none"> Operate community / environmental hotline and implement complaints response procedures. Attend Community Consultative Committee meetings. 	<ul style="list-style-type: none"> Record of complaints received and follow up actions. Community Consultative Committee Meeting minutes. 	Enhance Place	Ongoing.
SC7.3	Construct the amenity bund on the southern side of the mine area.	<ul style="list-style-type: none"> Construct the amenity bund as proposed. 	<ul style="list-style-type: none"> Report progress and completion of bund through AEMR. 	Enhance Place and Mining Contractor	During the first 6 months of operation.
SC7.4	Position the drilling rig so that at least 3m of topographic shielding is provided to the south, if required, (this may be achieved using temporary bunding).	<ul style="list-style-type: none"> Position drill rig as proposed. Record activity of drill rig during compliance noise monitoring. 	<ul style="list-style-type: none"> Records of drill rig operation during monitoring and noise monitoring results. 	Enhance Place and Mining Contractor	Prior to the construction of the amenity bund.
SC7.5	Operate the pump behind at least a 1.5m noise barrier.	<ul style="list-style-type: none"> Ensure a 1.5m barrier is provided (where existing topographic shielding does not provide barrier). 	<ul style="list-style-type: none"> Records of pump operation during monitoring and noise monitoring results. 	Enhance Place	Ongoing.
SC7.6	Orientate the crusher with the open side facing northwards.	<ul style="list-style-type: none"> Ensure crusher is orientated as proposed. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Ongoing.
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing											
PART C: ENVIRONMENTAL MANAGEMENT																
C1: NOISE																
SC7.7	Operate the existing crushing plant only when new plant is not operating.	<ul style="list-style-type: none"> Ensure only one crushing plant operates at any one time. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Until existing plant is decommissioned											
C2: BLASTING																
PA3/8	<p>The Proponent shall ensure that the blasting on site does not cause exceedances of the criteria in Table 5.</p> <p><i>Table 5: Blast impact criteria</i></p> <table border="1"> <thead> <tr> <th>Location</th> <th>Airblast overpressure (dB(Lin Peak))</th> <th>Ground vibration (mm/s)</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Residence on privately-owned land</td> <td>115</td> <td>5</td> <td>5% of the total number of blasts over a period of 12 months</td> </tr> <tr> <td>120</td> <td>10</td> <td>0%</td> </tr> </tbody> </table>	Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance	Residence on privately-owned land	115	5	5% of the total number of blasts over a period of 12 months	120	10	0%	<ul style="list-style-type: none"> Conduct all blasts in accordance with Blast Management Plan. Monitor all blasts in accordance with Blast Management Plan. 	<ul style="list-style-type: none"> Report blast monitoring results through AEMR. 	Enhance Place and Blasting Contractor	Ongoing during blasting.
Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance													
Residence on privately-owned land	115	5	5% of the total number of blasts over a period of 12 months													
	120	10	0%													
PA3/9	The Proponent shall only carry out blasting on site between 10am and 3pm Monday to Friday inclusive. No blasting is allowed on weekends or public holidays, or at any other time without the written approval of Director-General.	<ul style="list-style-type: none"> Ensure blasting is only undertaken within approved times. 	<ul style="list-style-type: none"> Records of blast initiation. Report through AEMR. 	Enhance Place and Blasting Contractor	Ongoing during blasting.											
PA3/10	<p>The Proponent shall not carry out more than 1 blast a day on site, unless an additional blast is required following a blast misfire.</p> <p><i>Note: A blast may involve a number of explosions within a short period, typically less than two minutes.</i></p>	<ul style="list-style-type: none"> Ensure blasting is undertaken only once per day. 	<ul style="list-style-type: none"> Records of blast initiation. Report through AEMR. 	Enhance Place and Blasting Contractor	Ongoing during blasting.											
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: ENVIRONMENTAL MANAGEMENT					
C2: BLASTING					
PA3/11	<p>If the Proponent receives a written request from the owner of any privately-owned land within 2 kilometres of the approved open cut mining pit on site for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, or to have a previous property inspection report updated, then within 2 months of receiving this request the Proponent shall:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to:</p> <ul style="list-style-type: none"> • establish the baseline condition of the buildings and/or structures on the land or update the previous property inspection report; and • identify any measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and <p>(b) give the landowner a copy of the new or updated property inspection report.</p>	<ul style="list-style-type: none"> • Commission independent person to complete inspection upon written request. • Provide copy of report to landowner. 	<ul style="list-style-type: none"> • Inspection report from independent person. 	Enhance Place	Within 2 months of written request.
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**Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments**

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: ENVIRONMENTAL MANAGEMENT					
C2: BLASTING					
PA3/12	<p>If the owner of any privately-owned land within 2 kilometres of the approved open cut mining pit on site claims that the buildings and/or structures on his/her land have been damaged as a result of blasting on site, then within 2 months of receiving this claim the Proponent shall:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to investigate the claim; and</p> <p>(b) give the landowner a copy of the property investigation report. If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damages to the satisfaction of the Director-General. If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Director-General for resolution.</p>	<ul style="list-style-type: none"> Commission independent expert to complete investigation. Undertake repairs in accordance with results of investigation. Refer matter to Director-General. 	<ul style="list-style-type: none"> Inspection report from independent expert. Correspondence with landowner and Director-General confirming completion of required repairs. Correspondence to Director-General regarding disagreement. 	Enhance Place	<p>Within 2 months of written request.</p> <p>If disagreement arises.</p>
PA3/13	<p>The Proponent shall</p> <p>(a) implement best blasting management practice on site to:</p> <ul style="list-style-type: none"> protect the safety of people and livestock in the surrounding area; protect public or private property in the surrounding area; and minimise the dust and fume emissions of the blasting; <p>(b) co-ordinate the blasting on site with the of blasting all mines operating in the vicinity of the site to minimise the cumulative blasting impacts of the mines; and</p> <p>(c) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site, to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> Undertake blasting in accordance with Blast Management Plan (which incorporates the requirements of this condition. Report blasting operations through AEMR. 	<ul style="list-style-type: none"> AEMR and correspondence from Director-General confirming acceptance of each AEMR. 	Enhance Place	Ongoing during blasting operations.

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Implementation of Approval Conditions and Commitments

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PART C: ENVIRONMENTAL MANAGEMENT					
C2: BLASTING					
PA3/14	The Proponent shall not carry out blasting on site within 500 metres of any privately-owned land or any public road unless the Proponent has: (a) demonstrated to the satisfaction of the Director-General that the blasting can be carried out without compromising the safety of people, or damaging buildings and/or structures; and (b) updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the land or public road.	<ul style="list-style-type: none"> Do not undertake blasting within 500m of privately owned land or public road unless approved by Director-General. 	<ul style="list-style-type: none"> Blast management plan and correspondence from Director-General. 	Enhance Place and Blasting Contractor.	Ongoing during blasting.
SC8.1	Utilise deck charges and/or other suitable techniques to minimise ground vibration, overpressure and fly-rock.	<ul style="list-style-type: none"> Ensure suitable techniques are implemented. 	<ul style="list-style-type: none"> Report through AEMR 	Enhance Place and Blasting Contractor	For relevant blasts to achieve compliance
SC8.2	Utilise appropriate detonators and firing sequences to minimise ground vibration.	<ul style="list-style-type: none"> Ensure vibration is suitably controlled. 	<ul style="list-style-type: none"> Report through AEMR 	Enhance Place and Blasting Contractor	For relevant blasts to achieve compliance
SC8.3	Optimise use of stemming materials and/or other suitable techniques to minimise overpressure.	<ul style="list-style-type: none"> Ensure overpressure is suitable controlled. 	<ul style="list-style-type: none"> Report through AEMR 	Enhance Place and Blasting Contractor	All blasts
SC8.4	Optimise initiation sequence to minimise airblast overpressure and ground vibration.	<ul style="list-style-type: none"> Ensure overpressure and vibration are suitably controlled. 	<ul style="list-style-type: none"> Report through AEMR 	Enhance Place and Blasting Contractor	All blasts
SC8.5	Carry out all blasts strictly in accordance with the Blast Management Plan.	<ul style="list-style-type: none"> Ensure all blasts completed in accordance with Blast Management Plan. 	<ul style="list-style-type: none"> Report through AEMR 	Enhance Place and Blasting Contractor	All blasts
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: ENVIRONMENTAL MANAGEMENT					
C3: AIR QUALITY AND GREENHOUSE GAS					
PA3/16	The Proponent shall ensure that no offensive odours are emitted from the site, as defined under the POEO Act.	<ul style="list-style-type: none"> Undertake activities such that offensive odours are minimised. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Ongoing.
PA3/17	The Proponent shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Implement reasonable and feasible measures 	<ul style="list-style-type: none"> Report measures through AEMR. Correspondence from Director-General confirming acceptance of each AEMR. 	Enhance Place	Ongoing.
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Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing																							
PART C: ENVIRONMENTAL MANAGEMENT																												
C3: AIR QUALITY AND GREENHOUSE GAS																												
PA3/18	<p>The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that the particulate emissions generated by the project do not exceed the criteria listed in Tables 6, 7 and 8 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.</p> <p align="center"><i>Table 6: Long term criteria for particulate matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>^d Criterion</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>^a90 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>Annual</td> <td>^a30 µg/m³</td> </tr> </tbody> </table> <p align="center"><i>Table 7: Short term criterion for particulate matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>^d Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>^a 50 µg/m³</td> </tr> </tbody> </table> <p align="center"><i>Table 8: Long term criteria for deposited dust</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Maximum increase in deposited dust level</th> <th>Maximum total^d deposited dust level</th> </tr> </thead> <tbody> <tr> <td>^cDeposited dust</td> <td>Annual</td> <td>^b2 g/m²/month</td> <td>^a4 g/m²/month</td> </tr> </tbody> </table> <p><i>Notes for Tables 6-8:</i></p> <ul style="list-style-type: none"> ^a Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to other sources); ^b Incremental impact (i.e. incremental increase in concentrations due to the project on its own); ^c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and ^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agree to by the Director-General in consultation with DECCW. 	Pollutant	Averaging period	^d Criterion	Total suspended particulate (TSP) matter	Annual	^a 90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	^a 30 µg/m ³	Pollutant	Averaging period	^d Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 50 µg/m ³	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total ^d deposited dust level	^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month	<ul style="list-style-type: none"> Undertake monitoring in accordance with the Air Quality and Greenhouse Gas Management Plan. Review air quality monitoring results and implement any required additional dust control measures. 	<ul style="list-style-type: none"> Monitoring results. Record of any changes to dust control measures. 	Enhance Place	Ongoing.
Pollutant	Averaging period	^d Criterion																										
Total suspended particulate (TSP) matter	Annual	^a 90 µg/m ³																										
Particulate matter < 10 µm (PM ₁₀)	Annual	^a 30 µg/m ³																										
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Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing																										
PART C: ENVIRONMENTAL MANAGEMENT																															
C3: AIR QUALITY AND GREENHOUSE GAS																															
PA3/19	<p>If the particulate matter emissions generated by the project exceed the criteria in Tables 9, 10, and 11 at any residence on privately-owned land or on more than 25 percent of any privately owned land, then upon receiving a written request for acquisition from the landowner the Proponent shall acquire the land in accordance with the procedures in Conditions 6 - 7 of Schedule 4.</p> <p align="center"><i>Table 9: Long term acquisition criteria for particulate matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>^a Criterion</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>^a90 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>Annual</td> <td>^a30 µg/m³</td> </tr> </tbody> </table> <p align="center"><i>Table 10: Short term acquisition criteria for particulate matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>^a Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>^a150 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>^b50 µg/m³</td> </tr> </tbody> </table> <p align="center"><i>Table 11: Long term acquisition criteria for deposited dust</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Maximum increase in deposited dust level</th> <th>Maximum total deposited dust level</th> </tr> </thead> <tbody> <tr> <td>^cDeposited dust</td> <td>Annual</td> <td>^b2 g/m²/month</td> <td>^a4 g/m²/month</td> </tr> </tbody> </table> <p><i>Notes for Tables 9 - 11:</i></p> <ul style="list-style-type: none"> ^a Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to other sources); ^b Incremental impact (i.e. incremental increase in concentrations due to the project on its own); ^c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and ^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agree to by the Director-General in consultation with DECCW. 	Pollutant	Averaging period	^a Criterion	Total suspended particulate (TSP) matter	Annual	^a 90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	^a 30 µg/m ³	Pollutant	Averaging period	^a Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 150 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	24 hour	^b 50 µg/m ³	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month	<ul style="list-style-type: none"> Acquire all or part of affected landholding in accordance with <i>Schedule 4 Conditions 6 & 7.</i> 	<ul style="list-style-type: none"> Market valuation and legal documents demonstrating attempted acquisition. 	Enhance Place.	Upon written request.
Pollutant	Averaging period	^a Criterion																													
Total suspended particulate (TSP) matter	Annual	^a 90 µg/m ³																													
Particulate matter < 10 µm (PM ₁₀)	Annual	^a 30 µg/m ³																													
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PART C: ENVIRONMENTAL MANAGEMENT					
C3: AIR QUALITY AND GREENHOUSE GAS					
PA3/20	The Proponent shall: (a) implement best practice air quality management on site, including all reasonable and feasible measures to minimise the off-site odour, fume and dust emissions generated by the project, including those generated by any spontaneous combustion on site; and (b) minimise any visible air pollution generated by the project; and (c) regularly assess the air quality monitoring and meteorological forecasting data, and relocate, modify and/or stop operations on site to ensure compliance with the relevant conditions of this approval, to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Implement appropriate measures in accordance with Air Quality and Greenhouse Gas Management Plan. Undertake air quality monitoring in accordance with Air Quality and Greenhouse Gas Management Plan. Report measures and monitoring results through AEMR. 	<ul style="list-style-type: none"> AEMR and correspondence from Director-General confirming acceptance of each AEMR. 	Enhance Place	Ongoing.
SC9.1	Continue monitoring of PM10 at the existing monitoring site, this being representative PM10 level at the potentially worst affected receptor.	<ul style="list-style-type: none"> Continue to undertake monitoring. 	<ul style="list-style-type: none"> Report results through AEMR. 	Enhance Place and Monitoring Consultant	Ongoing
SC9.2	Increase frequency of PM10 sampling from once per six days to once per three days in the event that elevated PM10 levels are recorded.	<ul style="list-style-type: none"> Increase frequency of monitoring. 	<ul style="list-style-type: none"> Report results through AEMR. 	Enhance Place and Monitoring Consultant	In the event that elevated PM10 levels is recorded
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PART C: ENVIRONMENTAL MANAGEMENT					
C3: AIR QUALITY AND GREENHOUSE GAS					
SC9.3	Continue with implementation of dust mitigation practices associated with Pine Dale Coal Mine, including watering of disturbed areas and haul roads, and covering of product truck loads.	<ul style="list-style-type: none"> Continue to implement dust mitigation measures. 	<ul style="list-style-type: none"> Report implementation through AEMR. 	Enhance Place and Mining Contractor	Ongoing
SC9.4	Implement extra mitigation measures such as more watering, and modification of site activities.	<ul style="list-style-type: none"> Implement additional mitigation measures. 	<ul style="list-style-type: none"> Report implementation of any additional measures through AEMR. 	Enhance Place and Mining Contractor	If increased dust levels are recorded during windy conditions
SC9.5	Partially enclose the crusher and conveyors to minimise dust during processing.	<ul style="list-style-type: none"> Ensure crusher and conveyors partially enclosed. 	<ul style="list-style-type: none"> Report implementation through relevant AEMR. 	Enhance Place	Prior to crushing
SC9.6	Monitor deposited dust levels at six existing deposition gauges (D1-D6).	<ul style="list-style-type: none"> Ensure dust monitoring completed in accordance with Air Quality and Greenhouse Gas Management Plan. 	<ul style="list-style-type: none"> Report monitoring results through AEMR. 	Enhance Place and Monitoring Consultant	Ongoing
SC9.7	Review and submit dust monitoring results to DECCW as part of the Annual Environmental Management Report.	<ul style="list-style-type: none"> Submit monitoring results to OEH. 	<ul style="list-style-type: none"> Correspondence to OEH. 	Enhance Place	Annually
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PART C: ENVIRONMENTAL MANAGEMENT					
C3: AIR QUALITY AND GREENHOUSE GAS					
SC9.8	Optimise and schedule vehicle operations to minimise vehicle movements.	<ul style="list-style-type: none"> Regularly review vehicle operations and scheduling. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
SC9.9	Maintain engines according to manufacturers' guidelines and keep tyres at optimum pressure.	<ul style="list-style-type: none"> Ensure that preventative maintenance program is in place. 	<ul style="list-style-type: none"> Preventative maintenance program. 	Mining Contractor	Ongoing
SC9.10	Minimise as far as operationally practicable vehicle idling time.	<ul style="list-style-type: none"> Minimise vehicle idling time. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
C4: METEOROLOGICAL MONITORING					
PA3/22	During the life of the project, the Proponent shall ensure that there is a suitable meteorological station operating in the vicinity of the site that: <ul style="list-style-type: none"> (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and (b) is capable of continuously recording wind speed and direction, temperature and rainfall. 	<ul style="list-style-type: none"> Ensure meteorological station complies with conditional requirements. 	<ul style="list-style-type: none"> Report meteorological results through AEMR. 	Enhance Place and Monitoring Consultant	Ongoing
C5: SOIL AND WATER					
PA3/23	The Proponent shall ensure that all surface water discharges from the site comply with the discharge limits (both volume and quality) set for the project in any EPL.	<ul style="list-style-type: none"> Monitor water prior to discharge. 	<ul style="list-style-type: none"> Report monitoring results within AEMR. 	Enhance Place.	Prior to discharge of waters.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C5: SOIL AND WATER					
PA3/24	<p>The Proponent shall offset the loss of any baseflow to the surrounding watercourses and/or associated creeks caused by the project to the satisfaction of the Director-General.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> <i>This condition does not apply if the baseflow losses are negligible.</i> <i>Offsets should be provided via the retirement of adequate water entitlements to account for the loss attributable to the project.</i> 	<ul style="list-style-type: none"> Offset loss of baseflow through retirement of appropriate water entitlements. 	<ul style="list-style-type: none"> Correspondence with NSW Office of Water surrendering water entitlements. 	Enhance Place	In the event baseflows are impacted by the project.
PA3/25	<p>The Proponent shall provide a compensatory water supply to any owner of privately-owned land whose water entitlements are adversely impacted (other than an impact that is negligible) as a result of the project, in consultation with NOW, and to the satisfaction of the Director-General.</p> <p>The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the project. Equivalent water supply must be provided (at least on an interim basis) within 24 hours of the loss being identified.</p> <p>If the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.</p> <p>If the Proponent is unable to provide an alternative long-term supply of water, then the Proponent shall provide alternative compensation to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> Provide compensatory water supply or alternative compensation in consultation with NSW Office of Water. Refer the matter to the Director-General for resolution. 	<ul style="list-style-type: none"> Correspondence from Director-General confirming satisfaction of compensatory measures. Correspondence to Director-General 	Enhance Place Enhance Place	Within 24hrs of private water entitlements being impacted by the project. If dispute arises.
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C5: SOIL AND WATER					
SC1.1	Design the mine plan so that the interception of groundwater within the old Wallerawang Colliery underground workings is minimised.	<ul style="list-style-type: none"> Undertake mining so as to minimise groundwater interaction. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Ongoing
SC1.2	Manage the small amount of groundwater intercepted on site for use in dust suppression or other internal uses e.g. wash down.	<ul style="list-style-type: none"> Utilise intercepted groundwater such that it is not required to be discharged. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	As groundwater is intercepted
SC1.3	Install sumps in strategic locations in the open cut pit as the pit develops.	<ul style="list-style-type: none"> Install sumps so as to minimise interaction of surface water and groundwater inflows. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
SC1.4	Continue the existing groundwater monitoring regime but also include monitoring of the bore that has been installed within the Yarraboldy footprint and the old ventilation shaft next to the haul road.	<ul style="list-style-type: none"> Undertake additional groundwater monitoring. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Monitoring Consultant	Ongoing
SC1.5	Manage chemicals and hydrocarbons appropriately.	<ul style="list-style-type: none"> Ensure chemicals and hydrocarbons are stored and handled in accordance with appropriate standards. 	<ul style="list-style-type: none"> Report though AEMR. 	Enhance Place and Mining Contractor	Ongoing
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**Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments**

Ref No	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C5: SOIL AND WATER					
		•	•		
SC1.6	Manage any potentially acid-generating material by the selective placement of cover material.	<ul style="list-style-type: none"> Ensure that any potentially acid-generating material is handled in accordance with the Water Management Plan 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	As required
SC1.7	If a non-conformance with a nominated trigger value is determined to be the result of activities associated with the Project, then the impacted landholder and DECCW - NOW will be notified and a remediation strategy will be proposed for discussion and implementation.	<ul style="list-style-type: none"> Contact landholder and NOW and develop remediation strategy. 	<ul style="list-style-type: none"> Correspondence with landholder and NOW outlining remediation strategy. 	Enhance Place (with assistance from consultants)	If a non-conformance with a nominated trigger value is determined to be the result of activities associated with the Project.
SC2.1	Retain, for as long as practicable, selected surface water structures such as the existing dams, sediment retention points and clean water diversion banks.	<ul style="list-style-type: none"> Retain existing surface water structures. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	During construction period
SC2.2	Install temporary erosion and sediment control structures.	<ul style="list-style-type: none"> Install temporary sediment control structures in accordance with Water Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	During construction, site establishment, operational and rehabilitation phases
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C5: SOIL AND WATER					
SC2.3	Construct diversion and sediment retention structures for the capture of sediment-laden water for treatment.	<ul style="list-style-type: none"> Construct diversion and sediment structures in accordance with Water Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	During construction, site establishment, operational and rehabilitation phases
SC2.4	Prepare and implement a general Erosion and Sediment Control Plan (in accordance with the requirements of Landcom (2004)) to manage surface water flows within the Project Site.	<ul style="list-style-type: none"> Prepare as part of Water Management Plan. 	<ul style="list-style-type: none"> Water Management Plan. 	Enhance Place (with assistance of consultants)	Ongoing
SC2.5	Establish and maintain groundcover at 70% or better over areas disturbed and no longer required by the Project and as site conditions provide for practicability.	<ul style="list-style-type: none"> Establish and maintain groundcover as conditions permit. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Ongoing
SC2.6	Progressively rehabilitate disturbed areas no longer required by the Project soon after the cessation of mining activities.	<ul style="list-style-type: none"> Undertake progressive rehabilitation. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
SC2.7	Construct diversion bunds or utilise existing infrastructure to keep dirty water flow separate from clean water diversions bunds.	<ul style="list-style-type: none"> Construct diversion bunds in accordance with Water Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
SC2.8	Divert dirty water into sediment basin and Retention Dam A.	<ul style="list-style-type: none"> Construct diversion bunds in accordance with Water Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C5: SOIL AND WATER					
SC2.9	Divert clean water along clean water diversion bunds for flow into Neubecks Creek.	<ul style="list-style-type: none"> Construct diversion bunds in accordance with Water Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
SC2.10	Divert dirty water into sediment controls or suitable structures for treatment.	<ul style="list-style-type: none"> Construct water management structures in accordance with Water Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
SC2.11	Pump water from sediment basin into Retention Basin A for storage and use in dust-suppression activities on Project Site.	<ul style="list-style-type: none"> Pump water as required. 	<ul style="list-style-type: none"> Report water use through AEMR. 	Enhance Place and Mining Contractor	As required
SC2.12	Pump groundwater from in-pit sump into Retention Dam A for storage and use in mining operations and dust suppression.	<ul style="list-style-type: none"> Pump water as required. 	<ul style="list-style-type: none"> Report water use through AEMR. 	Enhance Place and Mining Contractor	As required
SC2.13	Install a sediment trap in the coal crushing/ stockpiling and maintenance area to remove coal fines from surface flows.	<ul style="list-style-type: none"> Install sediment trap in accordance with Water Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
SC2.14	Install an oil/water separating unit to receive potentially contaminated water from the maintenance and wash-down bay for further treatment in the sediment basin.	<ul style="list-style-type: none"> Install oil/water separator. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C5: SOIL AND WATER					
SC2.15	Monitor surface water quality for pH, EC, TSS, turbidity, oil and grease, filterable iron and sulfate ion concentrations.	<ul style="list-style-type: none"> Undertake water monitoring in accordance with Water Management Plan. 	<ul style="list-style-type: none"> Report results through AEMR. 	Enhance Place and Monitoring Consultant	Quarterly during surface flow events Daily during discharge for pH, EC and turbidity
SC2.16	Record the approximate volume and quality of water extracted from the in-pit sump for discharge off site.	<ul style="list-style-type: none"> Retain records of quality and quantity of water extracted. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Whenever required
SC11.1	Retain soils stripped from undisturbed areas of the Project Site for rehabilitation works.	<ul style="list-style-type: none"> Retain soils and store in accordance with Mining Operations Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	During site establishment, operational and rehabilitation phases
SC11.2	Develop appropriate soil management procedures for handling and stockpiling soils of the types found at the Project Site.	<ul style="list-style-type: none"> Develop required procedures. 	<ul style="list-style-type: none"> Procedures within Mining Operations Plan. 	Enhance Place (with assistance from consultants)	During site establishment, operational and rehabilitation phases
SC11.3	Develop appropriate soil and erosion management procedures to minimise soil erosion from stockpiles and stripped areas.	<ul style="list-style-type: none"> Develop required procedures. 	<ul style="list-style-type: none"> Procedures within Water Management Plan. 	Enhance Place (with assistance from consultants)	During site establishment, operational and rehabilitation phases
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C5: SOIL AND WATER					
SC11.4	Excavate and remove soils contaminated with hydrocarbons.	<ul style="list-style-type: none"> Excavate and appropriately dispose of contaminated soils 	<ul style="list-style-type: none"> Waste tracking records. Report through AEMR. 	Enhance Place and Mining Contractor	As soon as possible and within one month of contamination occurring
SC11.5	Remove contaminated soil (if the contamination is limited in area) to a designated location at the site (away from natural drainage) for the bio-remediation of the contaminated material.	<ul style="list-style-type: none"> Remove soil and bio-remediate. 	<ul style="list-style-type: none"> Certificates of analysis confirming contamination levels meet relevant standards. 	Enhance Place (with assistance from consultants)	As soon as possible and within one month of contamination occurring
SC11.6	Remove contaminated soil (if the contamination is widespread) and transport to a facility licensed to accept the specific type of contaminated material.	<ul style="list-style-type: none"> Excavate and appropriately dispose of contaminated soils 	<ul style="list-style-type: none"> Waste tracking records. Report through AEMR. 	Enhance Place and Mining Contractor	As soon as possible and within one month of contamination occurring
C6: BIODIVERSITY					
PA3/29	Within 6 months of the approval of the Biodiversity Offset Strategy (referred to in Condition 28 above), the Proponent shall make suitable arrangements to provide appropriate long-term security for the offset area in the strategy to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Provide security as required. 	<ul style="list-style-type: none"> Correspondence from Director-General confirming acceptability of security provided. 	Enhance Place	Within 6 months of Biodiversity Strategy (due Feb 2012).
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

**Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments**

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C6: BIODIVERSITY					
PA3/31	Within 3 months of the approval of the Biodiversity Management Plan, the Proponent shall lodge a conservation bond with the Department to ensure that the Biodiversity Offset Strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan. The sum of the bond shall cover the full cost of implementing the Biodiversity Offset Strategy and be verified by a suitably qualified rehabilitation expert or quantity surveyor. If the Biodiversity Offset Strategy is implemented to the satisfaction of the Director-General, the Director-General will release the conservation bond. If the offset strategy is not implemented to the satisfaction of the Director-General, the Director-general will call in all or part of the conservation bond, and arrange for the satisfactory implementation of the Biodiversity Offset Strategy.	<ul style="list-style-type: none"> Lodge conservation bond. 	<ul style="list-style-type: none"> Correspondence from Director-General confirming adequacy of bond. 	Enhance Place	Within 3 months of Biodiversity Management Plan (due Feb 2012).
SC3.1	Define and clearly mark vegetation for retention prior to the commencement of site establishment to ensure that impact on native vegetation is confined to those areas required for mining operations.	<ul style="list-style-type: none"> Ensure vegetation to be retained is clearly defined. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Prior to commencement of site establishment activities
SC3.2	Control noxious weeds on the Project Site.	<ul style="list-style-type: none"> Control noxious weed. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Ongoing
SC3.3	Utilise local native plant species and shrubs for rehabilitation and landscaping.	<ul style="list-style-type: none"> Utilise native species for rehabilitation. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	During rehabilitation and landscaping activities
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C6: BIODIVERSITY					
SC3.4	Undertake replacement planting of some of the same tree species and shrubs within the Project Site upon cessation of mining activities.	<ul style="list-style-type: none"> Complete rehabilitation in accordance with Rehabilitation Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	During rehabilitation and landscaping activities
SC3.5	Retain suitable bushrock with the topsoil and re-spread during the rehabilitation phase to return groundcover to near-original state.	<ul style="list-style-type: none"> Retain bushrock and re-spread during rehabilitation. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	During rehabilitation and landscaping activities
SC4.1	Identify the boundaries of disturbance and progressive disturbance to avoid clearing outside these boundaries.	<ul style="list-style-type: none"> Clearly define areas of disturbance. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Site establishment phase
SC4.2	Retain substantial habitat trees wherever possible.	<ul style="list-style-type: none"> Retain habitat trees. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Site establishment phase
SC4.3	Undertake any tree-felling in accordance with a prepared Tree Felling Protocol.	<ul style="list-style-type: none"> Undertake tree felling in accordance with procedures within Mining Operations Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Rehabilitation phase
SC4.4	Provide habitat for important target species such as the Purple copper butterfly through planting of appropriate flora species (eg. <i>Bursaria spinosa</i> spp <i>lasiophylla</i>).	<ul style="list-style-type: none"> Provide habitat in accordance with Rehabilitation Management Plan 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Rehabilitation phase
SC4.5	Progressively increase forest and woodland communities within the already disturbed areas, the coaly residue areas and the rehabilitated land, to provide foraging and sheltering habitat.	<ul style="list-style-type: none"> Undertake progressive rehabilitation to native forest and woodland. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Ongoing and rehabilitation phase
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C6: BIODIVERSITY					
SC4.6	Use nesting boxes if required and salvage hollows to assist in maintaining the short and long term habitat value for hollow dependent species.	<ul style="list-style-type: none"> Install nesting boxes in accordance with Biodiversity Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	Rehabilitation phase
C7: TRANSPORTATION					
PA3/33	The Proponent shall: <ol style="list-style-type: none"> keep accurate records of the: <ul style="list-style-type: none"> amount of coal transported from the site (on a monthly basis); and the date and time of loaded truck movements from the site; and provide the Director-General with a summary of these truck movements on a quarterly basis. 	<ul style="list-style-type: none"> Retain records as required by this condition. Provide required report to Director General. 	<ul style="list-style-type: none"> Records of product transport. Quarterly report to Director-General. 	Enhance Place and Transport Contractor	Ongoing. Quarterly
PA3/34	The Proponent shall only dispatch coal from the site by road between the hours of 7:00am to 8:00pm Monday to Saturday, excluding public holidays.	<ul style="list-style-type: none"> Ensure coal is dispatched only during the approved times. 	<ul style="list-style-type: none"> Records of product transport. 	Enhance Place and Transport Contractor	Ongoing.
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C7: TRANSPORTATION					
PA3/35	The Proponent shall ensure that: (a) all product coal is transported to the Mt Piper Power Station and the Wallerawang Power Station via the Private Haul Road (ie. Coal Link Road), except in an emergency situation and with the prior written approval of the Director-General; (b) a maximum of 100 000 tonnes of coal product is transported on Castlereagh Highway (SH18) in a calendar year, including a maximum of 30 000 tonnes transported to the east of the site on Castlereagh Highway (SH18) in a calendar year; (c) no transportation of coal via the Castlereagh Highway (SH18) is to occur past school bus stops during times when school buses are operating in the vicinity of the site; (d) no more than 10 coal product trucks per hour (20 movements) enter/exit the site via the Castlereagh Highway (SH18) during the day-time period; (e) no more than 4 coal product trucks per hour (8 movements) enter/exit the site via the Castlereagh Highway (SH18) during the evening period; and (f) no coal product trucks enter/exit the site during the night-time period.	<ul style="list-style-type: none"> Ensure that product is transported in accordance with the requirements of this condition. Request approval from Director-General for exemption. 	<ul style="list-style-type: none"> Product transport records including truck number, transport route, pay load, time of departure. Report compliance through AEMR. 	Enhance Place and Transport Contractor	Ongoing during product transportation. In the event emergency supply is required.
SC6.2	Install guide posts at all site entrances.	<ul style="list-style-type: none"> Install guide posts as required. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place	As required
SC6.3	Improve the sight distances at all entrances through removal of vegetation in RTA verges with RTA approval.	<ul style="list-style-type: none"> RTA approval to remove vegetation. Removal of vegetation. 	<ul style="list-style-type: none"> Correspondence to and from RTA demonstrating approval to remove vegetation and completion of removal. 	Enhance Place	As required
SC6.4	Construct an appropriate intersection with the Private Coal Haul Road to provide safe ingress and egress.	<ul style="list-style-type: none"> Construct intersection in accordance with relevant standards. 	<ul style="list-style-type: none"> Report through AEMR 	Enhance Place	During site establishment
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C7: TRANSPORTATION					
SC6.5	Implement a 'Surface Transport Management Plan' which incorporates safety and behaviour protocols.	<ul style="list-style-type: none"> Implement the 'Surface Transport Management Plan'. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Transportation Contractor	During site establishment and operations
SC6.6	Pay a financial contribution in accordance with the Lithgow Rural Roads Section 94 Contributions Plan - being 5 cents per tonne of coal transported per kilometre of Council road traversed.	<ul style="list-style-type: none"> Payment of applicable contribution. 	<ul style="list-style-type: none"> Payment receipt. 	Enhance Place	Annually
C8: VISUAL					
PA3/36	The Proponent shall: <ul style="list-style-type: none"> (a) minimise the visual impacts, and particularly the off-site lighting impacts, of the project; (b) take all practicable measures to further mitigate off-site lighting impacts from the project; and (c) ensure that all external lighting associated with the project complies with Australian Standard AS4282 (INT) 1995 - Control of Obtrusive Effects of Outdoor Lighting, to the satisfaction of the Director-General. 	<ul style="list-style-type: none"> Position lighting in accordance with relevant standards and to minimise off-site emissions. 	<ul style="list-style-type: none"> Report through AEMR. Correspondence from Director-General confirming acceptance of each AEMR. 	Enhance Place and Mining Contractor	Ongoing
PA3/37	The Proponent shall construct the amenity bund as described in the EA and rehabilitate all amenity bunds on-site in accordance with Condition 53 below.	<ul style="list-style-type: none"> Construct the amenity bund as proposed. Ensure amenity bund is suitably rehabilitated 	<ul style="list-style-type: none"> Report progress and completion of bund through AEMR. 	Enhance Place and Mining Contractor	During the first 6 months of operation.
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Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C8: VISUAL					
PA3/38	Upon receiving a written request from the owner of any residence on privately-owned land which has, or would have, significant direct views of the mining operations on site, the Proponent shall implement visual mitigation measures (such as landscaping treatments or vegetation screens) on the land in consultation with the landowner. These measures must be reasonable and feasible, and directed toward minimising the visibility of the mining operations from the residence. If within 3 months of receiving this request from the owner, the Proponent 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 Director-General for resolution.	<ul style="list-style-type: none"> Consult with landowner about suitable additional measures. Implement agreed additional noise mitigation measures. Refer matter to Director-General. 	<ul style="list-style-type: none"> Correspondence with landowner confirming agreed additional measures and completion / implementation of agreed measures. Correspondence to Director-General. 	Enhance Place Enhance Place	Following request of affected landholder. After 3 months of request (if disputed).
SC10.1	Construct the amenity bund on the southern side of the mine area.	<ul style="list-style-type: none"> Construct the amenity bund as proposed. 	<ul style="list-style-type: none"> Report progress and completion of bund through AEMR. 	Enhance Place and Mining Contractor.	During the first 6 months of operation.
SC10.2	Position / direct lighting so as to minimise off-site light emissions. Do not operate lighting when not required.	<ul style="list-style-type: none"> Position lighting in accordance with relevant standards to minimise off-site emissions. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor.	Ongoing
SC10.3	Maintain the mine in a tidy condition.	<ul style="list-style-type: none"> Ensure the mine is maintained in a tidy condition. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor.	Ongoing
C9: WASTE					
PA3/39	The Proponent shall: (a) minimise the waste generated by the project; and (b) ensure that the waste generated by the project is appropriately stored, handled and disposed of, to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Minimise the volume of waste generated. 	<ul style="list-style-type: none"> Report waste volumes within relevant AEMR's. Correspondence from Director-General confirming acceptance of each AEMR. 	Enhance Place	Ongoing.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C10: BUSHFIRE MANAGEMENT					
PA3/51	The Proponent shall: <ul style="list-style-type: none"> ensure that the development is suitably equipped to respond to any fires on-site; and assist the emergency services as much as possible if there is a fire on-site during the development. 	<ul style="list-style-type: none"> Ensure measures within Bushfire Management Plan are implemented. Provide assistance to emergency services as requested. 	<ul style="list-style-type: none"> Report through AEMR. 	Enhance Place and Mining Contractor	Ongoing and following request for assistance.
C11: REHABILITATION					
PA3/53	The Proponent shall rehabilitate the site to the satisfaction of the Director-General of I&I NSW. This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the EA, however the area to be returned to native woodland and forests vegetation (ie. Class VII land which is consistent with surrounding State Forest lands) must be increased to cover the area marked with cross-hatching on the figure in Appendix 3, to the satisfaction of the Director-General and of I&I NSW.	<ul style="list-style-type: none"> Ensure rehabilitation is undertaken in accordance with approved Rehabilitation Management Plan. 	<ul style="list-style-type: none"> Report through AEMR. Documentation provided for lease relinquishment (following completion) 	Enhance Place (with assistance from consultants)	Ongoing and following completion of mining.
PA3/54	The Proponent shall carry out the rehabilitation of the site progressively, that is, as soon as reasonably practicable following disturbance.	<ul style="list-style-type: none"> Undertake progressive rehabilitation wherever possible. Review rehabilitation progress and report within AEMR. 	<ul style="list-style-type: none"> AEMR and correspondence confirming satisfaction with AEMR. 	Enhance Place and Mining Contractor.	Ongoing and Annually.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Table A2.1 (cont'd)
Implementation of Approval Conditions and Commitments

Ref No*	Requirement	Actions Req'd to Achieve Compliance	Documentation Req'd to Demonstrate Compliance	Responsibility	Timing
PART C: OPERATIONAL AND ENVIRONMENTAL MANAGEMENT					
C12: HERITAGE					
SC5.1	Stop works at and in the immediate vicinity of any Aboriginal and European heritage sites or relics, if found.	<ul style="list-style-type: none"> Stop works at and adjacent to any Aboriginal sites found. 	<ul style="list-style-type: none"> Diarised notations. 	Enhance Place and Mining Contractor.	During site establishment, construction and operational phases of the Project.
SC5.2	Contact DECCW if any Aboriginal and European heritage sites or relics are found.	<ul style="list-style-type: none"> Contact OEH and report any Aboriginal sites found. 	<ul style="list-style-type: none"> Correspondence with OEH. 	Enhance Place.	During site establishment, construction and operational phases of the Project.
SC5.3	Receive authorisation from DECCW prior to proceeding with any works in the vicinity of any identified Aboriginal and European heritage sites or relics are found.	<ul style="list-style-type: none"> Seek authorisation from required stakeholders. 	<ul style="list-style-type: none"> Correspondence from OEH and Gundungurra Tribal Council confirming authorisation to proceed. 	Enhance Place	During site establishment, construction and operational phases of the Project.
* Reference Numbers prefixed PA = Project Approval Schedule / Condition, SC = Statement of Commitments Action					

Appendix 3

Summary of Environmental Monitoring

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Table A provides a summary of all the environmental monitoring requirements and timing for monitoring to be undertaken during the establishment / construction and operation of the Pine Dale Coal Mine – Yarraboldy Extension. More detailed information can be found in the following management plans and monitoring programs.

- Air Quality and Greenhouse Gas Monitoring Plan (PA 10_0041 *Schedule 3 Condition 21*).
- Noise Monitoring Plan (PA 10_0041 *Schedule 3 Condition 7*).
- Blast Management Plan (PA 10_0041 *Schedule 3 Condition 15*)-suspended during care and maintenance
- Water Management Plan (PA 10_0041 *Schedule 3 Condition 27*)

**Table A
Environmental Monitoring Program**

Environmental Aspect	Monitoring Type	Monitoring Site	Monitoring Frequency	Monitoring Parameters
Air Quality	Deposited Dust	DDG1,DDG2, DDG3, DDG4, DDG5, DDG6	Monthly	Deposited Dust (g/m ² /month)
	PM ₁₀	HVAS1	1 day in 6, on standard DECCW “run days”	PM ₁₀ (µg/m ³) TSP (µg/m ³)
Noise	Operational Noise	NM1, NM2, NM3, NM4, NM5, NM6	Quarterly	L _{Amax} , L _{A10} , and L _{Aeq} .
	Traffic Noise	NM1, NM2	Quarterly (if transport operations occurring via Castlereagh Highway)	L _{Aeq} .
Blasting	Noise and Vibration	Nearest residence	Each blast-not required	Vibration (mm/s)
				Overpressure (dB(Lin Peak))
Surface Water	Water Quality	Neubecks Creek U/S of Delta Electricity flow gauge (EPA Point 2)	Daily During Discharge at EPA Point 13	pH, EC, turbidity
			Quarterly	pH, EC, turbidity, TSS, sulfate, filterable Fe
	Water Quality	Discharge point – concrete lined section (EPA Point 13)	Daily During Discharge	pH, EC, turbidity, TSS, sulfate, filterable Fe, oil & grease
	Water Quality and Levels	Lamberts Gully D/S S1	Monthly	Water levels, pH, temp, EC, turbidity,
			Quarterly	DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)
	Water Levels	Neubecks creek at the bridge (Site office) S2	Quarterly	Water levels
	Water Quality	Neubecks Creek (EPA Point 3)	Daily During Discharge at EPA Point 13	pH, EC, turbidity
			Monthly	pH, temp, EC, turbidity,
Quarterly			DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)	

Table A (Cont'd)
Environmental Monitoring Program

Environmental Aspect	Monitoring Type	Monitoring Site	Monitoring Frequency	Monitoring Parameters
Surface Water (Cont'd)	Water Quality	Coxs river u/s of Blue lake S4	Quarterly	pH, temp, EC, turbidity,
			Quarterly	DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)
	Water Quality	Blue lake u/s of Neubecks creek confluence S5	Quarterly	pH, temp, EC, turbidity,
			Quarterly	DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)
	Water Quality	Neubecks Creek d/s of discharge point S6	Quarterly	pH, temp, EC, turbidity,
			Quarterly	DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)
	Water Quality	EPA Point 14 –Coxs River downstream of the Neubecks creek confluence	Quarterly	EC, pH, turbidity, sulphate, TSS, filterable Fe
	Water Quality	Coxs river d/s of Neubecks creek confluence S7	Monthly	pH, temp, EC, turbidity,
			Quarterly	DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)
			Six Monthly	Major ions, metals: As, Cd, Cr, Cu, Ni, Pb, Zn and Fe
	Water Level and Quality	P2 [#] (10BL165933)	Monthly	Water levels, pH, EC
			Quarterly	Water levels, pH, EC, major ions, Fe
	Water Level and Quality	P3 [#] (10BL165933)	Monthly	Water levels, pH, EC
			Quarterly	Water levels, pH, EC, major ions, Fe
	Water Level and Quality	P6 (10BL165933)	Monthly	Water levels, pH, temp, EC, turbidity, DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)
	Water Level and Quality	P7 (10BL165933)	Monthly	Water levels, pH, EC
			Quarterly	Water levels, pH, EC, major ions, Fe
	Water Level	EP DDH3/GW (10BL603588)	Monthly	Water levels
	Water Level and Quality	EP DDH4/GW (10BL603588)	Monthly	Water levels
			Quarterly	pH, temp, EC, TDS, major ions, metals: As, Cd, Cr, Cu, Ni, Pb, Zn and Fe
Water Level	EP DDH5/GW (10BL603588)	Monthly	Water levels	
Water Level	EP DDH6/GW (10BL603588)	Monthly	Water levels	
Water Level and Quality	EP DDH7/GW (10BL603588)	Monthly	Water levels	
		Quarterly	pH, temp, EC, TDS, major ions, metals: As, Cd, Cr, Cu, Ni, Pb, Zn and Fe	
Water Level and Quality	EP PDH1/GW (10BL603588)	Monthly	Water levels	
		Quarterly	pH, temp, EC, TDS, major ions, metals: As, Cd, Cr, Cu, Ni, Pb, Zn and Fe	
Water Level	EP PDH3GW (10BL603591)	Monthly	Water levels	

Table A (Cont'd)
Environmental Monitoring Program

Environmental Aspect	Monitoring Type	Monitoring Site	Monitoring Frequency	Monitoring Parameters
Groundwater (Cont'd)	Water Level	EP PDH4/GW (10BL603591)	Monthly	Water levels
	Water Level and Quality	EP PDH7/GW (10BL603588)	Monthly	Water levels,
			Quarterly	pH, temp, EC, TDS, major ions, metals: As, Cd, Cr, Cu, Ni, Pb, Zn and Fe
			Monthly	Water levels, pH, temp, EC, turbidity, DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)
	Water Level and Quality	Old ventilation shaft (licence being prepared)	Fortnightly (during dewatering)-not required	Water levels, pH, temp, EC, turbidity,
			Monthly	Water levels, pH, temp, EC, turbidity,
			Quarterly	DO, TSS, oil and grease, major ions, dissolved metals (Fe, Mn, Ni, Co, Zn)
	Water Level and Quality	The Bong (10BL604438)	Fortnightly (during dewatering)-not required	Flow (measured by flowmeter), water levels, pH, EC, turbidity
			Monthly	Water levels, pH, EC, turbidity
			Quarterly	Major ions, metals: As, Cd, Cr, Cu, Ni, Pb, Zn and Fe

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