

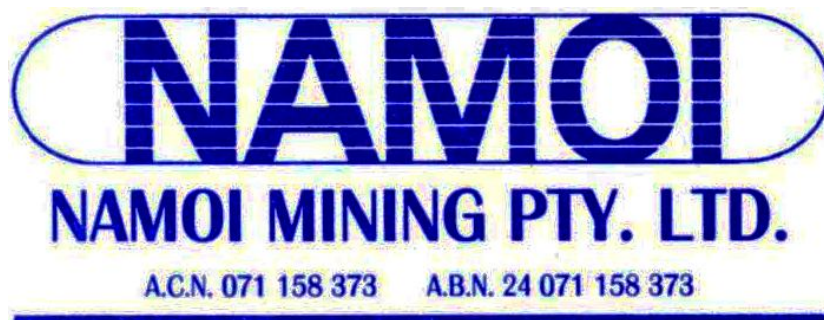
NAMOI

NAMOI MINING PTY. LTD.

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***Environmental
Management Strategy
for the
Sunnyside Coal Mine***



Environmental Management Strategy

for the

Sunnyside Coal Mine

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GLOSSARY OF ACRONYMS

AEMR	-	Annual Environmental Management Report
ANZECC	-	Australian and New Zealand Environment Consultative Council
CCC	-	Community Consultative Committee
CHPP	-	Coal Handling and Preparation Plant
PA	-	Project Approval
DECC	-	Department of Environment and Climate Change
DG	-	Director General of Department of Planning, or delegate
DoP	-	Department of Planning
DPI-A	-	Department of Primary Industries - Agriculture
DPI-F	-	Department of Primary Industries - Fisheries
DPI-MR	-	Department of Primary Industries - Mineral Resources
EA	-	Environmental Assessment
EMS	-	Environmental Management Strategy
EP&A Act	-	Environmental Planning and Assessment Act 1979
EP&A Regulation	-	Environmental Planning and Assessment Regulation 2000
EPL	-	Environmental Protection Licence
GSC	-	Gunnedah Shire Council
MOP	-	Mining Operations Plan
NMPL	-	Namoi Mining Pty Ltd
NP&W Act	-	National Parks and Wildlife Act 1974
ROM	-	Run-of-mine
RTA	-	Roads and Traffic Authority
WCL	-	Whitehaven Coal Limited

1 INTRODUCTION

The Sunnyside Coal Mine (“the mine”) is located approximately 15km west of Gunnedah and 2km north of the Oxley Highway (see **Figure 1**). Project Approval (PA) 06_0308 was granted for the mine by the Minister for Planning on 24th September 2008. A copy of PA 06_0308 is provided in **Appendix 1**. The mine is being developed by Namoi Mining Pty Ltd, a wholly owned subsidiary company of Whitehaven Coal Limited, as an open cut mining operation.

This Environmental Management Strategy (EMS), which forms part of the integrated Mine Management System, describes the overall framework for environmental management on the mine site and for the entire transport route to the Whitehaven Coal Handling and Preparation Plant (CHPP). The EMS also addresses the principal strategies to be adopted, including compliance management and monitoring, conflict resolution and consultation / information dissemination processes.

The operations at the mine will be managed in an integrated manner:

- in accordance with the Project Approval, leases and approvals from the Department of Primary Industries (Mineral Resources) (DPI-MR), the mine’s Environment Protection Licence (EPL) and other licences and approvals from government agencies; and
- in a way which provides for the effective control of all aspects of the operation throughout the life of the mine, i.e. from pre-site development planning, through the site development, construction and operational phases, and culminating in the mine’s decommissioning, final rehabilitation and, ultimately, lease relinquishment and/or satisfaction of long-term performance objectives or obligations.

The requirements of PA 06_0308 with respect to the timing for submission and contents of the EMS are contained within *Condition 5(1)* which is as follows:

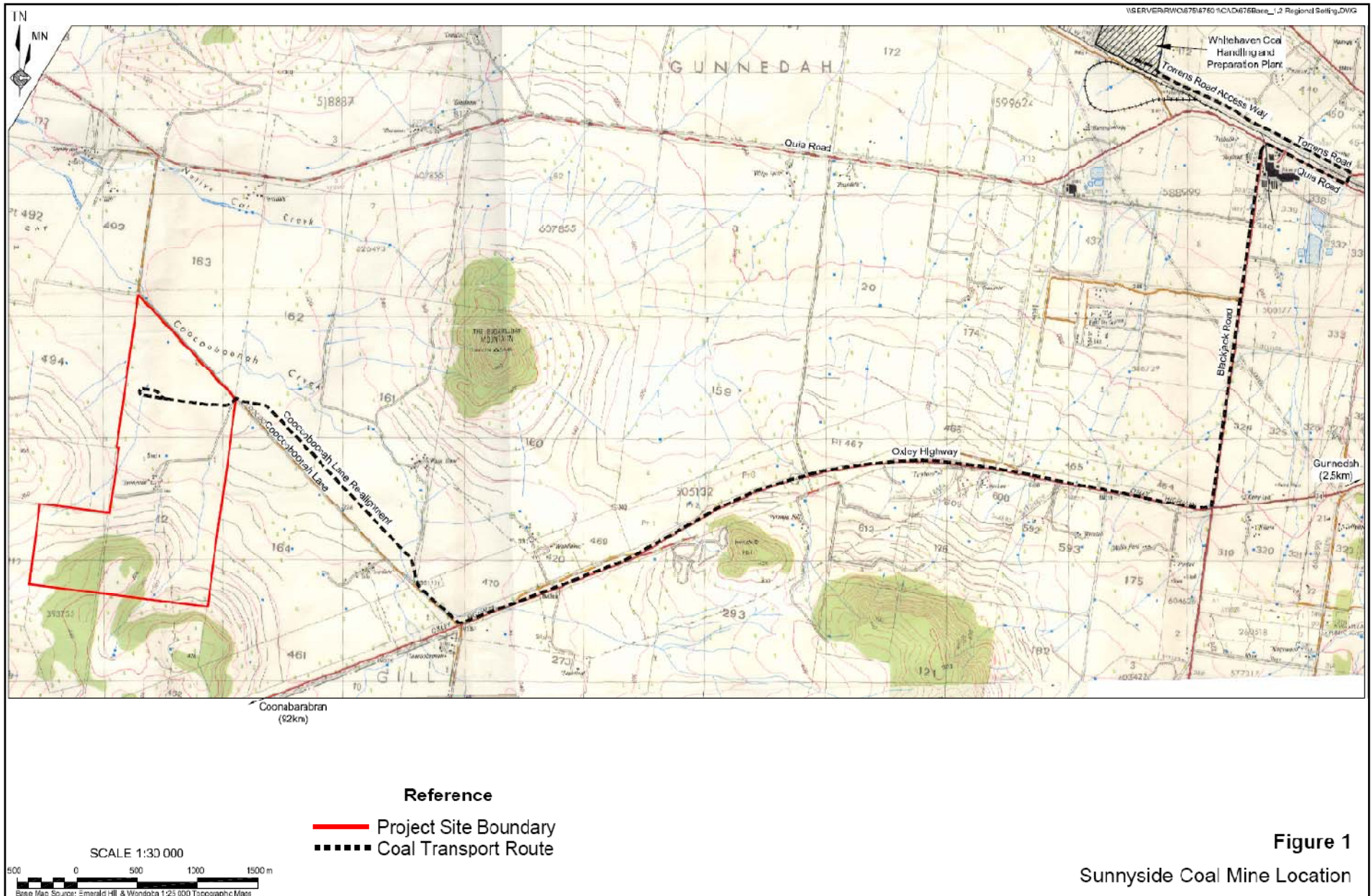
Schedule 5
ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING

Note: This schedule must be read in conjunction with section 18 of the Statement of Commitments.

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 be submitted to the Director-General prior to the commencement of construction activities, and:

- (a) provide the strategic context for environmental management of the project;
- (b) identify the statutory requirements that apply to the project;
- (c) describe in general how the environmental performance of the project would be monitored and managed;
- (d) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the project;
 - respond to any non-compliance;
 - manage cumulative impacts; and
 - respond to emergencies; and
- (e) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project.



2 DESCRIPTION OF THE SUNNYSIDE COAL MINE DEVELOPMENT

The Sunnyside Coal Mine lies within a 231ha site covered by a mining lease (MLA 321), of which the entire area occurs within the "Sunnyside" property owned by NMPL. The grant of the mining lease is a pre-requisite for the commencement of the mining activities approved under PA 06_0308.

The development of the mine, which has an expected life of approximately 5 to 7 years based upon a maximum production rate of 1.0Mtpa Run-of-mine (ROM) coal, will involve the following activities and features as shown in **Figure 2**:

- Construction of the mine entrance and internal access roads from Coocoooonah Lane.
- Coal mining by open cut methods over an area of approximately 43ha.
- Placement of overburden materials from the open cut area with a combination of out-of-pit and in-pit emplacements
- On-site crushing and temporary stockpiling of mined coal within a coal processing area to the north of the open cut pit. This coal processing area will have a 10 to 15 metre amenity bund constructed along the northern and western boundaries.
- Construction/establishment of a coal transport route between the mine site and Whitehaven Coal Handling and Preparation Plant (CHPP) and rail Loading Facility at the Whitehaven Siding.
- Transportation of coal from the mine to the Whitehaven Rail Loading Facility for dispatch via rail to Newcastle
- Management of surface water and sediment, and soil erosion control.
- Installation of a range of services, structures and relocated and transportable buildings
- Progressive shaping and rehabilitation of the mine area and other disturbed areas. Emphasis will be placed on revegetation to enhance and restore Koala habitat.

The mine is to be sub-divided into a construction, or development stage, and an operational, or production stage. **Table 2.1** summarises the operating hours and relevant conditions for construction, operations (excluding blasting), blasting, and product coal transportation.

**Table 2.1
Approved Hours of Operation**

Activity	PA 06_0308 Condition	Monday to Friday	Saturday	Sunday
<i>Construction*</i>	Condition 2(8)	7:00am to 6:00pm	7:00am to 4:00pm	-
<i>Mining and Processing Activities*</i>	Condition 2(9)	7:00am to 10:00pm	7:00am to 6:00pm	-
<i>Blasting*</i>	Condition 3(12)	10:00am to 5:00pm	10:00am to 2:00pm	-
<i>Product Coal Dispatch*</i>	Condition 2(10)	7:00am to 6:00pm**	7:00am to 4:00pm	-
<i>Maintenance*</i>	Condition 2(9)	7:00am to 6:00pm	7:00am to 4:00pm	-
* Except public holidays				
** May be extended to 8:00pm during eastern summer time				

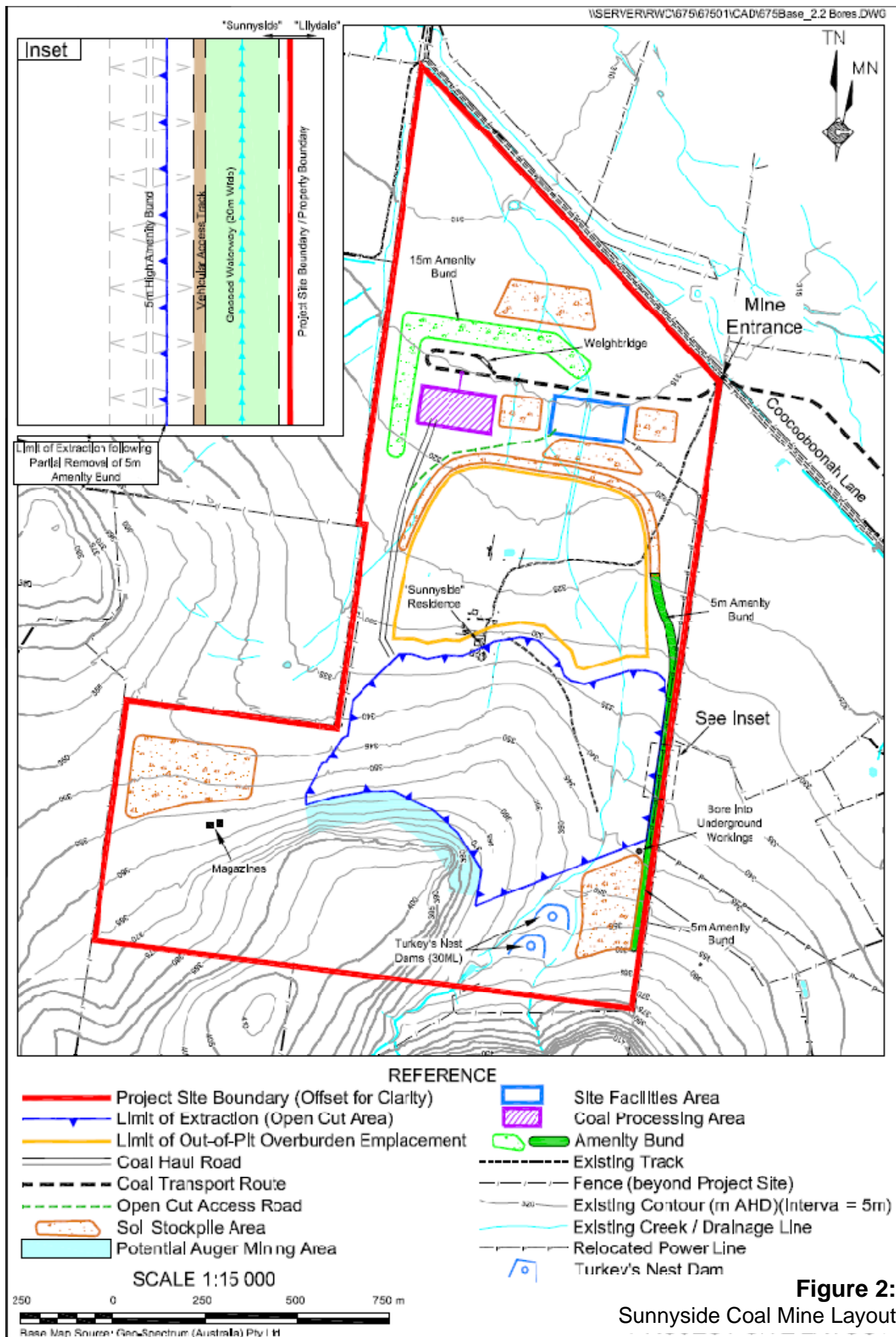


Figure 2:
Sunnyside Coal Mine Layout

3 STATUTORY REQUIREMENTS

3.1 Approvals, Licences, Permits and Leases

All activities at or in association with the Sunnyside Coal Mine will be undertaken in accordance with the following approvals, licences, permits and leases which have been issued or are pending issue.

- Project Approval (PA) 06_0308. Granted by the Minister for Planning under Section 75J of the *Environmental Planning and Assessment Act 1979* (see **Appendix 1**).
- The prescribed conditions of a mining lease issued by the Department of Primary Industries – Mineral Resources, under section 51 of the *Mining Act 1992*. An application for a mining lease has been lodged and its grant is pending.
- The conditions of an approval under Section 134.1(h) of the *Coal Mines Regulation Act 1982* (relating to the commencement of operations).
- The conditions of an Environment Protection Licence issued under the *Protection of the Environment Operations Act 1997*. (An application for an EPL has been lodged with DECC and its issue is pending).
- Water licences issued by the Department of Water and Energy under section 116 of the *Water Act 1912*.
- Approval for roadworks on a classified State road (Oxley Highway) issued by the RTA under Section 75 of the *Roads Act 1992*.
- Road construction permits, from Gunnedah Shire Council under Section 138 of the *Roads Act 1993*.
- A licence issued by the Work Cover Authority under the *Dangerous Goods Act 1975* (for explosives magazines and fuel storage).
- Construction and Occupation Certificates for proposed building works issued by Gunnedah Shire Council under Part 4A of the *Environmental Planning and Assessment Act 1979*.

3.2 Legislation

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

- *Mining Act 1992*.
- *Dangerous Goods Act 1975*.
- *Coal Mine Health and Safety Regulation 2006*.
- *Occupational Health and Safety Act 2000*.
- *Environmental Planning and Assessment Act 1979*.
- *Protection of the Environment Operations Act 1997*.
- *National Parks and Wildlife Act 1974*.
- *Water Act 1912*.
- *Water Management Act 2000*.

- *Roads Act 1993.*
- *Local Government Act 1993.*
- *Contaminated Land Management Act 1997.*
- *Soil Conservation Act 1938.*
- *Threatened Species Conservation Act 1995.*

3.3 Policies and Guidelines for Mining

The Following policies and guidelines issued by the Department of Primary Industries – Mineral Resources are, or are potentially, of relevance to the integrated Mine Management System for the Sunnyside Coal Mine;

- EDP01 Environmental Policy for Exploration and Mining.
- EDP02 Exploration and Resource Assessment: Environmental Policy Implementation Principles.
- EDP03 Application and Approval of Mining: Environmental Policy Implementation Principles.
- EDP04 Mining Operations: Environmental Policy Implementation Principles.
- EDP05 Environmental Policy Implementation Principles: Rehabilitation and Mine Closure.
- EDP06 Compliance and Enforcement
- EDG01 Borehole Sealing Requirements on Land: Coal Exploration;
- EDG02 Borehole Sealing Requirements on Beds of Waterbodies: Coal Exploration.
- EDG03 Guidelines to the Mining, Rehabilitation and Environmental Management Process (version 3).
- EDG10 Exploration Surface Disturbance Notice.
- MDG1002 Environmental Management Plans and Guidelines for Annual Reporting for Coal Leases NSW.
- MDG1006 Spontaneous Combustion Management Code.
- MDG1010 Risk Management Handbook for the Mining Industry.
- MDG1025 Guideline for the Use of Explosives in Open Cut Coal Mines.

3.4 Miscellaneous Standards and Guidelines

3.4.1 Standards

The following standards are, or are potentially, of relevance to the integrated Mine Management System for the Sunnyside Coal Mine. 'AS' refers to an "Australian Standard", 'NZS' refers to "New Zealand Standard" and 'ISO' refers to the "International Standards Organisation".

- AS 2922 1987 Ambient Air – Guide for Siting of Sampling Units.
- AS 2923 1987 Ambient Air – Guide Horizontal Wind for Air Quality Application.
- 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 2187.2 1993 Explosives – Storage, Transport and Use – Use of Explosives.
- 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 – 2002 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 – 2003 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – Total Suspended Particulate Matter (TSP) – High volume sampler gravimetric method.
- ISO 19011 – 2002 – Guidelines for Quality and/or Environmental Systems Auditing.

3.4.2 Guidelines

The following guidelines are, or are potentially, of relevance to the integrated Mine Management System for the Sunnyside Coal Mine.

- NSW EPA Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (EPA, 1998).
- NSW EPA Approved Methods and Guidance for Modelling in Assessment of Air Pollutants in NSW (EPA, 2001).
- Guidelines for Best Practice Community Consultation in the NSW Mining and Extractive Industries (NSW Minerals Council, 1999).
- Managing Urban Stormwater: Soils and Construction (Department of Housing and Landcom, 2004).
- Managing Urban Stormwater: Council Handbook (EPA, 1997).
- NSW EPA Environmental Noise Management – NSW Industrial Noise Policy (EPA, 2000).

- Environmental Noise Control Manual (EPA, 1994).
- NSW EPA Environment Criteria for Road Traffic Noise (EPA, 1999).
- Australian Dangerous Goods Code 6th Edition.

4 ENVIRONMENTAL MANAGEMENT RESPONSIBILITY, PERSONNEL AND ROLES

NMPL recognises that the success of Sunnyside Coal Mine's development from a corporate, neighbour, and broader community perspective will be enhanced through the achievement of the following objectives;

- (i) The development of a sense of project ownership, community membership and environmental responsibility by all NMPL and contracted personnel.
- (ii) A recognition and acceptance of the physical, biological and social sensitivities of the site by all NMPL and contracted personnel.
- (iii) 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.
- (iv) 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 General Manager and Board of Directors of Namoi Mining Pty Ltd. Overall site-based responsibility for all activities and all personnel on the mine site, including their compliance with all applicable laws, regulations, licences, approvals, the conditions of PA 06_0308 and achievement of the desired environmental outcomes, will be the responsibility of the Mine Manager.

In addition to his overarching site-based responsibility, the Mine Manager will be specifically responsible for:

- ensuring all contractors, sub-contractors and service-personnel are appropriately qualified and/or licensed 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 community.

An Environmental Officer will also be appointed by NMPL to monitor environmental performance on the mine site. The Environmental Officer will assist the Mine Manager and have the responsibility (and equal authority) to ensure all personnel conform to the requirements of the relevant environmental laws and regulations, consents, licences, approvals and environmental management systems and plans.

Specifically, the Environmental Officer will be responsible for:

- management / implementation of the various management plans;
- considering and advising on matters identified in the project approval and compliance with those conditions, and other environmental matters;

- receipt and response to complaints;
- co-ordination / management of effective monitoring programs;
- environmental reporting;
- site rehabilitation;
- keeping abreast of applicable new developments in environmental research and technology as it applies to environmental management on mine sites; and
- post-induction education and contact with all site-based NMPL and contracted employees on environmental matters.

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

Figure 3 presents an overall environmental organisational structure for the mine.

5 ENVIRONMENTAL PERFORMANCE – MANAGEMENT AND MONITORING

5.1 Introduction

The success of NMPL's environmental performance on the mine site will be assessed by way of its satisfaction of the conditions of PA 06_0308, Conditions of Authority appended to the mining lease, and conditions within the Environment Protection Licence (EPL), other approvals, licences or leases. This, in turn, will be measured by way of achievement of key performance outcomes and satisfaction of NMPL's objectives with respect to the management of:

- Aboriginal and Cultural Heritage
- Flora and Fauna
- Erosion and Sediment Control
- Soil Resources
- Bushfire
- Surface and Groundwater
- Air Quality
- Noise
- Blasting
- Visibility
- Waste
- Transport
- Rehabilitation
- Socio-economic Matters

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 identify NMPL's objectives and key performance outcomes with respect to each of the above areas, with the key performance outcomes being used as a means by which NMPL and others can assess progress towards the achievement of the nominated objectives. Specific monitoring programs, either those developed in satisfaction of the development consent or other leases, licences or approvals (or others developed independently by NMPL), will be progressively appended to this document and updated as warranted.

5.2 Aboriginal and Cultural Heritage

Archaeological investigations of the mine site and transport route undertaken during the preparation of the Environmental Assessment (EA) identified four Aboriginal Heritage sites (refer to Aboriginal and Cultural Heritage Management Plan). Two of these sites are isolated artefacts (Sunnyside ISO1 & Sunnyside ISO2), one is an axe-grinding groove (Sunnyside AGG1) and the final site is an artifact scatter (Sunnyside OS1). Of these sites, none would be directly impacted by the mine, as the only Aboriginal Heritage site located within the site boundary being the axe-grinding groove (Sunnyside AGG1). The axe-grinding groove (Sunnyside AGG1) is located in an area on site that is to be kept and managed as native vegetation and will not be disturbed.

No Aboriginal Heritage sites were identified along the transport route.

The development of the mine as a whole will not directly disturb any of the recorded sites. However, in line with the recommendations of the Aboriginal Groups consulted (Red Chief Local Aboriginal Land Council, Bigundi Biame Gunnedarr Traditional People, Min Min Aboriginal Corporation and Gunida Gunyah Aboriginal Corporation), the axe grinding groove within the mining lease will be protected from potential impacts of fly-rock during blast activity by placement of straw matting over the grooves during blasting events.

Educational measures are to be undertaken to identify, and educate on the importance of Aboriginal Heritage sites to all site-based NMPL employees and contractors. This will ensure appropriate measures are followed in the event of additional heritage sites being uncovered during the mine development.

No sites of European heritage significance were identified in the vicinity of the mine site or the transport route.

Table 5.1 presents the objectives of cultural heritage management along with the key performance outcomes

**Table 5.1
Objectives and Key Performance Outcomes – Aboriginal and European Heritage**

OBJECTIVES	KEY PERFORMANCE OUTCOMES
ABORIGINAL HERITAGE	
<p>(a) To protect and preserve the single known Aboriginal heritage site within the mine lease area and be aware of the three other identified sites within proximity of the mine lease area.</p> <p>(b) To establish and maintain regular consultation with local Aboriginal community representatives.</p> <p>(c) To ensure development (i.e. soil disturbing) activities in culturally sensitive areas are monitored by local Aboriginal community representatives.</p> <p>(d) To establish procedures to manage any additional sites encountered during site development or mining in accordance with the requirements of the Aboriginal Cultural Heritage Management Plan and the DECC.</p> <p>(e) To ensure all personnel working on the mine site are aware of cultural sensitivities and the obligations, responsibilities and procedures under the NP&WS Act 1974 and NSW Heritage Act 1977.</p> <p>(f) To develop contingency plans and reporting procedures which will be implemented in the event of damage to any site.</p> <p>(g) To prepare an Aboriginal Cultural Heritage Management Plan which addresses objectives (a) to (f) for the mine site and transport route.</p>	<p>(i) Nominated representatives of Local Aboriginal groups are invited to monitor soil disturbing activities.</p> <p>(ii) Aboriginal heritage site AGG1 will be appropriately cordoned off and marked as “Culturally Sensitive Area – Aboriginal Heritage Site” both at the site and on all mine plans.</p> <p>(iii) Damage to the AGG1 avoided by implementation of measures to protect the site during blasting activity.</p> <p>(iv) NMPL employees and contractors will be notified of the location and significance of Aboriginal heritage sites.</p> <p>(v) Joint development and successful implementation of a conservation program for Aboriginal cultural heritage.</p> <p>(vi) Joint development and successful implementation of a consultation protocol.</p> <p>(vii) Implementation of jointly agreed measures to protect the Aboriginal heritage sites.</p> <p>(viii) Development and implementation of procedures for notification and avoidance / protection pending permission to proceed.</p> <p>(ix) Procedures incorporated as part of site induction and education program for all site workers and contractors.</p> <p>(x) Plans prepared in consultation with DECC, local Aboriginal community representatives and approved by DG (DoP) prior to commencement of the development.</p>
EUROPEAN HERITAGE	
<p>(a) To protect and preserve any sites that may be identified on the mine site or transport route.</p>	<p>(i) Any identified sites are managed in accordance with the local Council and NSW and Commonwealth government agencies.</p>

5.3 Flora and Fauna

A total of nine separate vegetation communities were identified within the mine site and transport route by Geoff Cunningham Natural Resource Consultants Pty Ltd (GCNRC). A remnant of the White Box Yellow Box Blakeley's Red Gum Woodland endangered ecological community occurs on the north-western boundary of the mine site (Community 8).

There is also a remnant of the Native Vegetation on Cracking Clay Soils of the Liverpool Plains endangered ecological community. This occurs at the Oxley Highway end of the Coochoonah Lane re-alignment. This area is to be rehabilitated and enhanced once mining has ceased.

Much of the area to be disturbed by mining activities has been cleared in the past, and most of this cleared area has been cultivated, and the vegetation on these areas is relatively heavily invaded by introduced plants. Post-mining rehabilitation provides NMPL with the opportunity to enhance the existing, and provide for new Koala habitat areas and movement corridors. NMPL will enrich existing native vegetation corridors (9.8ha) on the western and northern site boundary, and also create 9.0ha of new native vegetation to create additional Koala Corridors using Koala feed trees in the south-western area of the site, and on the eastern boundary.

The final land use for the "Sunnyside" property will be returned to agricultural use for grazing and cropping rotations, except for those areas designated for native vegetation.

Completion of the 7-Part Test of significance indicates that there would be no significant impact on any threatened flora species, endangered flora populations, endangered ecological communities or Critical Habitat resulting from the development of the Sunnyside Coal Mine.

Fauna surveys undertaken by Kevin Mills and Associates (KMA) identified four main habitat types being (i) cleared pasture, (ii) hills woodland, (iii) plains woodland, and (iv) rocky outcrops. The mine footprint is contained almost entirely within the cleared pasture, with a low habitat value as food resources and shelter are scant for most native species.

Of the 6 native mammals, 50 native birds, 10 reptiles, and 1 frog species recorded in the faunal surveys, three of the species are listed as threatened under the *Threatened Species Conservation Act 1995* and are as follows;

- Koala, *Phascolarctos cinereus*
- Speckled Warbler, *Chthonicola sagittata*
- Grey-crowned Babbler, *Pomatostomus temporalis*

Considering proposed mitigation measures, a Koala Management Plan and native vegetation retention, establishment and enrichment, it was concluded by KMA that the mine and transport route is not likely to have a significant effect on threatened faunal species, and other fauna species populations or communities.

Table 5.2 presents the objectives of flora and fauna management along with the key performance outcomes.

Table 5.2
Objectives and Key Performance Outcomes – Flora and Fauna

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To minimise potential impacts on threatened flora and fauna.</p> <p>(b) To minimise clearing of native vegetation.</p> <p>(c) To maximise re-establishment/ regeneration of native revegetation and utilisation of this by native fauna.</p> <p>(d) To develop protocols for removal / relocation of Threatened fauna identified in areas to be disturbed, prior to clearing.</p> <p>(e) To control noxious weeds and feral animals</p> <p>(f) To develop and implement a Landscape Management Plan which includes a Rehabilitation and Offset Management Plan, identifying how the project will minimise impacts on flora and fauna.</p> <p>(g) To develop and implement a Koala Management Plan, to maintain Koala feed trees, improving Koala habitat, and mitigating the potential for Koala roadkills.</p>	<p>(i) Flora and Fauna management in accordance with commitments contained within the Environmental Assessment for the project.</p> <p>(ii) Preparation of a Landscape Management Plan to the satisfaction of the Director-General of the Department of Planning.</p> <p>(iii) Successful implementation of a Landscape Management Plan.</p> <p>(iv) Implementation of the Koala Management Plan as specified in the Environmental Assessment for the project</p> <p>(v) Ongoing documentation to reflect maintenance and enhancement of existing koala communities.</p> <p>(vi) Completion of pre-clearing inspections with results documented and all identified Threatened fauna relocated.</p> <p>(vii) Re-site all hollow-bearing trees removed where practicable or provide replacement hollows in the form of an equivalent number of nest boxes on suitable trees to be retained</p> <p>(viii) Cleared trees (excluding those found to be hollow-bearing) broken into small sections and used as mulch.</p> <p>(ix) Native vegetation re-establishment / extension using locally collected seed.</p> <p>(x) Areas of native vegetation not required for mining activities are avoided and included within the Managed Koala Habitat areas</p> <p>(xi) Rehabilitation refinement on the basis of monitoring outcomes, site experience and improved technologies.</p> <p>(xii) Efforts and progress in Flora and Fauna Management reported in AEMR.</p>

5.4 Soil Resources and Land Capability

Following the sampling of selected test pits over the mine site and transport route, conducted by GCNRC, three Soil Mapping Units (SMUs) were identified and are described as follows;

- SMU 1 – occurs on upper slopes areas below the rocky scarp in the southern section of the proposed area to be mined
- SMU 2 – occurs on the mid and lower slopes over the remainder or northern section of the Sunnyside Coal Mine site
- SMU 3 – is associated with a small occurrence of endangered ecological community – Native Vegetation on Cracking Clay Soils of the Liverpool Plains – located on the eastern end of the proposed coal transport route on the “Plain View” property

Land capability for the mine site and transport route was identified mainly as Class II (lower slopes) and Class III (mid-slopes), with an area of Class IV land associated with the scarp adjacent to the southern boundary of the Sunnyside Coal Mine

Table 5.3 presents the objectives and the key performance outcomes for soil resources and land capability.

**Table 5.3
Objectives and Key Performance Outcomes – Soil Resources and Land Capability**

OBJECTIVES	KEY PERFORMANCE OUTCOMES
SOIL RESOURCES	
<p>(a) To undertake soil stripping in accordance with Environmental Assessment recommendations.</p> <p>(b) To maximise recovery of soil for use in site rehabilitation activities.</p> <p>(c) To minimise soil stripping in advance of mining and maximise direct replacement of soils on the post mining landform, i.e. in preference to stockpiling, consistent with post mining vegetation and land use planning.</p> <p>(d) To ensure topsoil and subsoil stockpiles are managed to maximise retention of quality, including:</p> <ul style="list-style-type: none"> - implementing weed control; - minimising erosion by locating stockpiles away from watercourses; and - vegetation of long-term stockpiles. <p>(e) To document the progressive development, management and use of stockpiles, including reconciliation of quantities stockpiled, quantities available and future requirements.</p> <p>(f) To minimise erosion and sedimentation from soil stockpiles and/or areas stripped of soil.</p> <p>(g) To prepare an Erosion and Sediment Control Plan.</p>	<p>(i) Soil stripping is programmed to minimise exposed areas.</p> <p>(ii) All topsoil and subsoil materials suitable for use in rehabilitation activities are removed from development areas and stored or used appropriately.</p> <p>(iii) Soil stripping, stockpiling, and replacement volumes and depths are recorded and presented in AEMR.</p> <p>(iv) Reconciled soil quantities are maintained and are available for rehabilitation planning.</p> <p>(v) Adequate soil remains stockpiled at the cessation of mining to complete all required rehabilitation works.</p> <p>(vi) Soil is not eroded in its natural, stockpiled or replaced state.</p> <p>(vii) A successfully rehabilitated and long-term stable landform is established.</p> <p>(viii) Surface water diverted away from soil stockpile areas.</p> <p>(ix) Silt-stop fencing or similar placed immediately down-slope of stockpiles where required.</p>
LAND CAPABILITY	
<p>(a) To maximise the area of land re-established to Class II & III lands, while also establishing areas of koala habitat to enhance areas of remnant vegetation.</p> <p>(b) Elsewhere, landform establishment, soil application and vegetation establishment consistent with Class VI or Class VII land capabilities</p>	<p>(i) Stripping and stockpiling of soils in accordance with soil stripping recommendations.</p> <p>(ii) The final landform on the mine site achieve land capability classification defined in the Landscape Management Plan.</p> <p>(iii) Progressive development of and application of soils to the final landform in accordance with reconciled volumes and post-mining land capability classifications.</p> <p>(iv) Progress reported in each AEMR.</p>

5.5 Erosion and Sediment Control

The soils within the mine site and transport route are currently generally stable except for some areas of sheet erosion on the slopes and some gully erosion in the main drainage lines and tracks. It is notable, however, that the land that has been cleared for agricultural activities is susceptible to, and has been subject to, previous soil erosion.

As part of NMPL's commitment to minimise erosion, a number of diversion banks, waterway systems and sediment control structures will be constructed on the mine site to mitigate this. Further soil management procedures for the site will include the following.

- All soils to be handled as little as possible.
- Soils will not be stripped or replaced when wet.
- Driving of vehicles or machinery on stockpiles will be avoided at all times.
- Topsoil stockpiles will not exceed 2m in height, and subsoil stockpiles will not exceed 3m in height.
- Upslope water diversion banks and the perimeter amenity bund will direct overland surface water flow away from the soil stockpiles.
- Downslope sedimentation controls will be implemented as required until the surface of soil stockpiles is appropriately stabilised using groundcover species.
- Formed soil stockpiles will have a roughened surface to assist in runoff control and seed retention and germination.
- Soil stockpiles will be sown with stabilising groundcover species as soon as possible after placement.
- Stabilisation measures will be taken to minimise loss of soil material from stockpiles prior to the establishment of ground-cover. Such measures would include silt fences or straw bales.

Erosion and sediment control management of the mine site and transport route will build upon the success of past proven land, erosion and sediment control management practices and be documented in an Erosion and Sediment Control Plan which will form part of the Site Water Management Plan.

It will be NMPL's desire to utilise local Department of Lands (Soil Services) personnel and experience in the design, construction and maintenance of required works where practicable.

Table 5.4 presents the objectives and key performance outcomes for erosion and sediment control.

Table 5.4
Objectives and Key Performance Outcomes – Erosion and Sediment Control

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To minimise soil erosion and discharge of sediment and other pollutants onto undisturbed land, and/or to watercourses and water bodies.</p> <p>(b) To effectively manage the topsoil for subsequent use in rehabilitation activities and to minimise the loss of topsoil from areas disturbed by mining and mining-related activities.</p> <p>(c) To install appropriate water management controls to assist the achievement of the above.</p>	Development and Operational Phases
	<p>(i) Disturbance at any one time is restricted to areas shown in the current Mining Operations Plan (MOP).</p> <p>(ii) Erosion and Sediment Control Plan implementation with documented refinements on the basis of operational experience.</p> <p>(iii) The Erosion and Sediment Control Plan is consistent with the document entitled “Managing Urban Stormwater: Soils and Construction” manual (Landcom, 2004).</p> <p>(iv) The water quality of any water discharged from the mine site is within acceptable limits (as identified in the Site Water Management Plan).</p> <p>(v) There is no increase in erosion / siltation of downstream watercourses.</p> <p>(vi) There is no active erosion observable on rehabilitated areas or other areas within the project site.</p> <p>(vii) Maintenance and/or establishment of vegetative cover on natural or disturbed areas are maximised.</p> <p>(viii) Achievements and progress reported in each AEMR.</p>
	Decommissioning
<p>(i) Erosion control systems remain in place.</p> <p>(ii) The water quality measured in watercourses and water bodies remains within acceptable limits.</p> <p>(iii) Previously disturbed areas remain stable with an effective vegetation cover.</p>	

5.6 Surface and Groundwater

5.6.1 Surface Water

The local drainage network in the vicinity of the mine site consists of a tributary of Coocooboonah Creek. This Coocooboonah Creek Tributary 1 has a number of minor diversions associated with soil conservation structures, however the general flow is towards the northwest corner of the “Sunnyside” property. All the Mine’s disturbance activities will occur within this tributary.

Water from Coocooboonah Creek Tributary 2 does not enter the Mine site. It has been directed by soil conservation structures to join Tributary 1 immediately outside the north-western boundary of the site. Catchments around the Mine site are presented in **Figure 4**.

Once in Coocooboonah Creek, water flows northwest, draining into Rock Well Creek, then into Native Cat Creek, then Collygra Creek, flowing into the Namoi River, 25km north of the Mine site.

Site surface water management will be designed to separate “clean” and “dirty” flows and, as far as practical, avoid the necessity to discharge water from the mine site. An important objective of the site surface water management will be the avoidance of “contaminated” flows.

Whilst it is the intention of NMPL to capture all dirty and contaminated water flowing on the mine site for use in dust suppression activities, discharge of water from the site may occur during or following periods of high rainfall. In the event a discharge occurs, discharged water would be sampled within 24 hours of the discharge event and assessed against the criteria defined in the Mine’s EPL. Contingency measures in the event of an exceedance are described in the Site Water Management Plan.

5.6.2 Groundwater

Based on the known stratigraphic sequence and measured standing water levels of the mine site, GeoTerra Pty Ltd, whom conducted the groundwater assessment, has determined that groundwater is contained in the following strata below the mine site;

- Coocooboonah and Native Cat Creek Alluvium – these alluvium do not provide a suitable groundwater supply due to low yield, high salinity, and the sediment’s limited depth and extent.
- Rock Well Creek Alluvium – this is not a significant source of groundwater supply to existing users with all private bores obtaining water from the underlying fractured bedrock.
- Hoskissons Seam Overburden – groundwater in the pit boundary is limited to a very low yielding, thin perched aquifer in the Wandobah Seam. As a result of investigations to date this overburden is essentially dry.
- Hoskissons Seam – data indicates the Seam has a limited yield (0.38L/sec), however this seam does not supply groundwater except for one bore in the north west
- Shallow Marine Facies and Lower Delta Plain Facies – These underlie the Hoskissons seam and are hydraulically separated. Data indicated these can provide low yields of up to 0.63L/sec.

A Hydrogeological model for the mine site was developed by GeoTerra as part of the initial environmental assessment for the Mine. The model identified groundwater flows within the strata as flowing from south-west in the hills to the Quaternary alluvium of Coocooboonah Creek in the north-east, and then to the north-northwest along the valley floor of Coocooboonah Creek. In the Hoskissons Seam groundwater flow is in a south easterly direction within the pit area.

Drawdown in the regional water table predicted by the groundwater model at the completion of the Mine is expected to not exceed 1m in bedrock formations outside of the limit of open cut mining. No observable drawdown is predicted in the overlying Quaternary alluvium of Coocooboonah Creek, Rock Well Creek, Native Cat Creek, Collygra Creek or the Namoi River. In considering those properties that are project related, it is considered that the only non-project related bores that may be affected by the mining operation are located on the "Lilydale" property, of which is predicted to be less than 1m. Monitoring of groundwater resources will be undertaken to verify the predictions in the model and actions initiated in accordance with the prescription in the Site Water Management Plan. Contracts for the purchase of the "Lilydale" property have been exchanged and it is expected that this property will also be project related by the time mining activity commences.

Table 5.5 presents the objectives and key performance outcomes for surface and groundwater.

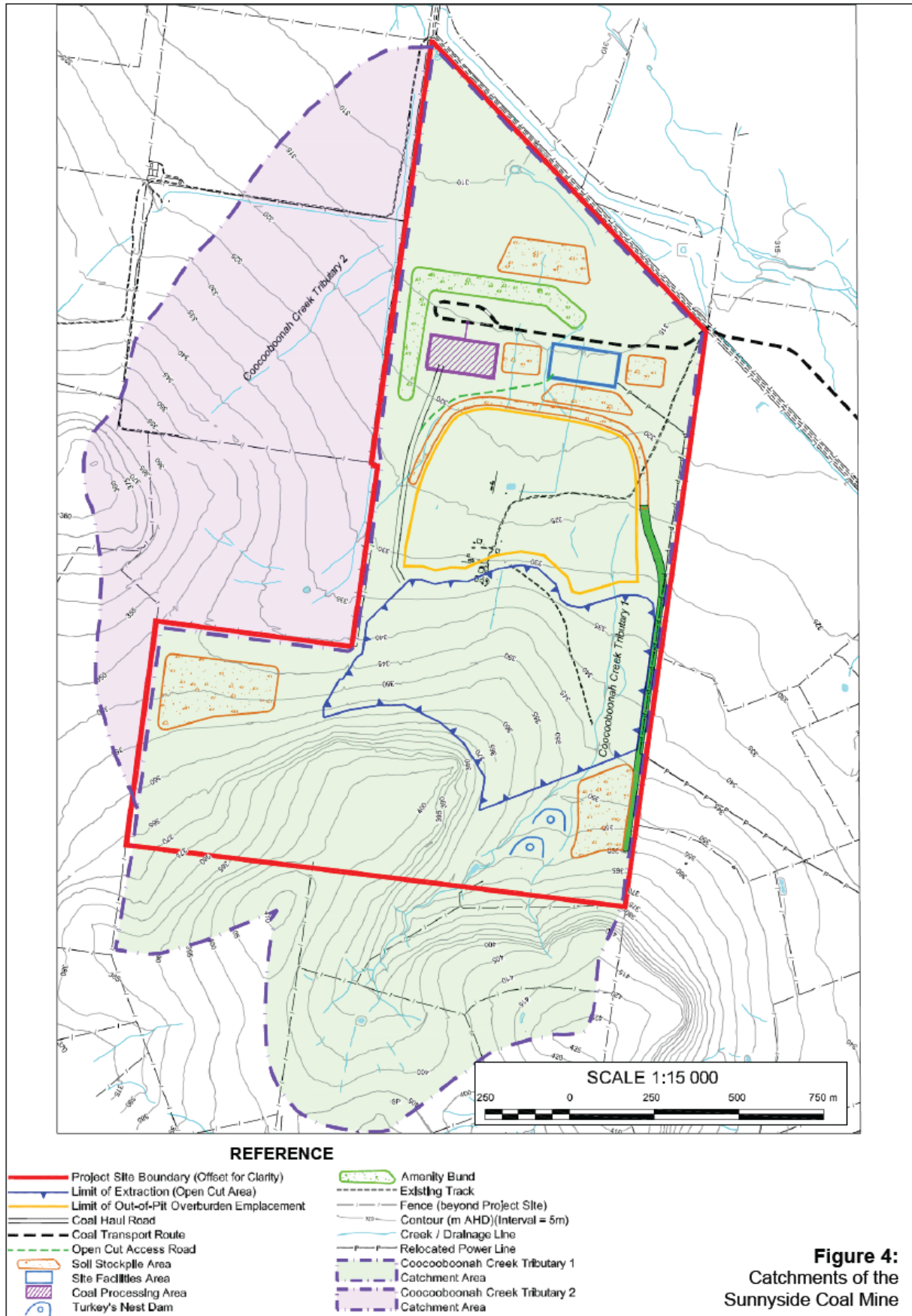


Figure 4:
Catchments of the
Sunnyside Coal Mine

Table 5.5
Objectives and Key Performance Outcomes – Surface and Groundwater

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To protect the quality of surface and groundwater resources.</p> <p>(b) 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>(c) To ensure that appropriate water control systems are established prior to mining-related disturbance and extended with the progression of the mine.</p> <p>(d) To effectively separate “clean” and “dirty” flows.</p> <p>(e) To effectively separate “Pit” water from other water sources by provision of specific pit water dams.</p> <p>(f) To minimise the generation of “dirty” and potentially “contaminated” water and to maintain effective measures for their control and isolation respectively.</p> <p>(g) To ensure that “dirty” and “pit” water is re-used where practicable for dust suppression purposes.</p> <p>(h) To limit “clean” water collection to NMPL’s harvestable right.</p> <p>(i) To ensure any “contaminated” water is managed to minimise the volume of water affected, contain its movement and minimise the risk of downstream or off-site contamination.</p> <p>(j) To ensure that any discharges of water comply with all relevant legislation and licences.</p> <p>(k) To regularly assess, amend and document the effectiveness of the site’s water management controls.</p> <p>(l) To prepare a strategy for the decommissioning of water management structures.</p> <p>(m) To prepare, implement and review as necessary a Site Water Management Plan, including a site water balance, surface and groundwater monitoring programs, and an Erosion and Sediment Control Plan.</p> <p>(n) Review and further refine the groundwater model as presented in the Environmental Assessment as additional monitoring data becomes available.</p>	<p>(i) All activities are undertaken in accordance with the approved Site Water Management Plan, including the following.</p> <ul style="list-style-type: none"> – Appropriate water control systems are in place. – Effective surface water monitoring programs are in place, which enable water quality assessments in water storages, local surface water flows, and discharges. – The quality of water within Coochooboonah Creek and its Tributaries are not adversely impacted and remains within the water quality criteria and satisfies the objectives noted in the SWMP. – “Clean”, “dirty”, “contaminated” and “pit” 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. – Monitoring programs are in place to establish natural fluctuations and any mine-induced changes in groundwater level and quality to be assessed. – Surface and groundwater monitoring results and observable trends are assessed annually and reported in the AEMR. – Surface and Groundwater response plan is in place or established if / when negative groundwater level and chemical fluctuations exceed natural variability. – The site water balance is reviewed annually to assess actual as opposed to predicted system inflows and outflows and reported in the AEMR. – Effective water controls remain in place on cessation of mining and neither groundwater nor surface water quality is reduced. – Ground and surface water monitoring results continue to comply with relevant criteria post mining. – The groundwater model presented in the EA is effectively updated on a regular basis in accordance with observable trends from monitoring. <p>(ii) All monitoring results, general observations and changes to water management are reported in each AEMR.</p>

5.7 Air Quality

The existing air quality of the mine site is consistent with other rural areas where the principal contributors are dust from agricultural activities and/or exposures, seed, pollen and smoke from domestic activity and exhaust fumes from local roads.

Mining operations will inevitably increase the extent of dust generation and, by virtue of the use of diesel fuel in mining and processing equipment and in rail transportation of coal, also result in increased emissions of NO₂, SO₂ and greenhouse gases.

Whilst modelling of air quality impacts predicts only minor increases in the extent of dust generation by the mine, and well within DECC criteria, appropriate controls will still be implemented to ensure satisfaction of both incremental and total criteria for deposited dust and PM₁₀ particulates, and that exhaust gas emissions are minimised. The Air Quality Monitoring Program for the mine identifies the strategies and monitoring to be adopted to maintain compliance with air quality criteria.

Table 5.6 presents the objectives and key performance outcomes for air quality.

Table 5.6
Objectives and Key Performance Outcomes – Air Quality

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To comply with statutory requirements.</p> <p>(b) To minimise air quality impacts on local residents and land users.</p> <p>(c) Visible air pollution, odour and fume emissions are minimised.</p> <p>(d) To ensure the results of all air quality monitoring are within the following limits.</p> <ul style="list-style-type: none"> – Mean annual TSP $\leq 90 \mu\text{g}/\text{m}^3$. – 24 hour maximum PM10 $\leq 50 \mu\text{g}/\text{m}^3$. – Annual average PM10 $\leq 30 \mu\text{g}/\text{m}^3$. – Mean annual increase in dust deposition $\leq 2.0 \text{ g}/\text{m}^2/\text{month}$. – Mean maximum dust deposition $\leq 4.0 \text{ g}/\text{m}^2/\text{month}$. <p>(e) To minimise dust impacts on motorists on local roads.</p> <p>(f) To keep the local residents and community informed and respond quickly to any issues or complaints raised.</p> <p>(g) To establish an effective meteorological monitoring system.</p> <p>(h) Greenhouse gas emissions are minimised consistent with operational practicalities.</p>	<p>(i) Air quality management in accordance with commitments contained within the Environmental Assessment for the mine.</p> <p>(ii) A network of environmental monitoring stations is in place and utilised to manage and/or assess operational performance.</p> <p>(iii) Activities that generate dust are managed such that licence and approval limits are met.</p> <p>(iv) Sufficient water is available for suppression of dust during construction and operational stages.</p> <p>(v) Disturbance of land is minimised consistent with the progress of the development.</p> <p>(vi) Measures such as water application and progressive rehabilitation are in place to reduce the potential for wind erosion.</p> <p>(vii) Monitoring is consistent with the mine's Air Quality Monitoring Program and undertaken in accordance with the relevant Australian Standards.</p> <p>(viii) Greenhouse gas emission reduction investigations, outcomes and abatement measures as well as energy savings are identified in an Energy Savings Action Plan and reported in AEMR.</p> <p>(ix) Monitoring data provided to landowners / residents where air quality criteria are not satisfied.</p> <p>(x) Results and analyses of all air quality monitoring are included in each AEMR.</p> <p>(xi) Procedures are in place for the management of Blasting Activities.</p> <p>(xii) Issues arising are managed in accordance with the Air Quality Monitoring Protocol.</p>

5.8 Noise

The existing sources of noise in the vicinity of the mine are typical of a rural environment and include:

- farm equipment such as tractors and cultivators;
- insect noise such as cicadas, especially during spring and summer months;
- livestock and other farm and native animals;
- wind through vegetation, and;
- through traffic on the local road network.

The adopted noise criteria for the Sunnyside Coal Mine are as follows.

Table 5.7
Noise Impact Assessment Criteria

	Location	Day L_{A10(15 minute)}	Evening L_{A10(15 minute)}
Construction Noise	Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")	40	40
Operational Noise	Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")	35	35
	Location	Day L_{Aeq(1 hour)}	Evening L_{Aeq(1 hour)}
Road Traffic Noise	Any residence adjacent to Torrens Road	55	55

Note: Limits as per Conditions 3(2), 3(3) and 3(6) of PA 06_0308

A range of controls (as identified in the Noise Monitoring Program) will be implemented to maintain construction, operational and road traffic noise levels within the criteria adopted, with monitoring to be undertaken to verify compliance with the above DECC criteria.

Table 5.8 presents the objectives and key performance outcomes for noise.

Table 5.8
Objectives and Key Performance Outcomes – Noise

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To manage all stages of the mine to minimise noise and ensure emissions satisfy the nominated criteria under all nominated conditions.</p> <p>(b) To prepare a Noise Monitoring Program, including a Noise Monitoring Protocol, and a Road Noise Management Plan.</p> <p>(c) To keep the local community and regulators informed and to respond quickly and effectively to issues and complaints in accordance with the Noise Monitoring Protocol and Road Noise Management Plan.</p> <p>(d) To monitor construction and operational noise in accordance with the Noise Monitoring Program and traffic noise with the Road Noise Management Plan to ensure regulatory compliance.</p>	<p>(i) Noise management in accordance with Environmental Assessment recommendations.</p> <p>(ii) All earthmoving/mining equipment to comply with the sound power levels used in the Environmental Assessment.</p> <p>(iii) Monitoring undertaken in accordance with the Noise Monitoring Program and Road Noise Management Plan.</p> <p>(iv) Noise emissions are compliant with EPL and <i>Conditions 3(2), 3(3) and 3(6)</i> of PA 06_0308.</p> <p>(v) Noise emissions are verified by monitoring to comply with criteria.</p> <p>(vi) The receipt of valid noise-related complaints is eliminated or minimised.</p> <p>(vii) Monitoring results are included in the AEMR.</p> <p>(viii) Any issues arising are managed in accordance with the complaints management section of the Noise Monitoring Protocol and Road Noise Management Plan.</p> <p>(ix) DECC and DG (DoP) acceptance of Noise Monitoring Program and Road Noise Management Plan</p> <p>(x) Activities are undertaken in compliance with meteorological limitations in order to minimise intrusive noise.</p> <p>(xi) All roads comprising the transport route are sealed and regularly maintained under a contribution plan with GSC</p> <p>(xii) Strict adherence to hours of operations, including transport activities.</p> <p>(xiii) Restricted use of engine brakes.</p> <p>(xiv) Open dialogue with neighbours and the local community to ensure community satisfaction.</p> <p>(xv) Continuous improvement program to investigate ways to minimise noise from the mine and report on these initiatives in the AEMR.</p>

5.9 Blasting

All blasts at the mine will be designed to satisfy environmental and safety criteria with respect to airblast overpressure and ground vibration, initially using conservative predictive models and subsequently using site laws developed and refined on the basis of operational experience.

Monitoring of all blasts will be undertaken in accordance with the Blasting Monitoring Program and commitments made by WCMPL in the *Environmental Assessment*.

Table 5.9 presents the objectives and key performance outcomes for blasting.

Table 5.9
Objectives and Key Performance Outcomes – Blasting

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To manage blasting operations so as to:</p> <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. - pose no risk to public safety or livestock. <p>(b) To keep the community informed of the planned dates and times of impending blasts.</p> <p>(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.</p> <p>(d) To minimise disruption to the public.</p> <p>(e) All blasts are monitored at locations agreed with DECC.</p> <p>(f) To provide the opportunity for property inspections prior to the commencement of blasting and on receipt of complaint over structural damage claimed to be caused by the mine blasting operations.</p>	<p>(i) At least 2 months prior to carrying out any blasting at the development, all potentially affected landowners will be informed of their entitlement to a property inspection.</p> <p>(ii) Blasting hotline (or alternative approved method) in place, updated as necessary and functional.</p> <p>(iii) If any landowner within 2 kilometres of blasting operations at the development, or otherwise nominated by the DG (DoP), claims damage to property as a result of blasting at the development, NCPL will within 2 months of receiving this request:</p> <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. <p>(iv) An effective pre-blasting notification program in place for local landowners / residents.</p> <p>(v) Complaints resulting from blasts are minimal or non-existent.</p> <p>(vi) Procedures in place to respond to and assess any claims with respect to blasting induced damages.</p> <p>(vii) Any complaints regarding blasting-induced damage are assessed in a timely manner.</p> <p>(viii) All blasts are monitored in accordance with an approved Blasting Monitoring Program, with any blast exceedance reported to DoP and DECC.</p> <p>(ix) Blast monitoring results are presented in each AEMR.</p> <p>(x) Details of all blasts are recorded and none occur outside the approved hours of 10:00am to 5:00pm Monday to Friday and 10:0am to 2:00pm on Saturdays, or more than twice on any given day (unless approved by DECC).</p>

5.10 Waste

The mine will generate both production wastes, i.e. mined rock, potentially contaminated water from the maintenance workshop, wash-down pad and fuel storage areas, and non-production wastes such as domestic-type wastes, routine maintenance consumables, fencing materials, oils and grease, and sewage.

The mined rock will be utilised in the construction of the perimeter amenity bund and to surface the ROM and product stockpile pads to create an all-weather working surface. Potentially contaminated water from the workshop will be collected in the oil/water separator and regularly removed from site by a licensed contractor. Non production wastes will be removed from site by licensed contractors and disposed of in an appropriate manner. This will include placement of bins at the various buildings for daily collection and placement in larger waste storage receptacles adjacent to the workshop area for collection as required. Separate collection systems will be employed for recyclable materials such as paper and cardboard, cans, and ferrous and non-ferrous metals each of which would be collected at appropriate intervals.

Adequate toilet and ablution facilities will be installed on the mine site and would incorporate one or more self irrigating eco-cycle septic sewage systems approved by Gunnedah Shire Council. Treated septic system water will be irrigated on landscaped areas in accordance with licence conditions imposed by the DECC.

The Waste Management Plan for the mine, as required under *Condition 3(43)* of the approval, details the actions proposed for re-using, recycling and minimising waste generated across the mine site.

Table 5.10 presents the objectives and key performance outcomes for non-production waste management.

Table 5.10
Objectives and Key Performance Outcomes – Non-production Waste Management

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To minimise waste production.</p> <p>(b) To identify waste types and quantities on site.</p> <p>(c) To identify potential re-use or recycling opportunities and ensure appropriate handling and collection procedures are in place.</p> <p>(d) To investigate methods to minimise waste generated by the mine and implement reasonable and feasible measures to minimise waste.</p> <p>(e) To ensure the disposal of wastes conforms to applicable guidelines or licences.</p> <p>(f) To ensure areas where fuels, oils or other potential contaminants are stored are appropriately bunded.</p> <p>(g) To ensure sewage disposal does not degrade the waste water utilisation area.</p>	<p>(i) A program to encourage waste minimisation is in place.</p> <p>(ii) The types and quantities of wastes produced on site are identified and recorded.</p> <p>(iii) A waste tracking system is in place.</p> <p>(iv) Recyclable wastes are segregated.</p> <p>(v) Waste materials / recyclables are retained in designated storage areas prior to removal from site.</p> <p>(vi) The site is kept in a clean and tidy condition.</p> <p>(vii) Wastes are stored in a manner and for periods such that vermin infiltration, odour etc are not issues.</p> <p>(viii) Storage areas are designed and maintained to contain spillages.</p> <p>(ix) Wastes are disposed of to the satisfaction of DECC and Gunnedah Shire Council (as appropriate).</p> <p>(x) Waste water utilisation area is not degraded (as verified by monitoring).</p> <p>(xi) Sprays from waste water application do not drift beyond the boundary of the waste water utilisation area (as verified by monitoring).</p> <p>(xii) Surface runoff from the waste water utilisation area is collected by the site water management system.</p> <p>(xiii) Waste management and minimisation is done in accordance to the approved Waste Management Plan and is reported in the AEMR.</p>

5.11 Visibility

The existing topography of the local area, together with patches of trees tends to provide screening of close views of the mine site. Clear views of the mine site can be had from distances ranging from 500m to 5km. Beyond that distance, the views of the site tend to be obscured by topography or distance effects.

Various visual control measures will be implemented to minimise visual impacts of the mine, and will include the following.

- Progressive rehabilitation to minimise any cleared or non-vegetated areas
- Planting of native species at strategic locations around the active mine site to reduce visual impact
- The overburden emplacement has been designed to replicate existing topographic features as much as possible
- An amenity bunds would be constructed around the coal processing area and eastern boundary to provide visual and acoustic screening.
- Minimise land disturbance/clearing in advance of mining
- Implementation of air quality controls
- Maintaining the mine and other areas of disturbance in a clean and tidy condition at all times
- Direct any lighting used, downwards and away from roads and non-project related residences

Table 5.11 presents the objectives and key performance outcomes for visibility.

**Table 5.11
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 minimise disturbance in advance of mining consistent with operational requirements.</p> <p>(c) To maintain the site in a clean and tidy condition.</p> <p>(d) To minimise dust generation and deposition.</p> <p>(e) To use screens / bunds to minimise the visibility of equipment and impact of lights on mobile equipment.</p> <p>(f) To position temporary and permanent lighting installations to avoid spillage of light directly towards residences or roads.</p> <p>(g) All practical measures to mitigate off-site lighting impacts from the mine site are taken, especially in relation to the Siding Springs Dark Skies Region.</p> <p>(h) To ensure that all external lighting associated with the mine complies with Australian Standard AS4282 1997 – Control of Obtrusive Effects of Outdoor Lighting, i.e. wherever possible, all mine lighting is directed downward.</p> <p>(i) Progressive shaping and revegetation of the post mining landform, including partial rehabilitation of temporarily inactive areas and proposed topsoil storage stockpiles.</p> <p>(j) To create a post-mining landform which appears as an extension of the existing landform.</p> <p>(k) To investigate methods of reducing the impact of the development on residences within 2km of the mine (on request).</p>	<p>(i) Visual screens are established in advance of mining activities.</p> <p>(ii) Overburden emplacement areas and other areas of disturbance are progressively shaped and revegetated in accordance with the MOP.</p> <p>(iii) The mine site is organised, clean and tidy at all times.</p> <p>(iv) The air quality objectives of Section 5.7 are achieved</p> <p>(v) Equipment / facility lighting obscured or directed away from residences / roadways.</p> <p>(vi) Procedures are in place to record and respond to any complaints relating to lighting and/or visual amenity.</p> <p>(vii) General performance is reported in AEMR.</p> <p>(viii) Within 2 months of receiving a written request to investigate methods of reducing the visual impact (when the mine site activities are viewed from residences within 2km), the following steps are taken.</p> <ul style="list-style-type: none"> – Consultation undertaken with the landowner to identify mutually acceptable mitigation measures. – In the event an agreement cannot be reached on suitable mitigation measures, a suitably qualified person whose appointment has been approved by the DG (DoP), has been commissioned to investigate ways to minimise the visual impacts from the development on the landowner’s dwelling. – The landowner has been provided with a copy of the visual impact mitigation report.

5.12 Transport

Coal will be transported from the mine site to the Whitehaven CHPP for washing and/or despatch to export markets via rail to the Port of Newcastle. The transportation of coal from the mine site will be integrated with the overall delivery of coal from Whitehaven Coal Limited mines supplying coal to the Whitehaven CHPP and coal loading facility.

Table 5.12 presents the objectives and key performance outcomes for product and reject transportation.

Table 5.12
Objectives and Key Performance Outcomes – Product Coal Transportation

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>(a) To comply with statutory criteria with respect to noise and air quality.</p> <p>(b) To comply with the project approval and environment protection licence.</p> <p>(c) To keep the local community informed and to respond quickly and effectively to issues and complaints.</p> <p>(d) Deliveries undertaken in accordance with RTA and Council restrictions</p> <p>(e) To implement safeguards to minimise impacts on all road users</p> <p>(f) To operate the transport of coal to the Whitehaven CHPP in a manner that:</p> <ul style="list-style-type: none"> – Ensures the safety of other road users, local landholders and their livestock; – Complies with the criteria adopted for noise and air quality; – Minimises impacts on residences or properties adjacent to the transport route; – Minimises impact on native fauna, specifically koala's, and; – Minimises the disruption to natural surface water flows <p>(g) To maintain a covered load policy for all trucks carting material to and from the mine.</p>	<p>(i) Compliance with air and noise criteria verified by monitoring.</p> <p>(ii) Landowners/residents contacted prior to any upgrading works</p> <p>(iii) Routine liaison with local residents to ensure their satisfaction with all aspects of the transportation of coal and mine related materials.</p> <p>(iv) Restrict coal despatch hours to 7:00am to 6:00pm Monday to Friday and 7:00am to 4:00pm Saturdays and no time on Sundays and public holidays</p> <p>(v) Communication maintained between truck drivers and local school bus drivers</p> <p>(vi) Applying a covered load policy to all transport trucks</p> <p>(vii) Ensuring all transport trucks are well maintained, roadworthy and drivers act in courteous manner.</p> <p>(viii) Stop signs and traffic signals along the transport route are strictly adhered to. This will include Koala signage to identify Koala activity in the area to reduce potential for road kills</p> <p>(ix) Maintenance of a koala road kill record which demonstrates minimum impact on the Koala population from road transport activity.</p> <p>(x) Contribute to the maintenance of all public roads affected by the proposal in accordance with an agreement with GSC.</p> <p>(xi) Installation of a fence the length of the transport route (on private lands) prior to commencement of transport from the mine</p> <p>(xii) Performance reported in AEMR.</p>

5.13 Rehabilitation

NMPL is committed to ensuring progressive rehabilitation of areas of disturbance (and sequencing activities to enable earliest revegetation consistent with operational requirements) within the Mine Site in order to minimise the areas of exposure and hence potential air quality impacts, reduce the potential for erosion and sedimentation, and reduce the visibility of mining operations from local residences or publicly available vantage points.

Rehabilitation of disturbed areas will involve the reprofiling of the landform, soil application consistent with the volume of materials available and the desired post-mining land capability and land use, installation of appropriate drainage controls and establishment of areas of native vegetation and pasture.

Revegetation will be a major part of rehabilitation as it will provide NMPL the opportunity to enhance existing Koala habitat areas and movement corridors, and also establish new areas of native vegetation.

In the long term, on mine completion, the rehabilitation objective will be to provide a low maintenance, stable and safe landform that blends in with the surrounding topography and which maximises the return of agricultural land with agricultural land suitability comparable to the existing levels. The Rehabilitation and Landscape Management Plan for the mine will identify the strategies to be implemented in relation to overall rehabilitation of the site.

Table 5.13 presents the objectives and key performance outcomes for rehabilitation.

Table 5.13
Objectives and Key Performance Outcomes – Rehabilitation

OBJECTIVES	KEY PERFORMANCE OUTCOMES
<p>Short-term</p> <p>(a) To minimise clearing / vegetation disturbance consistent with operational requirements.</p> <p>(b) To schedule operations including overburden/interburden emplacement and shaping and revegetation to minimise visual exposure</p> <p>(c) To rehabilitate areas of disturbance no longer required for mining-related operations in accordance with the approved Rehabilitation Management Plan.</p> <p>(d) To apply soil (topsoil / subsoil) to the final landform based on material availability and post-mining land use.</p> <p>(e) To stabilise all earthworks, drainage lines and disturbed areas in order to minimise erosion and sedimentation.</p> <p>(f) To control vermin, feral animals and noxious weeds.</p>	<p>(i) Clearing / vegetation disturbance and rehabilitation progress consistent with the MOP and Rehabilitation and Landscape Management Plan.</p> <p>(ii) Successful establishment of vegetation on the final landform consistent with the MOP.</p> <p>(iii) Progressive achievement of landform and land use objectives.</p> <p>(iv) Achievement of the objectives with respect to flora and fauna, soil resources and land capability, erosion and sediment control, and air quality.</p> <p>(v) 18.8ha of the final landform to be designated for establishing new, or enhancing existing Koala habitat.</p> <p>(vi) Exclusion of agriculture from, and management of existing native vegetation for Koala habitat.</p> <p>(vii) Rehabilitation performance / success which enables lease relinquishment.</p> <p>(viii) Verification of achievements through monitoring.</p>
<p>Long-term</p> <p>(g) Continuation and/or restoration of biodiversity and ecological integrity of areas affected by mining or agriculture within the mining lease.</p> <p>(h) To establish a low maintenance, geotechnically stable final landform commensurate with agricultural and nature conservation land uses.</p> <p>(i) To blend the created landforms to appear as a natural extension with the surrounding landforms.</p> <p>(j) To provide habitat for fauna and corridors for fauna movement within the final landform.</p> <p>(k) To enhance koala habitat in the area in accordance with the Koala Management Plan.</p> <p>(l) To monitor rehabilitation success in terms of physical and biological parameters.</p>	<p>(ix) Performance reported in AEMR.</p>

5.14 Fire Management

NMPL will ensure that sufficient and appropriate fire fighting equipment and resources are maintained on the mine site. This will be achieved through the active consultation with the Rural Fire Service and development of a Bushfire Management Strategy within the required Rehabilitation Management Plan.

The mine site is located in a rural environment, with most of the land surrounding the site and transport route predominantly cleared for agriculture. This, if anything, is likely to decrease the risk of bushfire for the area. This said, the area to the south of the mine site is a woodland area and the control and spread of fire in this area will be paramount. Any required fire control activities will be undertaken in accordance with the requirements of the Rural Fire Service.

Table 5.14 presents the objectives and key performance outcomes for fire management.

Table 5.14
Objectives and Key Performance Outcomes – Fire Management

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To ensure the mine is suitably equipped to respond to any fires.	(i) Bushfire Management Strategy in place with up-to-date contacts.
(b) To maintain fire protection works on the lease to the satisfaction of Council and the Rural Fire Service.	(ii) Hazard reduction measures undertaken in accordance with the Plan.
(c) To provide fire management training to site personnel.	(iii) Spontaneous Combustion Management Plan in place.
(d) To manage exposed coal seams and stockpiles to prevent spontaneous combustion.	(iv) Any fires initiated are quickly and efficiently extinguished.
(e) To prepare a Bushfire Management Strategy as a component of the Rehabilitation Management Plan and update it as necessary.	(v) Functional fire fighting equipment is available at all times.

5.15 Socio-economic Aspects

The development of the mine will have a significant positive impact on the economic activity and productivity both from a local and regional perspective, achieved through the direct and indirect employment generated, mine expenditure on services and supplies and the mine's support for local community services and projects. Although some negative socio-economic outcomes may also result, e.g. loss of agricultural production capacity (primarily temporary), perceptions with respect to property values and increased traffic, they will be outweighed by the benefits.

Table 5.15 presents the objectives and key performance outcomes for socio-economic aspects.

Table 5.15
Objectives and Key Performance Outcomes – Socio-Economic Aspects

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To provide the training required to ensure sufficient numbers of qualified and trained local personnel are available for employment.	(i) The expansion of local skill base and a progressive increase in local employment at the mine
(b) To achieve social and intergenerational equity.	(ii) Increased economic activity for local businesses.
(c) To provide employment for suitably qualified (or trained), experienced and/or trained local district residents including members of the local Aboriginal community.	(iii) Community acceptance of the mine as a valued land user and community member.
(d) To support local service and supply industries.	(iv) Actual or perceived negative socio-economic outcomes and complaints are minimised.
(e) To support local community services and projects.	(v) Strong and successful community consultation / interaction / information program.
(f) To develop and promote a Community Consultative Committee.	(vi) Open door policy enabling community / company interaction.
(g) To provide a net benefit to the Gunnedah community.	(vii) Local induction kit provided to new workers including contact details for community groups and services.
	(viii) Socio-economic performance and the achievements with respect to the above performance indicators are reported in the AEMR.
	(ix) Assistance provided in identifying job opportunities for the partners of potential employees.

5.16 Cumulative Impact Management

The project site location is in a general rural area that has not been subject to major development, apart from the now closed Gunnedah Colliery Underground Workings. As a consequence, current land use pertains predominantly to grazing and agriculture.

Surface disturbance activities at the site will impact on current agricultural use of the project site. However this impact is considered of a minor nature in respect of the adjacent ongoing agricultural activity, and will be of a temporary nature as rehabilitation targets require the return of 124.9ha to class II and III land capability.

NMPL recognises that the ongoing productive capacity of surrounding properties and understands the potential for cumulative impact of agricultural production and mining, particularly as it relates to dust and noise generation. NMPL expects this combined impact to be minimal through its experience of open cut operations at the Canyon and Tarrawonga sites, through associated subsidiary companies of WCL, and also with other nearby coal operations which have since closed. Nevertheless, impacts will be monitored through quarterly noise monitoring events and ongoing deposited dust and particulate matter monitoring, with comparisons of results pre and post mine production. It is generally considered that the ongoing operations of the Sunnyside Coal Mine will not interfere with the normal operations at surrounding properties which is predominantly grazing and cropping and heavily influenced by seasonal conditions.

NMPL has purchased a number of the properties surrounding the project site in an effort to reduce overall impact on adjacent holdings.

With the relevant upgrades to the existing roads along the coal transport route, the cumulative impact of increased traffic on public roads has been considered and to be of a minor nature only. The section of Blackjack Road along the transport route has had a long history with coal transportation extending back to 1901, with a tramway used to transport coal.

In light of the above, NMPL considers cumulative impacts in the vicinity of the mine will be of a minor nature and assessed in accordance with ongoing monitoring requirements.

Table 5.16 presents the objectives and key performance outcomes for cumulative impacts

Table 5.16
Objectives and Key Performance Outcomes – Cumulative Impacts

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) To minimise potential for cumulative impact associated with the mine and adjacent existing industry (b) To minimise impact associated with coal transport on the approved coal transport route	(i) Ongoing monitoring particularly in terms of noise and dust generation to determine mine contribution to dust and noise levels. (ii) Monitoring of product transport levels in consultation with GSC and provision of funding for road maintenance in accordance with road maintenance agreement. (iii) Relocation of a section of Coochooboonah Lane as per project approval requirement. (iv) Transport route maintained in appropriate condition as confirmed in consultation with GSC.

6 INFORMATION DISSEMINATION, COMPLAINTS MANAGEMENT AND DISPUTE RESOLUTION

6.1 Information Dissemination

NMPL is committed to a policy of community membership and a sense of mine ownership by employees and local community members, and will undertake a program of regular liaison / contact with local residents, landowners and the broader community to inform them of mine's progress. Such a program will also provide an opportunity to discuss issues of "concern" which residents are reticent to register as complaints.

All such liaison / contacts / comments will be documented.

Dissemination of information to the local community and relevant agencies regarding the mining operation, its progress and environmental management performance, will be achieved by both formal and informal means including the following;

i) Community Consultative Committee (CCC)

The CCC will include a minimum three representatives of the local community, one representative from Gunnedah Shire Council, and independent chairperson, and a minimum two representatives of the Company, one of which must have direct managerial responsibility for environmental management at the mine. The committee 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 four times per year (or at other frequencies as determined by the Director-General) at which NMPL representatives will provide advice on the status of construction activities, the mine's progress, environmental performance and monitoring results, complaints etc. The CCC meetings will also act as a forum for discussion of each of the above aspects or any other issue brought up by members of the community through the CCC representatives, or directly with NMPL.

The minutes of the CCC meeting will be available at Gunnedah Shire Council or other venue(s) agreed by the CCC within fourteen days of each meeting.

In addition to their tabling at CCC meetings, relevant environmental monitoring results pertaining to individual landholders will be provided on request, and all results will be available for public examination. NMPL will seek advice from each relevant landowner as to their desire to receive monitoring results.

NMPL will provide the opportunity for the CCC and local residents, landholders, schools and community groups to visit the mine, as well as maintaining an open door policy for interested local residents.

Copies of all management plans / strategies or monitoring programs, together with the results of independent audits undertaken in accordance with PA 06_0308 will also be provided to the CCC and the Council, and made publicly available at Councils office as well on the company website.

ii) Annual Environmental Management Report (AEMR)

Each year, NMPL will prepare an AEMR which will:

- (a) identify the standards and performance measures that apply to the project;
- (b) describe the works carried out in the last 12 months;
- (c) describe the works that would be carried out in the next 12 months;
- (d) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years;
- (e) include a summary of the monitoring results for the project during the past year;
- (f) include an analysis of these monitoring results against the relevant:
 - impact assessment criteria/limits;
 - monitoring results from previous years; and
 - predictions in the EA;
- (g) identify any trends in the monitoring results over the life of the project;
- (h) identify any non-compliance during the previous year; and
- (i) describe what actions were, or are being, taken to ensure compliance.

The AEMR will also address the matters identified in the DPI-MR document entitled "Guidelines to the Mining, Rehabilitation and Environmental Management Process".

The AEMR will be provided to Council, relevant agencies and to the CCC members and also made available for public review at Council's office and on the company website.

iii) Other Methods

Visits by relevant government agencies, e.g. DECC, DPI-MR to inspect the mine site and NMPL's performance, will be documented together with the provision of reports or information as requested.

NMPL will maintain regular formal and informal contact with relevant government agencies.

NMPL will provide reports to relevant government agencies in the event of non-compliance or a potential non-compliance with respect to statutory criteria or guidelines.

In addition to the above, NMPL may also utilise the local press to present feature articles on the mine's progress.

6.2 Complaints Receipt and Response Procedures

In order to receive, record and respond to any complaints in a timely manner, NMPL will establish and maintain 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, seven days per week, be publicly advertised and the details supplied to adjacent landowners.

All complaints will be registered in a log or similar database and responded to within 24 hours of the receipt of a complaint except in the event of complaints recorded during weekends or holiday periods when the mine is not operating. A message bank will capture calls made outside operating hours or when the call cannot be answered. The recorded message will record the time of receipt and request the following information.

- complainant's name;
- telephone number;
- preferred time contact;
- nature of complaint.

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

- i) 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;
 - personal details;
 - the nature of the complaint;
 - action taken by NMPL in relation to the complaint including any follow-up contact; and
 - if no action, the reason why. This activity may extend to other landowners / residents to determine the overall extent of the perceived problem.
- ii) As appropriate, the initiation of monitoring or other investigations to verify or otherwise the exceedance or non-compliance with project approval, licence or lease conditions.
- iii) Initiation of appropriate changes in operating practices or procedures.
- iv) Conducting a follow-up interview with the resident to determine their level of satisfaction with the mine's response and the resultant outcome.

A copy of the report sheet will be supplied to the complainant, if requested.

A summary of the complaints received in each 12 month period will be included in each AEMR, together with a comparison with the number and nature of complaints received in the previous years.

6.3 Dispute Resolution

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

- (1) A meeting will be convened with the General Manager and/or Mine Manager and Environmental Officer to seek resolution of the matter. The complainant will be provided with a written response from NMPL detailing the results of investigations to date and the agreed actions to be taken in respect of 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 as to 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 the Department of Planning (and the relevant authority) for investigation and action as appropriate.

7 RESPONSE TO NON-COMPLIANCES

Compliance with all approvals, plans and procedures will be the responsibility of all personnel (staff and contract) employed on or in association with the mine, and will be developed through promotion of mine ownership under the direction of the Mine Manager and Environmental Officer.

The Environmental Officer and/or Mine Manager 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.

Any non compliance with regulations, licences or approvals will be reported to the relevant authority/ies, together with details of the corrective actions taken to avoid future occurrences. Areas of potential non-compliance which have the potential to cause environmental harm or result in complaints will also be reported to the relevant authority as per requirements specified in Conditions 3 and 4 of Schedule 5 of PA 06_0308

Non-compliances with the requirements of the mine's EPL will also be reported in each annual Licence Return.

A review of NMPL's compliance with all conditions of the PA 06_0308 mining lease and all other approvals and licences will be undertaken prior to (and included within) each AEMR submitted to the Director-General and DPI-MR. The AEMR will also be provided to Council, relevant agencies, the Community Consultative Committee (CCC) and for public review. Additionally, an independent environmental audit will be undertaken a minimum of once every three years and the report submitted to the Director-General, Gunnedah Shire Council, all relevant authorities and made available to the public at Council's office. The independent audit will be undertaken by an appropriately certified auditor in accordance with ISO 19011:2002 "Guidelines for Quality and/or Environmental Systems Auditing" and ISO 14011 or equivalent updated versions of these guidelines. A copy of all publicly available documents will be placed on the Whitehaven Coal Limited website.

A set of environmental procedures that deal with the renewal of licences, leases and approvals, and also prescribe the means to ensure compliance with regulatory requirements will also be established to ensure ongoing compliance in the event of personnel changes. The implementation checklist provided in **Appendix 2** of this Strategy will be used in this process.

8 EMERGENCY RESPONSE

As part of routine mine operations, NMPL will undertake risk assessments 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.

An Emergency Procedures Manual will be developed for the mine 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 as follows.

- (i) notification of the emergency (internal and/or external);
- (ii) protection of personnel as a first priority; and
- (iii) protection of the environment, plant and equipment.

Initially each of steps (ii) and (iii) would 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 DECC and other relevant authorities.

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

9 APPENDICES

Appendix 1: Project Approval (PA) 06_0308

No. of pages = 43

Appendix 2: Program for Implementation of Project Approval Conditions

No. of pages = 26

9.1 Appendix 1: Project Approval (PA) 06_0308

9.2 Appendix 2: Program for Implementing Project Approval Conditions

PREAMBLE

This document has been prepared to outline how Namoi Mining Pty Ltd intends to implement the conditional requirements included in the project approval issued by the Minister for Planning 24 September 2008. The various conditional requirements have been sorted and arranged with respect to time requirements and activities under the following headings.

1. General administrative requirements.
2. Activities to be carried out prior to commencement of construction.
3. Activities to be carried out within 1 month of the date of project approval.
4. Activities to be carried out within 3 months of the date of project approval.
5. Activities to be carried out within 6 months of the date of project approval.
6. Activities to be carried out within 12 months of the date of project approval.
7. Activities to be carried out within 2 years of the date of project approval.
8. Other activities to be completed under this project approval.

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
General Administrative Requirements					
2(1)	The Proponent shall implement all practical measures to prevent and/or minimise any 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 other environmental documentation are implemented. 	<ul style="list-style-type: none"> Annual Compliance Report which will form part of AEMR. 	Mine Manager and Environmental Officer	<input type="checkbox"/> DoP
2(2)	The Proponent shall carry out the project generally in accordance with the: <ul style="list-style-type: none"> (a) EA; (b) Sunnyside Coal Project Response to Public and Government Agency Submissions (June 2008); (c) Sunnyside Coal Project Supplementary Response to Submissions (July 2008); (d) statement of commitments; and (e) conditions of this [PA 06_0308] approval. 	<ul style="list-style-type: none"> Ensure all personnel and contractors are aware of conditional requirements. 	<ul style="list-style-type: none"> Annual Compliance Report which will form part of AEMR. 	Mine Manager and Environmental Officer	<input type="checkbox"/> DoP
2(3)	If there is any inconsistency between the above documents, the latter 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"> As Above 	<ul style="list-style-type: none"> Annual Compliance Report which will form part of AEMR. 	Mine Manager and Environmental Officer	<input type="checkbox"/> DoP
2(4)	The Proponent shall comply with any reasonable and feasible requirements of the Director-General arising from the Department's assessment of: <ul style="list-style-type: none"> (a) any reports, plans, programs, strategies or correspondence that are submitted in accordance with the conditions of this approval; and (b) the implementation of any actions or measures contained in these reports, plans, programs, strategies or correspondence. 	<ul style="list-style-type: none"> All reports, plans and correspondence required by this project approval are to be submitted to the Director-General on time. 	<ul style="list-style-type: none"> In the event the Director-General issues a requirement, a letter will be sent to the Director-General at the completion of requested works / actions and these will be reported in the following AEMR. 	Mine Manager and Environmental Officer	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
General Administrative Requirements					
5(10)	<p>Within 3 months of the approval of any strategy/plan/ program required under this approval (or any subsequent revision of these strategies/plans/ programs), or the completion of the audits or AEMRs required under this approval, the Proponent shall:</p> <p>(a) provide a copy of the relevant document/s to the relevant agencies and CCC; and</p> <p>(b) put a copy of the relevant document/s on its website.</p>	<ul style="list-style-type: none"> All strategies, plans and programs are to be prepared as specified by the project approval. The Company will post all relevant strategies, plans and programs once approved, on its website. All documents will be distributed as specified by the project approval. 	<ul style="list-style-type: none"> A copy of correspondence sent to and received from the appropriate agencies is to be kept by NMPL. 	Mine Manager and Environmental Officer	<input type="checkbox"/> DoP
5(11)	<p>During the project, the Proponent shall:</p> <p>(a) make a summary of monitoring results required under this approval publically available at the mine and on its website; and</p> <p>(b) update these results on a regular basis (at least every three months).</p>	<ul style="list-style-type: none"> Ongoing maintenance of monitoring results on company database Monitoring actions performed at required frequencies as specified in applicable management plans. 	<ul style="list-style-type: none"> Quarterly Environmental Monitoring Report as submitted to the CCC, with copies made available to relevant authorities. 	Environmental Officer	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Prior to Commencement of Development					
3(9)	The Proponent shall prepare and implement a detailed Noise Monitoring Program for the project to the satisfaction of the Director-General. This program must: (a) be prepared in consultation with the DECC; (b) be submitted to the Director-General for approval prior to carrying out any development on site; and (c) include; <ul style="list-style-type: none"> attended noise monitoring measures; and a noise monitoring protocol for evaluating compliance with the noise impact assessment and land acquisition criteria in this approval. 	<ul style="list-style-type: none"> Noise Monitoring Program to be prepared in accordance with the project approval and attached to the MOP and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> Noise Monitoring Program (to be attached to the MOP). Analysis results from monitoring events. 	Environmental Officer to prepare on basis of Environmental Assessment. Mine Manager to implement.	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
3(14)	At least 2 months before carrying out any blasting on the site, the Proponent shall advise all landowners within 2km of proposed blasting activities, and any other landowner nominated by the Director-General, that they are entitled to a property inspection to establish the baseline condition of the property.	<ul style="list-style-type: none"> Liaison with adjoining holders within 2km of proposed blast activity. 	<ul style="list-style-type: none"> Diarised entry identifying date, time and method of notification. 	Environmental Officer	<input type="checkbox"/> DoP
3(15)	If the Proponent receives a written request for a property inspection from any such landholder, the proponent shall: (a) commission a suitably qualified person, whose appointment has been approved by the Director-General, to inspect and report on the condition of any building or structure on the land, and recommend measures to mitigate any potential blasting impacts; and (b) give the landowner a copy of this property inspection report.	<ul style="list-style-type: none"> Engagement of qualified person to undertake property inspection as required under the project approval. 	<ul style="list-style-type: none"> Property Inspection Report. 	Environmental Officer Appointed Engineer to undertake inspection.	<input type="checkbox"/> DoP
3(17)	Prior to the commencement of blasting, the Proponent shall prepare and implement a detailed Blast Monitoring Program for the project in consultation with DECC, and to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Blasting Monitoring Program to be prepared in accordance with the project approval, attached to the MOP and submitted to the Director-General on 	<ul style="list-style-type: none"> Blasting Monitoring Program (to be attached to the MOP). 	Environmental Officer to prepare on basis of Environmental Assessment. Mine Manager to implement.	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Prior to Commencement of Development					
		completion.			
3(19)	The Proponent shall prepare and implement an Air Quality Monitoring Program for the project to the satisfaction of the Director-General. This program must: (a) be submitted to the Director-General prior to the commencement of construction activities; (b) be prepared in consultation with the DECC; and (c) use a combination of high volume samplers and dust deposition gauges to monitor the performance of the project.	<ul style="list-style-type: none"> Air Quality Monitoring Program to be prepared in accordance with the project approval and attached to the MOP and submitted to the Director-General for approval. 	<ul style="list-style-type: none"> Air Quality Monitoring Program (to be attached to MOP). Analysis results from both high volume samplers and dust deposition gauges. 	Environmental Officer to prepare on basis of Environmental Assessment. Mine Manager to implement	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
3(22)	The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Director-General. This plan must be submitted to the Director-General for approval prior to the commencement of construction activities (not including public road upgrades other than the realignment of Coochooboonah Lane) in consultation with the DECC and DWE by suitably expert/s whose appointment/s have been approved by the Director-General and include a: (a) Site Water Balance; (b) Erosion and Sediment Control Plan; (c) Surface Water Monitoring Plan; (d) Groundwater Monitoring Program; and (e) Groundwater Contingency Plan.	<ul style="list-style-type: none"> Water Management Plan to be prepared in accordance with the condition and attached to the MOP and submitted to the Director-General on completion. 	<ul style="list-style-type: none"> Water Management Plan (to be attached to the MOP). 	Carbon Based Environmental P/L in conjunction with GeoTerra P/L to prepare. Mine Manager to implement.	<input type="checkbox"/> DECC <input type="checkbox"/> DoP <input type="checkbox"/> DWE

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Prior to Commencement of Development					
3(23)	<p>The Site Water Balance must:</p> <p>(a) include details of:</p> <ul style="list-style-type: none"> • sources and security of water supply; • water use on site; • water management on site; • off-site water transfers; • reporting procedures; <p>(b) describe measures to minimise water use by the project; and</p> <p>(c) be reviewed and recalculated each year using the most recent water monitoring data.</p>	<ul style="list-style-type: none"> • Inclusion of Site Water Balance in Water Management Plan in accordance with project approval. 	<ul style="list-style-type: none"> • Water Management Plan (to be attached to MOP) • AEMR including review of site water balance. 	Carbon Based Environmental P/L in conjunction with GeoTerra P/L for initial calculation and inclusion in WMP. Environmental Officer for annual review in AEMR.	<input type="checkbox"/> DECC <input type="checkbox"/> DoP <input type="checkbox"/> DWE
3(24)	<p>The Erosion and Sediment Control Plan must:</p> <p>(a) be consistent with the requirements of <i>Managing Urban Stormwater: Soils and Construction</i> manual (Landcom 2004), or its latest version;</p> <p>(b) identify activities that could cause soil erosion and generate sediment;</p> <p>(c) describe measures to minimise soil erosion and the potential for transport of sediment to downstream waters;</p> <p>(d) describe the location, function, and capacity of erosion and sediment control structures; and</p> <p>(e) describe what measures would be implemented to monitor and maintain the structures over time.</p>	<ul style="list-style-type: none"> • Inclusion of Erosion and Sediment Control Plan in the Water Management Plan in accordance with project approval. 	<ul style="list-style-type: none"> • Water Management Plan, incorporating ESCP (to be attached to MOP). 	Carbon Based Environmental P/L in conjunction with GeoTerra P/L for inclusion of ESCP in WMP.	<input type="checkbox"/> DECC <input type="checkbox"/> DoP <input type="checkbox"/> DWE
3(25)	<p>The Surface Water Monitoring Plan must include:</p> <p>(a) detailed baseline data on surface water flows and quality in creeks and other waterbodies that could be affected by the project;</p> <p>(b) surface water impact assessment criteria;</p> <p>(c) a program to monitor the impact of the project on surface water flows and quality; and</p> <p>(d) procedures for reporting the results of this monitoring.</p>	<ul style="list-style-type: none"> • Inclusion of Surface Water Monitoring Program in the Water Management Plan in accordance with the project approval 	<ul style="list-style-type: none"> • Water Management Plan, incorporating Surface Water Monitoring Program (to be attached to MOP). 	Carbon Based Environmental P/L in conjunction with GeoTerra P/L to prepare Surface Water Monitoring Plan	<input type="checkbox"/> DECC <input type="checkbox"/> DoP <input type="checkbox"/> DWE

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Prior to Commencement of Development					
3(26)	The Groundwater Monitoring Program must include: (a) further development of the regional and local groundwater model; (b) detailed baseline data to benchmark the natural variation in groundwater levels, yield and quality (including at any privately owned bores in the vicinity of the site); (c) groundwater impact assessment criteria; (d) a program to monitor the impact of the project on groundwater levels, yield and quality; and (e) procedures for reporting the results of this monitoring.	<ul style="list-style-type: none"> Inclusion of Groundwater Monitoring Program in the Water Management Plan in accordance with the project approval. 	<ul style="list-style-type: none"> Water Management Plan, incorporating Groundwater Monitoring Program (to be attached to the MOP). 	Carbon Based Environmental P/L in conjunction with GeoTerra P/L to prepare Groundwater Monitoring Program for inclusion in the WMP.	<input type="checkbox"/> DECC <input type="checkbox"/> DoP <input type="checkbox"/> DWE
3(27)	The Groundwater Contingency Plan must: (a) Provide measures to mitigate any impacts of the mine on the quality or quantity of groundwater supplies on privately owned land; (b) Establish trigger levels, benchmarks, and contingency criteria; and (c) Provide for negotiated agreements with affected landholders, including compensation where mining impacts result in increased extraction costs for landowners.	<ul style="list-style-type: none"> Inclusion of Groundwater Contingency Plan in the Water Management Plan in accordance with the project approval. 	<ul style="list-style-type: none"> Water Management Plan, incorporating Groundwater Contingency Plan (to be attached to the MOP). 	Carbon Based Environmental P/L in conjunction with GeoTerra P/L to prepare Groundwater Contingency Plan for inclusion in the WMP.	<input type="checkbox"/> DECC <input type="checkbox"/> DoP <input type="checkbox"/> DWE
3(33)	The Proponent shall prepare and implement an Aboriginal Cultural Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must: (a) be submitted the Director-General prior to the commencement of construction activities (not including public road upgrades other than the realignment of Coocooboona Lane); (b) be prepared in consultation with the DECC, and the local Aboriginal Community; (c) include a protocol for the ongoing consultation and involvement of Aboriginal communities in the conservation and management	<ul style="list-style-type: none"> Aboriginal Cultural Heritage Management Plan prepared in accordance with project approval, attached to the MOP and submitted to the Director General for approval 	<ul style="list-style-type: none"> Aboriginal Cultural Heritage Plan (for attachment to MOP) Letter of concurrence from DECC and the local Aboriginal Community 	Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Prior to Commencement of Development					
	of Aboriginal heritage on site; and (d) describe the measures that would be implemented to protect Aboriginal sites on site, or if any new Aboriginal objects or skeletal remains are discovered during the project.				
3(35)	Prior to the transport of any coal off-site, the Proponent shall: (a) construct a realignment of Coocooboonah Lane to the satisfaction of the landowner and Council; (b) upgrade the intersection of Coocooboonah Lane and the Oxley Highway to the satisfaction of the RTA and Council; (c) upgrade the intersection of the Oxley Highway and Blackjack Road to the satisfaction of the RTA and Council; (d) upgrade the section of Blackjack Road to be used for coal transport to the satisfaction of Council; (e) upgrade the intersection of Blackjack Road and Quia Road to the satisfaction of Council; (f) upgrade the section of Quia Road to be used for coal transport to the satisfaction of Council (g) upgrade the intersection of Quia Road and Farrar Road to the satisfaction of Council; (h) upgrade the intersection of Quia Road and Torrens Road to the satisfaction of Council. (i) Upgrade Torrens Road to the satisfaction of Council.	<ul style="list-style-type: none"> Completion of road and intersection construction/upgrades to the satisfaction of the relevant bodies 	<ul style="list-style-type: none"> Letter of satisfaction from the landowner of the Coocooboonah Lane re-alignment Letter of satisfaction from Council Letter of satisfaction from RTA 	Mine Manager	<input type="checkbox"/> GSC <input type="checkbox"/> RTA
3(36)	Prior to carrying out any development on-site, the proponent shall prepare, and subsequently implement, a Construction Traffic Management Plan for the project to the satisfaction of the RTA and Council.	<ul style="list-style-type: none"> Construction Traffic Management Plan prepared to the satisfaction of RTA and GSC 	<ul style="list-style-type: none"> Construction Traffic Management Plan (for attachment to MOP) Letter of satisfaction from RTA Letter of satisfaction from GSC 	Environmental Officer	<input type="checkbox"/> RTA <input type="checkbox"/> GSC
3(38)	Prior to transporting coal from the site, the Proponent shall construct 2 bus stops on the Oxley Highway to the satisfaction of Council.	<ul style="list-style-type: none"> Construction of 2 bus stops to the 	<ul style="list-style-type: none"> Letter of satisfaction from GSC 	Mine Manager	<input type="checkbox"/> GSC

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Prior to Commencement of Development					
		satisfaction of GSC			
3(43)	<p>The Proponent shall prepare and implement a Waste Management Plan for the project to the satisfaction of the Director-General. This plan must;</p> <p>(a) Be submitted to the Director-General for approval prior to commencing of construction;</p> <p>(b) Identify waste streams of the project;</p> <p>(c) Describe what measures would be implemented to reuse, recycle, or minimise the waste generated by the project;</p> <p>(d) Ensure irrigation of treated wastewater is undertaken in accordance with Environmental Guidelines; Use of Effluent by Irrigation (DEC, 2004), or its latest version; and</p> <p>(e) Include a program to monitor the effectiveness of these measures</p>	<ul style="list-style-type: none"> ▪ Waste Management Plan to be prepared in accordance with the project approval and attached to the MOP and submitted to the Director-General for approval. 	<ul style="list-style-type: none"> • Waste Management Plan (to be attached to the MOP) 	Environmental Officer	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Prior to Commencement of Development					
5(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 be submitted to the Director-General prior to the commencement of construction activities, and:</p> <ul style="list-style-type: none"> (a) provide the strategic context for environmental management of the project; (b) identify the statutory requirements that apply to the project; (c) describe in general how the environmental performance of the project would be monitored and managed; (d) 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; • respond to any non-compliance; • manage cumulative impacts; and • respond to emergencies; and (e) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project. 	<ul style="list-style-type: none"> • Compile and submit this document. 	<ul style="list-style-type: none"> • Environmental Management Strategy 	Environmental Officer and Mine Manager	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Within 1 Month of the Date of Project Approval					
4(1)	Within 1 month of this approval the Proponent shall notify the owner of "Lilydale" in writing that he/she has the right to require the Proponent to acquire their land at any stage during the project	<ul style="list-style-type: none"> Notification in writing to owners of "Lilydale" of their right for NMPL to acquire their land 	<ul style="list-style-type: none"> Written notification to owners of "Lilydale" 	General Manager	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Within 3 Months of the Date of Project Approval					
3(42)	<p>The Proponent shall prepare and implement a Energy Savings Action Plan for the project to the satisfaction of the Director-General. This plan must:</p> <p>(a) be prepared in accordance with the <i>Guidelines for Energy Savings Action Plans</i> (DEUS, 2005), or its latest version;</p> <p>(b) include consideration of energy use by mobile equipment;</p> <p>(c) be submitted to the Director-General for approval within 3 months of this approval; and</p> <p>(d) include a program to monitor the effectiveness of measures to reduce energy use on site.</p>	<ul style="list-style-type: none"> Energy Savings Action Plan as per the condition of consent and submitted to the Director General for approval. 	<ul style="list-style-type: none"> Energy Savings Action Plan for attachment to MOP. 	Environmental Officer or Consultant	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
5(9)	Within 3 months of this approval, the Proponent shall establish a Community Consultative Committee (CCC) for the project. The CCC must be established and operated in accordance with the <i>Guideline for Establishing and Operating Community Consultative Committees for Mining Projects</i> (Department of Planning, 2007), or its latest version, and to the satisfaction of the Director General.	<ul style="list-style-type: none"> CCC establishment 	<ul style="list-style-type: none"> Approval of DoP to members of the CCC committee 	Environmental Officer	<input type="checkbox"/> DoP
2(15)	By 31 November 2008, and on each anniversary of that date until and including 2012, the Proponent shall provide development	<ul style="list-style-type: none"> Establishment of Community 	<ul style="list-style-type: none"> Written advice from GSC in concurrence 	General Manager	<input type="checkbox"/> GSC

	contributions of \$100,000 per annum to the Gunnedah Shire Council for expenditure by the Council on community enhancement projects.	Enhancement Fund	with Community Enhancement Fund		
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Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Within 6 Months of the Date of Project Approval					
3(30)	The Proponent shall prepare and implement a detailed Rehabilitation and Landscape Management Plan for the site to the satisfaction of the Director-General and DPI. This plan must:	<ul style="list-style-type: none"> Preparation and implementation of Rehabilitation and Landscape Management Plan as per Project Approval. 	<ul style="list-style-type: none"> Rehabilitation and Landscape Management Plan as approved by DoP and DPI 	Environmental Officer in conjunction with consultant for preparation of plan	<input type="checkbox"/> DWE <input type="checkbox"/> DECC <input type="checkbox"/> DoP <input type="checkbox"/> DPI <input type="checkbox"/> GSC
3(30) cont.	(a) be prepared in consultation with DECC, DWE and Council by suitably qualified expert/s whose appointment/s have been approved by the Director-General; and (b) be submitted to the Director-General and DPI for approval by 1 st March 2009; (c) include: <ul style="list-style-type: none"> the rehabilitation objectives for the site; a description of how the rehabilitation of the site would be integrated with the landscape of the surrounding area; detailed performance and completion criteria for the rehabilitation of the site; a detailed description of the measures that would be implemented to achieve the performance and completion criteria for each site, including the procedures to be implemented for <ul style="list-style-type: none"> progressively rehabilitating the areas disturbed by mining operations; revegetating the site; protecting and/or enhancing areas in the vicinity of the disturbance area; conserving and re-using any topsoil; controlling weeds and feral pests; controlling access; and bushfire management. a program to monitor the performance of the rehabilitation against the stated objectives, performance and completion 				

	<p>criteria;</p> <ul style="list-style-type: none"> • a description of the potential risks to successful rehabilitation, and a description of the contingency measures that would be implemented to minimise these risks; and • details of who is responsible for monitoring, reviewing and implementing the plan. 				
3(37)	<p>Within 6 months of this approval the Proponent shall enter into an agreement with Council for the maintenance of the section of the Oxley Highway between Coochooboonah Lane and Blackjack Road.</p>	<ul style="list-style-type: none"> • Formal agreement entered into with GSC 	<ul style="list-style-type: none"> • Signed agreements as required under the Project Approval 	General Manager	<input type="checkbox"/> GSC
5(2)	<p>The Proponent shall prepare and implement an Environmental Monitoring Program for the project to the satisfaction of the Director-General. This program must be submitted to the Director-General within 6 months of this approval and consolidate the various monitoring requirements in schedule 3 of this approval into a single document.</p>	<ul style="list-style-type: none"> • Environmental Monitoring Program as approved by the Director General 	<ul style="list-style-type: none"> • Environmental Monitoring Program as approved by the DoP 	Environmental Officer	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Within 12 Months of the Date of Project Approval					
5(5)	<p>Within 12 months of this approval, and annually thereafter, the Proponent shall submit an AEMR to the Director-General and to all relevant agencies. This report must:</p> <ul style="list-style-type: none"> (a) identify the standards and performance measures that apply to the project; (b) describe the works carried out in the last 12 months; (c) describe the works that would be carried out in the next 12 months; (d) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years; (e) include a summary of the monitoring results for the project during the past year; (f) include an analysis of these monitoring results against the relevant: <ul style="list-style-type: none"> • impact assessment criteria/limits; • monitoring results from previous years; and • predictions in the EA; (g) identify any trends in the monitoring results over the life of the project; (h) identify any non-compliance during the previous year; and (i) describe what actions were, or are being, taken to ensure compliance. 	<ul style="list-style-type: none"> • Prepare the AEMR – based upon information compiled regularly throughout each operational year. 	<ul style="list-style-type: none"> • Completed AEMR. 	Environmental Officer and Mine Manager	<input type="checkbox"/> DoP <input type="checkbox"/> GSC <input type="checkbox"/> DECC <input type="checkbox"/> DPI-MR <input type="checkbox"/> DWE

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Activities to be Carried Out Within 2 Years of the Date of Project Approval					
5(6)	<p>Within 2 years of this approval, and every 3 years thereafter, 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> <p>(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General;</p> <p>(b) include consultation with the relevant agencies;</p> <p>(c) assess the environmental performance of the project and assess whether it is complying with the relevant requirements in this approval and any relevant mining lease or EPL (including any strategy, plan or program required under these approvals);</p> <p>(d) review the adequacy of strategies, plans or programs required under these approvals; and, if appropriate,</p> <p>(e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals.</p>	<ul style="list-style-type: none"> Completion of audit submitted for approval 	<ul style="list-style-type: none"> Audit document and action plan on basis of audit 	Environmental Officer to engage suitably qualified expert	<input type="checkbox"/> DoP
5(7)	<p>Within 6 weeks of the completing 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"> Submission of audit to Director General with company response/action plan 	<ul style="list-style-type: none"> Audit document and action plan 	Environmental Officer	<input type="checkbox"/> DoP
5(8)	<p>Within 3 months of submitting the audit report to the Director-General, the Proponent shall review, and if necessary revise the strategies/plans/programs required under this approval to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> Review of strategies, plans or programs to the satisfaction of the Director General 	<ul style="list-style-type: none"> Amended plans based on review 	Environmental Officer	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Other Actions Required Under the Project Approval					
2(5)	Mining operations may take place on the site for 7 years from the grant of the mining lease for the project.	<ul style="list-style-type: none"> Mining for a period of no more than 7 years 	<ul style="list-style-type: none"> Advice to and acceptance from DPI as to cessation of production 	Mine Manager	<input type="checkbox"/> DPI
2(6)	The Proponent shall not extract more than 1 million tonnes of ROM coal a year from the site.	<ul style="list-style-type: none"> Extraction not to exceed 1 Mtpa 	<ul style="list-style-type: none"> Production schedules 	Mine Manager	<input type="checkbox"/> DoP
2(7)	The Proponent shall use the coal transport route shown in Figure 2 of Appendix 2 to transport all coal from the site to the Whitehaven Siding CHPP	<ul style="list-style-type: none"> Coal transport from site along defined transport route only 	<ul style="list-style-type: none"> N/A 	Haulage Contractor and Mine Manager	<input type="checkbox"/> DoP
2(8)	Construction activities may take place only between 7 am to 6 pm Monday to Friday and 7 am to 4 pm on Saturdays and not on Public Holidays.	<ul style="list-style-type: none"> Construction activities to remain within hours specified in Project Approval. 	<ul style="list-style-type: none"> Construction timetable and schedules 	Mine Manager	<input type="checkbox"/> DoP
2(9)	Mining operations may take place only between 7 am to 10 pm Monday to Friday and 7 am to 6 pm on Saturdays and not on Public Holidays.	<ul style="list-style-type: none"> Mining operations to remain within hours specified in Project Approval. 	<ul style="list-style-type: none"> Operations timetable and schedules 	Mine Manager	<input type="checkbox"/> DoP
2(10)	Transport of coal may take place only between 7 am to 6 pm Monday to Friday (or between 7am to 8pm during Eastern Summer Time) and between 7:00am to 4:00pm on Saturdays and not on public holidays.	<ul style="list-style-type: none"> Transport coal from the site in the approved hours only 	<ul style="list-style-type: none"> Coal transport and truck movement records to be included in AEMR 	Haulage Contractor and Mine Manager	<input type="checkbox"/> DoP
2(11)	With the approval of the Director-General, the Proponent may submit any management plan or monitoring program required by this approval on a progressive basis	<ul style="list-style-type: none"> Obtain concurrence from DoP 	<ul style="list-style-type: none"> Letter of Concurrence from DoP 	Environmental Officer	<input type="checkbox"/> DoP
2(12)	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.	<ul style="list-style-type: none"> All buildings and structures to comply with BCA 	<ul style="list-style-type: none"> Compliance certificates if required 	Mine Manager	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency				
Other Actions Required Under the Project Approval									
2(13)	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"> All demolition is compliant with AS 2601-2001 	<ul style="list-style-type: none"> Compliance certificates if required 	Mine Manager	<input type="checkbox"/> DoP				
2(14)	The Proponent shall ensure that all plant and equipment used on site is: <ul style="list-style-type: none"> (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner. 	<ul style="list-style-type: none"> Personnel training in proper operations and regular maintenance scheduling 	<ul style="list-style-type: none"> Service sheets 	Mine Manager	<input type="checkbox"/> DoP				
3(1)	Upon receiving a written request for acquisition from the owner of "Lilydale", the Proponent shall acquire the land in accordance with the procedures in conditions 8-10 of schedule 4	<ul style="list-style-type: none"> Acquisition of "Lilydale" upon request of owners in accordance with project approval 	<ul style="list-style-type: none"> Legal documentation in relation to the acquisition of "Lilydale" by NMPL 	General Manager	<input type="checkbox"/> DoP				
3(2)	<p>The Proponent shall ensure that the noise generated during the construction of the project does not exceed the level set out in Table 1:</p> <p><i>Table 1: Construction noise impact assessment criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th>Day/Evening <i>LA10(15 minute)</i></th> <th>Land</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")</td> </tr> </tbody> </table>	Day/Evening <i>LA10(15 minute)</i>	Land	40	Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")	<ul style="list-style-type: none"> Monitoring in accordance with Noise Monitoring Program 	<ul style="list-style-type: none"> Reporting by qualified consultants in accordance with Noise Monitoring Program 	Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
Day/Evening <i>LA10(15 minute)</i>	Land								
40	Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")								

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency				
Other Actions Required Under the Project Approval									
3(3)	<p>The Proponent shall ensure that the noise generated during mining operations and other activities on the site does not exceed the level set out in Table 2:</p> <p><i>Table 2: Operational noise impact assessment criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th>Day/Evening <i>L_{Aeq}(15 minute)</i></th> <th>Land</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")</td> </tr> </tbody> </table> <p>However, if the Proponent has a written negotiated noise agreement with any landowner of any land, and a copy of this agreement has been forwarded to the Department and DECC, then the Proponent may exceed the noise limits in Table 1 or Table 2 on that land in accordance with the negotiated noise agreement.</p>	Day/Evening <i>L_{Aeq}(15 minute)</i>	Land	35	Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")	<ul style="list-style-type: none"> Monitoring in accordance with Noise Monitoring Program 	<ul style="list-style-type: none"> Reporting by qualified consultants in accordance with Noise Monitoring Program 	Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
Day/Evening <i>L_{Aeq}(15 minute)</i>	Land								
35	Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")								
3(4)	<p>If the noise generated by the project exceeds the criteria in Table 3, the Proponent shall, upon receiving a written request for acquisition from the landowner, acquire the land in accordance with the procedures in conditions 8-10 of schedule 4</p> <p><i>Table 3: Land acquisition criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th>Day/Evening <i>L_{Aeq}(15 minute)</i></th> <th>Land</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")</td> </tr> </tbody> </table>	Day/Evening <i>L_{Aeq}(15 minute)</i>	Land	40	Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")	<ul style="list-style-type: none"> Acquisition of land in accordance with project approval 	<ul style="list-style-type: none"> Legal documentation in relation to the acquisition of land by NMPL 	General Manager – New Projects	<input type="checkbox"/> DoP
Day/Evening <i>L_{Aeq}(15 minute)</i>	Land								
40	Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")								

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Other Actions Required Under the Project Approval					
3(5)	<p>Upon receiving a written request from the landowner of:</p> <p>(a) "Illili", "Ferndale", or</p> <p>(b) Any residence on privately owned land where noise generated by the project exceeds 37dB(A) $L_{Aeq(15\text{ minute})}$</p> <p>The proponent shall implement additional noise mitigation measures such as double glazing, insulation, and/or air conditioning at any residence on the land in consultation with the landowner.</p> <p>These additional mitigation measures must be reasonable and feasible.</p> <p>If within 3 months of receiving this request from the landowner, the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director General for resolution.</p> <p>Within 3 months of this approval, the Proponent shall notify all applicable landowners of their entitlements under this condition.</p>	<ul style="list-style-type: none"> • Implementation of noise mitigation measures as per condition • Notification of all applicable landowners of their noise mitigation entitlements 	<ul style="list-style-type: none"> • Documentation of noise mitigation measures implemented • Documentation of notification to applicable landowners • Reporting of actions and effectiveness in AEMR 	Mine Manager and Environmental Officer	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency				
Other Actions Required Under the Project Approval									
3(6)	<p>The Proponent shall implement all reasonable and feasible measures to ensure that the traffic noise generated by the project combined with the traffic noise generated by other mines does not exceed the traffic noise impact assessment criteria in Table 4:</p> <p><i>Table 4: Traffic noise criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th>Day/Evening $L_{Aeq}(1 \text{ hour})$</th> <th>Road</th> </tr> </thead> <tbody> <tr> <td>55</td> <td>Any residence adjacent to Torrens Road</td> </tr> </tbody> </table>	Day/Evening $L_{Aeq}(1 \text{ hour})$	Road	55	Any residence adjacent to Torrens Road	<ul style="list-style-type: none"> Monitoring in accordance with Noise Monitoring Program Implementation of noise mitigation measures as required as per condition 	<ul style="list-style-type: none"> Reporting of actions and effectiveness in AEMR Reporting by qualified consultants in accordance with Noise Monitoring Program 	Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
Day/Evening $L_{Aeq}(1 \text{ hour})$	Road								
55	Any residence adjacent to Torrens Road								
3(7)	<p>If the traffic noise generated by the project exceeds the criteria in Table 4, the Proponent shall, upon receiving a written request from any landowner adjacent to Torrens Road, implement noise mitigation measures such as double glazing, insulation, and/or air conditioning at any residence on the land in consultation with the landowner.</p> <p>These additional mitigation measures must be reasonable and feasible.</p> <p>If within 3 months of receiving this request from the landowner, the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.</p> <p>Within 3 months of this approval, the Proponent shall notify all applicable landowners of their entitlements under this condition.</p>	<ul style="list-style-type: none"> Monitoring in accordance with Noise Monitoring Program Implementation of noise mitigation measures as required as per condition 	<ul style="list-style-type: none"> Reporting of actions and effectiveness in AEMR Reporting by qualified consultants in accordance with Noise Monitoring Program 	Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP				

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency						
Other Actions Required Under the Project Approval											
3(8)	<p>The Proponent shall:</p> <p>(a) implement all reasonable and feasible best practice noise mitigation measures;</p> <p>(b) investigate ways to reduce the noise generated by the project, including off-site road and rail noise; and</p> <p>(c) report on these investigations and the implementation and effectiveness of these measures in the AEMR, to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> Investigation of best practice to minimise noise impact 	<ul style="list-style-type: none"> Reporting of actions and effectiveness in AEMR 	Environmental Officer	<input type="checkbox"/> DoP						
3(10)	<p>The Proponent shall ensure that the airblast overpressure level from blasting at the project does not exceed the criteria in Table 5 at any residence on privately-owned land.</p> <p><i>Table 6: Airblast overpressure impact assessment criteria)</i></p> <table border="1"> <thead> <tr> <th>Airblast overpressure level (dB(Lin Peak))</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td>115</td> <td>5% of the total number of blasts in a 12 month period</td> </tr> <tr> <td>120</td> <td>0%</td> </tr> </tbody> </table>	Airblast overpressure level (dB(Lin Peak))	Allowable exceedance	115	5% of the total number of blasts in a 12 month period	120	0%	<ul style="list-style-type: none"> Blast monitoring at every blast 	<ul style="list-style-type: none"> Blast monitor reports from every blast 	Blasting Contractor and Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
Airblast overpressure level (dB(Lin Peak))	Allowable exceedance										
115	5% of the total number of blasts in a 12 month period										
120	0%										
3(11)	<p>The Proponent shall ensure that the ground vibration level from blasting, or any other activity at the project does not exceed the criteria in Table 6 at any residence on privately-owned land.</p> <p><i>Table 7: Ground vibration impact assessment criteria)</i></p> <table border="1"> <thead> <tr> <th>Peak particle velocity (mm/s)</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5% of the total number of blasts in a 12 month period</td> </tr> <tr> <td>10</td> <td>0%</td> </tr> </tbody> </table>	Peak particle velocity (mm/s)	Allowable exceedance	5	5% of the total number of blasts in a 12 month period	10	0%	<ul style="list-style-type: none"> Blast monitoring at every blast 	<ul style="list-style-type: none"> Blast monitor reports from every blast 	Blasting Contractor and Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
Peak particle velocity (mm/s)	Allowable exceedance										
5	5% of the total number of blasts in a 12 month period										
10	0%										

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Other Actions Required Under the Project Approval					
3(12)	The Proponent shall carry out blasting on site only between 10am and 5 pm Monday to Friday and 10am and 2pm on Saturdays (excepting Public Holidays)	<ul style="list-style-type: none"> Scheduling of blasting within this timeframe only 	<ul style="list-style-type: none"> Blast monitor reports 	Mine Manager	<input type="checkbox"/> DoP
3(13)	The Proponent shall not carry out more than: <ul style="list-style-type: none"> (a) 2 blasts a day; (b) 5 blasts a week, averaged over any 12 month period; on site. 	<ul style="list-style-type: none"> Blasting in accordance with these conditions only 	<ul style="list-style-type: none"> Blast monitor reports 	Mine Manager	<input type="checkbox"/> DoP
3(16)	<p>If any landowner within a 2 km of proposed blasting activities, or any other landowner nominated by the Director-General, claims that his/her property, including vibration-sensitive infrastructure such as water supply or underground irrigation mains, has been damaged as a result of blasting at the project, the Proponent shall within 3 months of receiving this request:</p> <ul style="list-style-type: none"> (a) commission a suitably qualified person whose appointment has been approved by the Director-General to investigate the claim and prepare a property investigation report; and (b) give the landowner a copy of the report. <p>If this independent investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damage to the satisfaction of the Director-General.</p> <p>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"> Appointment of qualified person to investigate and report on the claim 	<ul style="list-style-type: none"> Report from qualified person on the claim 	Mine Manager	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency																							
Other Actions Required Under the Project Approval																												
3(18)	<p>The Proponent shall ensure that dust emissions generated by the project do not cause additional exceedances of the criteria listed in Tables 7 to 9 at any residence on privately owned land, or on more than 25 percent of any privately-owned land.</p> <p><i>Table 7: Long term impact assessment criteria for particulate matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>90 µg/m³</td> </tr> <tr> <td>Particulate matter <10µm (PM₁₀)</td> <td>Annual</td> <td>30 µg/m³</td> </tr> </tbody> </table> <p><i>Table 8: Short term impact assessment criteria for particulate matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter <10µm (PM₁₀)</td> <td>24 hour</td> <td>50 µg/m³</td> </tr> </tbody> </table> <p><i>Table 9: Long term impact assessment 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>Deposited dust</td> <td>Annual</td> <td>2 g/m²/month</td> <td>4 g/m²/month</td> </tr> </tbody> </table>	Pollutant	Averaging Period	Criterion	Total suspended particulate (TSP) matter	Annual	90 µg/m ³	Particulate matter <10µm (PM ₁₀)	Annual	30 µg/m ³	Pollutant	Averaging Period	Criterion	Particulate matter <10µm (PM ₁₀)	24 hour	50 µg/m ³	Pollutant	Averaging Period	Maximum increase in deposited dust level	Maximum total deposited dust level	Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month	<ul style="list-style-type: none"> Monitoring in accordance with Project Approval 	<ul style="list-style-type: none"> Monitoring results at frequency required in Project Approval 	Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
Pollutant	Averaging Period	Criterion																										
Total suspended particulate (TSP) matter	Annual	90 µg/m ³																										
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Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month																									
3(20)	<p>During the project, the Proponent shall ensure there is a suitable meteorological station on site that complies with the requirements in <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> (DECC, 2007), or its latest version.</p>	<ul style="list-style-type: none"> Siting of Met Station on site as required 	<ul style="list-style-type: none"> Evidence of results obtained from Met Station 	Environmental Officer	<input type="checkbox"/> DoP																							

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Other Actions Required Under the Project Approval					
3(21)	Except as may be expressly provided for by an EPL, or in accordance with section 120 of the <i>Protection of the Environment Operations Act 1997</i> , the Proponent shall not discharge any mine water from the site	<ul style="list-style-type: none"> Discharge in compliance with EPL criteria only 	<ul style="list-style-type: none"> Annual Licence Return to DECC (EPA) 	Environmental Officer	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
3(28)	The Proponent shall implement the koala habitat management and enhancement actions described in the EA (shown conceptually in Figure 6 in Appendix 4) in consultation with the DECC and to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Implementation of strategies defined in Koala management plan. 	<ul style="list-style-type: none"> Evidence of acceptance of strategies from DECC and DoP. 	Environmental Officer and Mine Manager	<input type="checkbox"/> DECC <input type="checkbox"/> DoP
3(29)	The Proponent shall rehabilitate the site to the satisfaction of the Director-General and DPI	<ul style="list-style-type: none"> Complete rehabilitation to the satisfaction of DoP and DPI 	<ul style="list-style-type: none"> Formal acceptance of rehabilitation and release from lease 	Environmental Officer and Mine Manager	<input type="checkbox"/> DoP <input type="checkbox"/> DPI
3(31)	At least 2 years prior to the cessation of mining operations on the site the Proponent shall prepare a Mine Closure Plan. This plan must: <ol style="list-style-type: none"> define the objectives and criteria for mine closure; investigate options for the future use of the site; provide a detailed methodology for decommissioning the site's storage dams; investigate ways to minimise the adverse socio-economic effects associated with mine closure, including reduction in local and regional employment levels; describe the measures that would be implemented to minimise or manage the on-going environmental effects of the project, and describe how the performance of these measures would be monitored over time. 	<ul style="list-style-type: none"> Complete Mine Closure Plan at least 2 years prior to cessation of mining 	<ul style="list-style-type: none"> Completed Mine Closure Plan 	Environmental Officer in conjunction with consultant completing the plan	<input type="checkbox"/> DWE <input type="checkbox"/> DECC <input type="checkbox"/> DoP <input type="checkbox"/> GSC

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Other Actions Required Under the Project Approval					
3(32)	The Proponent shall not destroy any known Aboriginal objects (as defined in the <i>National Parks and Wildlife Act 1974</i>) without the written approval of the Director-General	<ul style="list-style-type: none"> No Aboriginal objects to be destroyed 	<ul style="list-style-type: none"> N/A 	Environmental Officer and Mine Manager	<input type="checkbox"/> DoP <input type="checkbox"/> DECC
3(34)	The Proponent shall keep records of the amount of coal transported from the site each year, and include these records in the AEMR.	<ul style="list-style-type: none"> Accurate records to be kept of coal transported 	<ul style="list-style-type: none"> Coal transport records to be included in AEMR 	Haulage Contractor and Mine Manager	<input type="checkbox"/> DoP
3(39)	Notwithstanding condition 10 of Schedule 2, The Proponent shall ensure no coal is transported from the site During AgQuip	<ul style="list-style-type: none"> No coal transported from the site during AgQuip 	<ul style="list-style-type: none"> Accurate records to be kept of when coal is transported 	Haulage Contractor and Mine Manager	<input type="checkbox"/> DoP
3(40)	The Proponent shall minimise the visual impact of the project to the satisfaction of the Director-General	<ul style="list-style-type: none"> Minimise visual impacts to the satisfaction of the Director-General 	<ul style="list-style-type: none"> Reporting of actions and effectiveness in AEMR 	Mine Manager and Environmental Officer	<input type="checkbox"/> DoP
3(41)	The Proponent shall ensure that: <ul style="list-style-type: none"> (a) no outdoor lights shine above the horizontal; and (b) all external lighting associated with the project complies with <i>Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting</i> 	<ul style="list-style-type: none"> Regular monitoring to ensure compliance Implement all practical off-site lighting mitigation 	<ul style="list-style-type: none"> N/A 	Mine Manager and Environmental Officer	<input type="checkbox"/> DoP

Schedule (Condition No.)	Condition / Comment	Actions Required to Achieve Compliance	Documentation Required to Demonstrate Compliance	Personnel Responsible	Authorising/ Responsible Agency
Other Actions Required Under the Project Approval					
4(2)	If the results of monitoring required in schedule 3 identify that impacts generated by the project are greater than the relevant impact assessment criteria in schedule 3, then the Proponent shall notify the Director-General and the affected landowners and/or existing or future tenants (including tenants of mine owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the project is complying with the criteria in schedule 3. However, no notification is required if the impact is predicted in the EA or where an agreement has been negotiated with a landowner that excludes the requirement for ongoing notification of such impacts.	<ul style="list-style-type: none"> As per condition 	<ul style="list-style-type: none"> If relevant, notification to Director-General, and relevant affected persons as per condition Quarterly monitoring results to relevant parties 	Environmental Officer	<input type="checkbox"/> DoP
5(3)	As soon as practicable, and in any event within 24 hours of detecting an exceedance of the limits/performance criteria in this approval, or the occurrence of an incident that causes (or may cause) material harm to the environment, the Proponent shall notify the Department and other relevant agencies of the exceedance/incident.	<ul style="list-style-type: none"> Notification at time of exceedance or incident 	<ul style="list-style-type: none"> Diarised entry of time/date of report 	Environmental Officer	<input type="checkbox"/> DoP
5(4)	Within 6 days of notifying the Department and other relevant agencies of an exceedance/incident, the Proponent shall provide the Department and these agencies with a written report that: <ol style="list-style-type: none"> describes the date, time, and nature of the exceedance/incident; identifies the cause (or likely cause) of the exceedance/incident; describes what action has been taken to date; and describes the proposed measures to address the exceedance/incident. 	<ul style="list-style-type: none"> Provision of written report to DoP and other relevant agencies 	<ul style="list-style-type: none"> Copy of written report 	Environmental Officer	<input type="checkbox"/> DoP