

Appendix 2

(No. of pages excluding this page = 21)

Director-General's Requirements and Summary of Director-General's Requirements and Relevant EA Sections



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NSW GOVERNMENT
Department of Planning

Contact: Mike Young
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Our ref: S03/00047

Mr Robert Corbett
Glennies Creek Coal Management Pty Ltd
Lot 6 Enterprise Crescent
SINGLETON NSW 2330

Dear Mr Corbett

**Director-General's Requirements
Proposed Glennies Creek Open Cut Coal Mine Project**

The Department has received your application for the proposed Glennies Creek Open Cut Coal Mine Project in the Singleton local government area (reference number: 06_0073).

I have attached a copy of the Director-General's requirements for the project. These requirements have been prepared in consultation with relevant government authorities and are based on the information that you have provided to date. I have also attached a copy of the government authorities' comments for your information.

Please note that under section 75F(3) of the *Environmental Planning and Assessment Act 1979*, the Director-General may alter these requirements at any time.

I would appreciate it if you would contact the Department at least two weeks before you propose to submit your draft Environmental Assessment for the project to determine the:

- fees applicable to the application;
- consultation and public exhibition arrangements that will apply; and
- number and format (hard-copy or CD-ROM) of the Environmental Assessment that will be required.

As you may know, the Department will review the draft Environmental Assessment in consultation with the relevant authorities to determine if it adequately addresses the Director-General's requirements. If the Director-General considers the Environmental Assessment to be inadequate, you will be required to revise it prior to public exhibition.

The Director-General's requirements will be placed on the Department's website along with other relevant information which becomes available during the assessment of the project. As a result, the Department would appreciate it if the documents submitted to the Department are in a suitable format for the web, and if you would arrange for an electronic version of the Environmental Assessment for the project to be hosted on a suitable website with a link to the Department's website.

Finally, if your proposal contains any actions that could have a significant impact on Matters of National Environmental Significance, it will require an additional approval under the Commonwealth *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act). This approval would be in addition to any approvals required under NSW legislation. If you have any

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questions about the application of the EPBC Act to your proposal, you should contact the Commonwealth Department of Environment and Heritage in Canberra (6274 1111 or <http://www.deh.gov.au>).

If you have any enquiries about these requirements, please contact Mike Young, Manager of the Department's Mining & Extractive Industries team (02 9228 6481).

Yours sincerely



27.9.06

Chris Wilson
A/Executive Director
as delegate for the Director-General





NSW GOVERNMENT
Department of Planning

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Mr Robert Corbett
Glennies Creek Coal Management Pty Ltd
Lot 6 Enterprise Crescent
SINGLETON NSW 2330

Our ref: S03/00047

Dear Mr Corbett

**Modification to Director-General's Requirements
Proposed Glennies Creek Open Cut Coal Mine Project
(Project Application 06_0073)**

I wish to advise you that in accordance with section 75F(3) of the *Environmental Planning and Assessment Act 1979*, the Director-General has modified his requirements for the proposed Glennies Creek Open Cut Coal Mine Project. I have attached a copy of the modified Director-General's requirements (DGRs) for the project.

The DGRs now require a greenhouse gas assessment to be included in the Environmental Assessment for the project. The greenhouse gas assessment must include a quantitative analysis of greenhouse gas emissions associated with the combustion of product coal, and a qualitative assessment of the impacts of these emissions on the environment.

If you have any enquiries about the modified requirements, please contact Howard Reed, A/Manager of the Department's Mining & Extractive Industries team (02 9228 6308).

Yours sincerely

Yolande Stone
A/Executive Director
Major Project Assessments
As delegate for the Director-General

25/1/07



Director-General's Requirements

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

Project	The proposed Glennies Creek Open Cut Coal Mine Project, which includes: • construction and operation of a new open cut coal mine and associated infrastructure; • production of up to 1.5 million tonnes of coal over a mine life of up to 6 years; and • rehabilitation of the mine.
Site	Glennies Creek Coal Mine, approximately 12km north of Singleton
Proponent	Glennies Creek Coal Management Pty Ltd
Date of Issue	25 January 2007
Date of Expiration	25 January 2009
General Requirements	The Environmental Assessment (EA) must include: • an executive summary; • a detailed description of the project including the: - need for the project; - alternatives considered; and - various components and stages of the project; • consideration of any relevant statutory provisions; • an overview of all the environmental impacts of the project (including an environmental risk analysis) and identification of the key issues for further assessment, taking into consideration the issues raised during consultation; • a detailed assessment of the key issues specified below and any other significant issues identified in the environmental risk analysis (see above), which includes: - a description of the existing environment; - an assessment of the potential impacts of the project, including any cumulative impacts associated with the concurrent operation of the project with the other mining operations at the Glennies Creek mine as well as the operations at the Mt Owen, Ashton, Camberwell and proposed Glendell mines; - a description of the measures that would be implemented to avoid, minimise, mitigate, offset, manage, and/or monitor the impacts of the project; • a draft Statement of Commitments, outlining environmental management, mitigation and monitoring measures; • a conclusion justifying the project, taking into consideration the environmental impacts of the proposal, the suitability of the site, and whether or not the project is in the public interest; • a signed statement from the author of the Environmental Assessment certifying that the information contained in the report is neither false nor misleading.
Key Issues	• Noise – including construction, operation, traffic and rail noise impacts; • Blasting and Vibration; • Air Quality – including construction and operation related impacts; • Surface and Groundwater - including detailed modelling of potential surface and groundwater impacts, a site water balance, and a detailed description of any proposed creek diversions. A surface and groundwater contingency strategy must be included as part of the mitigation measures for the project which details the measures proposed to protect the water supply to landowners in the region and the environment; • Flora and Fauna – including impacts on critical habitats, threatened species, populations, ecological communities, groundwater dependent ecosystems and native vegetation. A comprehensive offset strategy must be included as part of the mitigation measures for the project to ensure



	that there is no net loss of flora and fauna values in the area in the medium to long term; • Rehabilitation, Final Landform and Final Void Management – including a justification for the proposed final landform and use in relation to the strategic land use objectives; a detailed description of how the site would be progressively rehabilitated and integrated into the surrounding landscape, including adjacent mines; and a detailed description of the measures that would be put in place to ensure sufficient resources are available to implement the proposed rehabilitation measures, and for the ongoing management of the site following the cessation of mining activities; • Heritage - both Aboriginal and non-Aboriginal, including conservation outcomes for significant heritage items and areas in the mine affectation zone; • Visual – including lighting impacts; • Traffic and Transport; • Social and Economic; • Greenhouse Gases - a greenhouse gas assessment (including a quantitative analysis of greenhouse gas emissions associated with the combustion of product coal, and a qualitative assessment of the impacts of these emissions on the environment); and • Cumulative Impacts - potential cumulative impacts (particularly on noise, air quality, flora and fauna, surface water and groundwater,) that may arise from the combined operation of the project, together with the other approved and existing mines in the region
References	The Environmental Assessment must take into account relevant State government technical and policy guidelines. While not exhaustive, guidelines which may be relevant to the project are included in the attached list.
Consultation	During the preparation of the Environmental Assessment, you must consult with the relevant local, State or Commonwealth government authorities, service providers, community groups or affected landowners. The consultation process and the issues raised must be described in the Environmental Assessment.
Deemed refusal period	60 days



State Government Technical and Policy Guidelines - For Reference

Aspect	Policy /Methodology
Soil and Water	- Managing Urban Stormwater: Soils and Construction Volume 1 4th Edition (Landcom); - Acid Sulfate Soil Manual (NSW Acid Sulfate Soil Advisory Committee 1998); - Guidelines for Fresh and Marine Water Quality and Guidelines for Water Quality Monitoring and Reporting (ANZECC); - Rehabilitation Manual for Australian Streams (Land and Water Resources Research and Development Corporation); - NSW State Rivers and Estuaries Policy - NSW Sand and Gravel Extraction Policy for Non Tidal Rivers (DNR); - the various State Groundwater Policy documents (DNR); - Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC); - Environmental Guidelines: Use of Effluent by Irrigation (DEC);
Flooding	Floodplain Development Manual 2005 (DNR);
Flora and Fauna	- draft Guidelines for Threatened Species Assessment (DEC); - Threatened Biodiversity Survey and Assessment: Guidelines for Development and Activities (DEC); - Guidelines for Developments Adjoining Department of Environment and Conservation Land (DEC); - Guidelines for Assessment of Aquatic Ecology in EIA (DoP); - Policy and Guidelines Aquatic Habitat Management and Fish Conservation (DPI); - NSW Wetlands Management Policy 1996 (DNR); - NSW Groundwater Dependent Ecosystem Policy (DNR); - Policy and Guidelines for Fish Friendly Waterway Crossings (DPI);
Noise	- NSW Industrial Noise Policy (DEC); - Environmental Criteria for Road Traffic Noise (DEC); - Construction Site Noise - Environmental Noise Control Manual (DEC);
Air Quality	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC);
Heritage	- draft Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation (DEC); - Assessing Heritage Significance (NSW Heritage Office); - NSW Heritage Manual (NSW Heritage Office);
Traffic	- Guide to Traffic Generating Development and Road Design Guide (RTA); - relevant Austroad standards;
Greenhouse Gases	AGO Factors and Methods Workbook (Australian Greenhouse Office);
Coastal Development	NSW Coastal Policy 1997 (Department of Planning);
Rehabilitation	Guidelines for Rehabilitation of Land for Agricultural End Use (DPI);
Waste	Environmental Guidelines: Assessment and Classification and Management of Liquid and Non-Liquid Wastes (DEC).



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Table A2-1
Director-General's Requirements from Relevant EA Sections
(Department of Planning – 25 January 2007)

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Paraphrased Requirement	Relevant EA Section
GENERAL	
The EA must include: • an executive summary; • a detailed description of the project including the: - need for the project; - alternatives considered; and - various components and stages of the project. • consideration of any relevant statutory provisions; • an overview of all the environmental impacts of the project (including an environmental risk analysis) and identification of the key issues for further assessment, taking into consideration the issues raised during consultation; • a detailed assessment of the key issues specified below and any other significant issues identified in the environmental risk analysis which includes: - a description of the existing environment; - an assessment of the potential impacts, including any cumulative impacts associated with the concurrent operation of the project with the other mining operations at the Glennies Creek mine as well as the operations at the Mt Owen, Ashton, Camberwell and proposed Glendell mines; - a description of the measures that would be implemented to avoid, minimise, mitigate, offset, manage, and/or monitor the impacts of the project; • a draft Statement of Commitments, outlining environmental management, mitigation and monitoring measures; • a conclusion justifying the project, taking into consideration the environmental impacts of the proposal, the suitability of the site, and whether or not the project is in the public interest; • a signed statement from the author of the Environmental Assessment certifying that the information contained in the report is neither false nor misleading.	Executive Summary Parts B and F Various Part C Part D Part E Part F Covering page
CONSULTATION	
Consult with the relevant local, State or Commonwealth government authorities, service providers, community groups and affected landowners. The consultation process and the issues raised must be described in the EA.	Part C
STATUTORY REQUIREMENTS AND PLANNING	
Consider relevant State government technical and policy guidelines.	Various
REHABILITATION AND FINAL LAND USE	
Include a justification for the proposed final landform and use in relation to the strategic land use objectives.	Parts D5, D8 and F
Describe how the site would be progressively rehabilitated and integrated into the surrounding landscape including adjacent mines.	Part B15
Describe measures put in place to ensure sufficient resources are available to implement the proposed rehabilitation, and ongoing management following the cessation of mining activities.	Part B15



Table A2-1 (Cont'd)
Director-General's Requirements from Relevant EA Sections
(Department of Planning – 25 January 2007)

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Paraphrased Requirement	Relevant EA Section
SURFACE WATER AND GROUNDWATER	
Include detailed modeling of potential surface and groundwater impacts, a site water balance, and a detailed description of any proposed creek diversion.	Parts D10 and D11
Include a surface and groundwater contingency strategy as part of the mitigation measures which detail the measures proposed to protect the water supply to landowners in the region and the environment.	Parts D10 and D11
NOISE AND VIBRATION	
Determine construction, operation, traffic and rail noise impacts.	Part D3.7
Assess blasting noise and vibration impacts.	Part D3.7
VISUAL	
Include lighting impacts.	Part D9
AIR QUALITY	
Determine construction and operation related impacts.	Part D2.7
FLORA AND FAUNA	
Determine impacts on critical habitats, threatened species, population, ecological communities, groundwater dependent ecosystems and native vegetation.	Parts D4, D5 and D6
Include a comprehensive offset strategy as part of the mitigation measures for the project to ensure that there is no net loss of flora and fauna values in the area in the medium to long term.	Parts D4, D5 and D6
HERITAGE	
Include conservation outcomes for significant heritage items and areas in the mine affectation zone (for both Aboriginal and non-Aboriginal heritage).	Parts D7 and D13
CUMULATIVE IMPACTS	
Assess potential cumulative impacts (particularly on noise, air quality, flora and fauna, surface water and groundwater) of the project together with other approved and existing mines in the region.	Various Part D
TRAFFIC AND TRANSPORT	
Assess impacts on traffic and transport.	Part D12
SOCIO-ECONOMIC	
Assess socio-economic impacts.	Part D14
GREENHOUSE GASES	
Greenhouse gas assessment, including a quantitative analysis of greenhouse gas emissions associated with the combustion of product coal, and a qualitative assessment of the impacts of these emissions on the environment.	Part D2



Table A2-2
Requirements from Other Government Agencies from Relevant EA Sections

Page 1 of 11

Government Authority	Paraphrased Requirement	Relevant EA Section
GENERAL		
Department of Primary Industries (Undated)	Prepare Resource and Reserve estimates in accordance with the "JORC Guidelines for the Estimation and Reporting of Australian Black Coal Resources and Reserves".	Part B2.3
	Submit a detailed Resource/Reserve Statement in digital format prior to completion of the EA. The Statement should include: - the exploration and geology of the project area, - coal seam geology and coal quality, - estimated in situ coal resources for all seams, - recoverable and marketable Coal Reserves, and - limits of proposed mining and parameters used to define these limits.	Separate Report Submitted to DPI-MR
	The EA should include a brief summary of the information contained in the Resource/Reserve Statement.	Part B2.3
Department of Environment and Conservation (22/12/04)	The size and type of the operation.	Part B
	The anticipated level of performance in meeting required environmental standards and cleaner production principles.	Parts B and D
	The staging and timing of the proposal.	Part B
	The proposal's relationship to any other industry or facility.	Parts B and D
	The location of the proposed facility and details of the surrounding environment.	Parts B and D
	The proposed layout of the site.	Figure B3
	Appropriate land use zoning.	Part A1
	Ownership details of any residence and/or land likely to be affected by the proposed facility.	Part D1.4
	Maps/diagrams showing the location of residences and properties likely to be affected and other industrial developments, conservation areas, wetlands, etc in the locality that may be affected by the facility.	Figure D5
	All equipment proposed for use at the site.	Table B7
	Chemicals, including fuel, used on the site and proposed methods for their transportation, storage, use and emergency management;	Part B11
	Waste generation and disposal.	Part B11
Department of Environment and Conservation (22/12/04)	The EA must determine whether contaminated soils are likely to be disturbed during the proposed works.	Part D8
Singleton Council (3 December 2004)	Sufficient detail on proposed buildings and facilities needs to be included in the EA.	Part B10
	Contributions for community facilities / community enhancement that will be applicable to the application.	Part D14



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

Page 2 of 11

Government Authority	Paraphrased Requirement	Relevant EA Section
CONSULTATION		
Department of Primary Industries (Undated)	Consult with all neighbours within the near vicinity of the mine and the proposed haul road.	Part C2
	Conduct public information meetings within the Communities of Glennies Creek, with a possible open day being held at the project site.	Part C2.1
	Provide regular updates to the community via newsletters or letter-drops.	Part C2.1
	Form a formal Community Consultative Committee.	Part C2.1.5
LAND TENURE		
Department of Primary Industries (Undated)	The proponent will be required to part transfer the subject portion of CL 357 and have it included within the Glennies Creek Colliery Holding. A mining lease will also be required from the surface to 20 metres depth above CL 382 to give title from the surface down.	Part B1.4
STATUTORY REQUIREMENTS AND PLANNING		
Department of Natural Resources (10/04/06)	Address the principles, objects and targets of both the <i>Water Act 1912</i> and <i>Water Management Act 2000</i> .	Parts D10 and D11
	Address the relevant NSW State Government natural resource management policies, including: • NSW State Rivers and Estuaries Policy • NSW Wetlands Management Policy • NSW Groundwater Policy Framework Document - General • NSW Groundwater Quantity Management Policy • NSW Groundwater Quality Protection Policy • NSW Groundwater Dependent Ecosystem Policy	Parts D10 and D11
	Consider : • Land and Water Resources Research and Development Corporation. 2000 <i>Rehabilitation Manual for Australian Streams</i>. • Healthy Rivers Commission. May 2002 <i>Independent Inquiry into the Hunter River System</i>.	Part D10
	Provide details of current development approvals and water licences for the Glennies Creek Coal operations.	Parts A5.2.4 and A5.3.4
Department of Primary Industries (Undated)	Comply with requirements of the <i>Coal Mine Health and Safety Act 2002</i> and the <i>Coal Mines Regulation Act, 1982</i> .	Part B13
Department of Environment and Conservation	Address requirements of Section 45 of the <i>Protection of the Environment Operations Act 1997</i> (POEO Act).	Part D
Roads and Traffic Authority (13 December 2004)	PlanningNSW EA Guidelines: • <i>Extractive Industries – Mining (Transportation Issues)</i>.	Part D12
	Roads and Traffic Authority's <i>Guide to Traffic Generating Developments</i> .	Part D12
	EPA's <i>Environmental Criteria for Road Traffic Noise</i> .	Part D3



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
STATUTORY REQUIREMENTS AND PLANNING (CONT'D)		
Singleton Council (3 December 2004)	Blasting within 500m of a public road will be subject to an agreement with Council.	Part D12
	Determine whether an approval under the Roads Act will be required.	Part D12
	There are outstanding matters regarding disabled access to existing mine premises which need to be addressed.	Not Relevant
Note 1: Matters relating to existing facilities or operations are beyond the scope of this document and application		
SAFETY ISSUES		
Department of Primary Industries (Undated)	A commitment to compliance with the <i>Coal Mine Health and Safety Act 2002</i> and <i>Coal Mines Regulation Act 1982</i> .	Part B13
	Nomination of a person (or persons) as Operator and Manager as required by the <i>Coal Mine Health and Safety Act 2002</i> and <i>Coal Mines Regulation Act 1982</i> .	Part B13
	Details of the procedures the proponent intends to adopt in addressing any safety issues identified by an Inspector or Mine Safety Officer or an authorised Government Official as specified in the <i>Coal Mine Health and Safety Act, 2002</i> .	Part B13
REHABILITATION AND FINAL LAND USE		
Department of Primary Industries (Undated)	Fully detail the conceptual rehabilitated final landform of the void and emplacements.	Part B15
	Maximising efficient placement of the emplacement and the use of overburden to cap the tailings dam at Camberwell.	Part B7
	Design of the final void and waste emplacements to achieve revegetation, slope stability, erosion and sediment control. Design of the void and mining method to minimise the area left as open void in the Glennies Creek and Camberwell area.	Part B15.5
	Conceptual long-term water management of the void including quantity and quality is essential. Supply geotechnical information on possible barriers and groundwater information.	Parts D10 and D11
	The Department's preference is for final landforms to have maximum slopes of 1:6 (V:H), although the Proponent proposes steeper slopes at a maximum of 1:3. This is acceptable provided the Proponent makes provision for soil conservation, slope stability and erosion controls on the steeper rehabilitated slopes of 1:3.	Part B15.6
Department of Primary Industries (Agriculture) (9 December 2004)	Objectives for rehabilitation and sustainable post mining use land use.	Parts B15 and D8.3
	Indicative final landform, land capability, voids, high walls, drainage and vegetation patterns, including the total area to be disturbed, predicted farming and conservation areas and the size of all final voids within the combined lease.	Part B15
	Proposed rehabilitation strategies to effectively re-establish and maintain biodiversity pastures and water storages, including improvements to existing 'rehabilitated' areas within acquired lands.	Part B15



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
REHABILITATION AND FINAL LAND USE (CONT'D)		
Department of Primary Industries (Agriculture) (9 December 2004)	Proposals to integrate landforms, vegetation and water management and adjoining mines including potential regional / local conservation corridors.	Part B15
	Performance indicators and monitoring for rehabilitation and land management and how the proposed rehabilitation practices, landform, vegetation patterns and water storages would contribute to the realisation of rehabilitation and land use goals.	Part B15
SURROUNDING LAND USE		
Department of Primary Industries (Agriculture) (9 December 2004)	Clearly identify all potential impacts on current agricultural enterprises in the locality and how any adverse impacts would be mitigated.	Part D
	Land use and agricultural operations within the surrounding area.	Part D1.4
	Natural resources of significance for agricultural development, in particular the alluvial lands and water resources of Glennies Creek and its tributaries.	Part D10
Singleton Council (3 December 2004)	Justify and ensure that the integrity of the road will not be affected by the mining activities.	Part D12
	Impacts on the amenity of residents need to be fully assessed and suitable mitigation measures established.	Parts D2, D3, D9 and D12
OPERATIONAL INFORMATION AND MINE PLANNING		
Department of Environment and Conservation (22/12/04)	Identify any fuel or chemical storage areas and describe the measures proposed to minimise the potential for leakage or the migration of pollutants into the soil/waters or from the site.	Part B11.3
Department of Primary Industries (Mineral Resources) (Undated)	Mining leases have as a standard condition the requirement to lodge a Mining Operations Plan (MOP) and Annual Environmental Management Report (AEMR).	Part A6
WASTE MANAGEMENT		
Department of Environment and Conservation (22/12/04)	An assessment of the process, comparing it with other alternate waste management strategies for the wastes to be received at the facility.	Not Relevant
	Comprehensive details of the quantity and proposed sources of wastes.	Part B7
	Nature of the wastes.	Parts B7 and B8
	The composition and classification of the wastes arriving at the proposed facility.	Not Relevant
	Detail the transportation, assessment and handling of waste arriving at or generated at the site.	Parts B7 and B8
	The measures to be used to store, treat and dispose of this material.	Parts B7 and B8
	Classification and investigation of recycling/disposal options for residue waste.	Parts B7 and B8
	Full details and classification of wastes generated from the process and their disposal options.	Parts B7 and B8
	Characterisation of the composition of the finished products and certification that the final product will meet appropriate local and international standards for those products.	Parts A4 and B2.4



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
WASTE MANAGEMENT (CONT'D)		
Department of Primary Industries (Undated)	Analyse overburden and coal for: • Acid generation potential – overburden • Salinity potential – overburden • Spontaneous combustion potential - coal	Parts B2.5 and B7.1
SURFACE WATER AND GROUNDWATER		
Department of Natural Resources (10/04/06)	Provide details of any proposed groundwater extraction, including purposes, location and construction details of all proposed bores and expected annual extraction volumes.	Part D11.3
	Provide details of any proposed works likely to intercept groundwater.	Parts B4 and D11
	Describe different aquifer systems including their extent and inter-relationships (surface water bodies and dependent ecosystems).	Part D11.2
	Describe flow directions and rates and the physical and chemical characteristics of the aquifers.	Part D11.2.7
	Detail predicted impacts of any final landform on the groundwater regime.	Parts D10.3 and D11.6
	Detail the existing groundwater users within the area of the proposal and any potential impacts on these users including the environment.	Part D11.2.6
	Detail proposed method of disposal of any tailings or waste water.	Part D10.2
	Detail of the results of any models or predictive tools used, including inputs, limitations for models used and any sensitivity analyses conducted.	Part D10.4 and D11.4
	Interaction of this proposal with other existing and proposed mining operations in the catchment.	Part D11.5
	Provide a site-specific water balance including: • sources of water supply • location and design specifications for all clean water diversion • details of internal drainage of the contaminated water circuit. • details in regard to any mine water storage proposed for the development • discussion of proposed monitoring programs and reporting procedures. • Description of integrated water management system, including an assessment of the water management system under a range of conditions.	Parts D10.2, D10.3, D10.4, D10.5 and D11.6
Department of Natural Resources (10/05/06)	The Environmental Assessment must address the following. • Details of existing groundwater interception and management on site. • Details of any anticipated increase in groundwater interception. • Details of the location of all existing and proposed groundwater monitoring bores. • Details of any additional dewatering and water management facilities.	Part D11
Department of Environment and Conservation (22/12/04)	Demonstrate compliance with <i>Protection of the Environment Operations Act (1997)</i> , including the protection of water quality.	Parts D10.2 and D10.4
	Document and justify the methodology, data and assumptions used to design any pollution control works and assess the potential impact of the proposal on water quality.	Parts D10.3, D10.4, D11.4 and D11.5



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
SURFACE WATER AND GROUNDWATER (CONT'D)		
Department of Environment and Conservation (22/12/04)	The EA must include a water management plan and site water balance incorporating the following principles: • Maximum on-site reuse of wastewater; • Prevention of wet weather overflows of contaminated stormwater; • Segregation of contaminated water from non-contaminated water; • Spillage controls and bunding; • Sealing and effectively bunding material storage areas and active areas of the plant; • Effective management of stormwater; • Maintenance of sediment and erosion control structures; • Sealing, kerbing and guttering of trafficable areas; and • Provision of truck washing facilities.	Parts B10 and D10.2
	The EA should also describe the sewage treatment and effluent management processes used on site.	Part B11
	If a wastewater discharge is proposed it must be justified and it must be demonstrated that controlled discharges can be managed in compliance with the requirements of the Hunter River Salinity Trading Scheme.	Not Relevant
	If a discharge under the Hunter River Salinity Trading Scheme is found to be necessary and the discharge would be via a tributary of the Hunter River, the EA must include a tributary impact assessment that addresses the following: • Impacts on downstream landholders: - A list of downstream landholder/tenants including a record of permanent or seasonal activities; - A description and list of all crossings, culverts and other in-stream structures. • Physical and biological impacts: - existing flow and stream characteristics, including current bank and bed profiles, potential flow volumes at key points of inflection within the stream course, stability of stream banks and beds and an assessment of soil types. - Assessment of likely impacts of proposed discharge including impacts on flow characteristics, potential for erosion of banks, bed or damage to riparian vegetation. • Proposed measures to: - minimise the impacts of discharge on downstream landholders, including a discharge notification procedure; - reduce potential erosion hazards at vulnerable points in the stream banks, protect and maintain riparian vegetation and bank stability, and provisions for energy dissipation of discharge waters where necessary.	Not Relevant
	In cases where more than one mine discharges to a tributary, the EA must also address the collective impacts of discharge to that tributary.	Not Relevant



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
SURFACE WATER AND GROUNDWATER (CONT'D)		
Department of Primary Industries (Agriculture) (9 December 2004)	Possible changes to surface and groundwater flows and quality that could affect other water users and the environment.	Parts D10.4 and D11.5
	Saline and wastewater management, and the changes the development will have on saline water generation, including controls to prevent the saline water storage structure 'Possum Skin Dam' from discharging water into Glennies Creek because of a run off event.	Parts D10.3, D10.4 and D10.5
SOILS		
Department of Primary Industries	The Proponent should apply 'Best Practice' for soil handling and management. The Proponent needs to complete extensive soil profiling prior to stripping of vegetation. Selective stripping of the topsoil and subsoil should be utilised to efficiently secure and maintain the current available resources. The utilisation of the cleared vegetation in the rehabilitation program should also be reviewed in the EA.	Part D8
NOISE AND VIBRATION		
Department of Primary Industries (Agriculture) (9 December 2004)	Predicted cumulative environmental and socio-economic impacts on agricultural activities and potential.	Parts D3.7 and D14
Environment and Conservation (22/12/04)	The EA must include a comprehensive noise assessment of the existing environment, potential impacts and proposed noise amelioration measures.	Parts D3.2, D3.5 and D3.7
	Determine the existing background (L_{A90}) and ambient ($L_{Aeq(15\text{ min})}$) noise levels in accordance with the NSW Environmental Criteria for Road Traffic Noise, where road traffic noise impacts may occur.	Part D3.4.4
	Identify any noise sensitive locations, such as residential properties, schools, churches, and hospitals.	Parts D3.2 and Figure D5
	For each identified potentially affected receiver, this should include: - determination of the intrusive criterion for each identified potentially affected receiver, - selection and justification of the appropriate amenity category for each identified potentially affected receiver, - determination of the amenity criterion for each receiver, - determination of the appropriate sleep disturbance limit.	Parts D3.2 and D3.4
	The noise and vibration levels likely to be received at the most sensitive locations should be determined. Potential impacts should be determined for any identified significant adverse meteorological conditions.	Part D3.7
	Sound power levels measured or estimated for all plant and equipment should be clearly stated and justified. The expected noise level and noise character (eg: tonality, impulsiveness, vibration, etc) likely to be generated from noise sources during the following phases should be determined: - site establishment - construction - operational phases - transport including traffic noise generated by the proposal - other services.	Part D3.5.1
	The Noise Assessment should identify the transport route(s) to be used, the hours of operation and quantify the noise impacts.	Parts B9 and D3.7



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
AIR QUALITY		
Department of Primary Industries (Undated)	The EA should detail the management plan for dust suppression.	Part D2.5
Department of Environment and Conservation (22/12/04)	The EA must include a detailed Air Quality Impact Assessment (AQIA). The AQIA must describe in detail all possible sources of air pollution and activities/processes with the potential to cause air pollutants including fugitive dust and odour emissions beyond the boundary of the development site.	Parts D2.3 and D2.7
	Demonstrate that the facility will operate within DEC's objectives to minimise adverse effects on local residents, sensitive land users and air quality.	Part D2.7
	A description of existing air quality, using existing information and site representative ambient monitoring data including: - dust deposition; - total suspended particulates; and - PM₁₀ particulate matter.	Part D2.2
	Identification and location of all fixed and mobile sources of dust/air emissions from the development including rehabilitation. The location of all emission sources should be clearly marked on a plan for key years of the quarry development. Identify all pollutants of concern and estimate emissions by quantity (and size for particles), source(s) and discharge point(s).	Parts D2.3 and D2.6
	Details of the project including: - the quantity and physio-chemical characteristics of materials to be handled, stored or transported; - an outline of the procedures for material handling, storage and transport; - the management of activities and areas with potential for impacts on air quality.	Parts B and D2
	A description of the topography and surrounding land uses.	Parts D1.2 and D1.4
	Details of the exact locations of dwellings, schools and hospitals etc.	Part D1.4.1 and Figure D5
	Estimate the resulting ground level concentrations of all pollutants. Use an appropriate dispersion model to predict ambient TSP and PM ₁₀ dust concentrations and dust deposition levels.	Part D2.7
	A detailed description of the methodology used to assess the air quality impacts of the development. The use of a particular dispersion model and model parameters used should be justified and discussed. The dispersion model input/output files should be included.	Part D2.6
	Air quality impact predictions should include plans showing projected incremental levels of 24-hour average PM ₁₀ concentrations, annual average dust deposition rates and annual average total suspended particulate concentrations throughout the life of the operation.	Part D2.7 and Figure D9
	An assessment of cumulative air quality impacts and a description of the methodology used.	Parts D2.6 and D2.7
	An assessment of the potential impacts on air quality other than by dust, for example nitrogen oxide emissions from diesel equipment.	Part D2.1



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
AIR QUALITY (CONT'D)		
Environment and Conservation (22/12/04)	Describe the effects and significance of pollutant concentration on the environment, human health, amenity and regional ambient air quality standards or goals.	Part D2.1
	Describe the contribution (if any) that the development will make to regional and global pollution, particularly in sensitive locations.	Part D2.7
	An assessment of the impacts on air quality of dust and any other pollutants generated during construction works. In this context, particular attention should be given to: - the nature, extent and duration of dust generating activities; - consideration of the location of dust sources.	Part D2
	Outline specifications of pollution control equipment (including manufacturer's performance guarantees where available) and management protocols for both point and fugitive emissions. Where possible, this should include cleaner production processes.	Part D2.5
	Include details of an air quality monitoring program to determine effectiveness of mitigation and to verify predictions, including provision for investigations in response to complaints.	Part D2.8
	Control measures to be implemented to minimize dust generation during construction activities, haulage roads and product stockpiles.	Part D2.5
FLORA AND FAUNA		
Department of Primary Industries (Undated)	The proposal area contains a significant area of native vegetation. This area links to native vegetation corridors that Camberwell mine has earmarked as its contribution to the Synoptic Plan. Revegetation methods for this area should be detailed in the EA and offsets should be considered.	Parts D4.6, D5.4 and D6
Department of Environment and Conservation (22/12/04)	Provide a detailed assessment of vegetation communities including: - their conservation significance at both a local and regional scale; - the habitat values of the vegetation; - the extent and impact of clearing, earthworks and other disturbances; and - the extent and nature of revegetation, rehabilitation and/or landscaping proposed.	Part D5.3
	The description of vegetation communities should wherever possible be correlated with known classifications, such as those used in the Lower Hunter Central Coast Regional Environmental Management Strategy (REMS) (NPWS 2000).	Part D5.3
	Provide a detailed assessment of threatened flora species and endangered ecological communities and their conservation significance including: - those listed as ROTAP (Rare or Threatened Australian Plants); - listings under the Commonwealth Environment Protection and <i>Biodiversity Conservation Act</i>; - listings under the <i>NSW Threatened Species Conservation Act</i> (including preliminary listings and/or determinations); and - regionally significant flora.	Part D5.3



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
FLORA AND FAUNA (CONT'D)		
Department of Environment and Conservation (22/12/04)	Provide a plan showing the distribution of any threatened or ROTAP species and vegetation communities on the subject site.	Parts D4.3 and D5.3
	Where threatened species, populations or their habitats or communities exist the effect of the development should be determined pursuant to Section 5A of the <i>Environmental Planning and Assessment Act 1979</i> .	Parts D4.6 and D5.5
	Describe the measures proposed to mitigate and/or ameliorate the impact of the development on the plant communities, threatened and ROTAP species.	Part D5.4
	Provide a detailed assessment of threatened fauna species and their conservation significance including: - listings under the <i>Commonwealth Environment Protection and Biodiversity Conservation Act</i>; - listings under the <i>NSW Threatened Species Conservation Act</i> (including preliminary listings and/or determinations); - those recorded on the site or in the vicinity of the site; - those with the potential to occur; - an assessment of how identified species utilise the habitat on or in the vicinity of the development site; - consideration of listed Key Threatening Processes including clearing of native vegetation and bushrock removal.	Parts D4.2 and D4.3
	Undertake a fauna survey to identify the distribution and abundance of fauna species known that are likely to use the subject site. Include a description of available fauna habitats and assessment of conservation status of each.	Part D4
	Provide a plan showing results of fauna study at a project scale.	Figures D16 to D19
	Describe the measures proposed to mitigate and/or ameliorate the impact of the development on fauna.	Part D4.5
	Flora and fauna surveys are to be undertaken by suitably qualified persons and qualifications and experience provided. Dates and times, site locations, survey design and methodology, analysis techniques and weather conditions at the time of the assessments and surveys must be provided.	Parts D4.1 and D4.2
	Conclusions drawn in surveys and assessments should be substantiated by evidence.	Parts D4.1 and D4.21
TRAFFIC AND TRANSPORT		
Roads and Traffic Authority (13 December 2004)	Maintain an efficient and safe road system (includes <i>SEPP 11</i> consideration).	Part D12
	Facilitate the integration of land use and transport (includes draft <i>SEPP 66</i> consideration).	Part D12.2
	Maintain the integrity and security of the road network, property and assets.	Part D12
	The RTA preference is to minimise transport on public roads, particularly through urban areas. A thorough investigation of alternative transport modes and route is required, as there may be more strategic network or local community issues that need to be addressed.	Part D12.2



Table A2-2 (Cont'd)
Requirements from Other Government Agencies from Relevant EA Sections

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Government Authority	Paraphrased Requirement	Relevant EA Section
HERITAGE		
Department of Environment and Conservation (22/12/04)	Provide a detailed assessment of Aboriginal heritage including: - an archaeological assessment in accordance with the NPWS IDA Guidelines for Aboriginal Cultural Heritage (Attachment 2); - an Aboriginal cultural heritage assessment in accordance with the NPWS IDA Guidelines; - details (as indicated in the IDA Guidelines) of inclusive consultation with the local Aboriginal community;	Part D7
	If sites or areas of Aboriginal heritage significance are identified through the assessment process, consideration will need to be given to appropriate conservation options.	Part D7.4
	Conduct a search of the Aboriginal Heritage Information Management System.	Part D7.1.1
	An assessment should be undertaken by an appropriately qualified person in consultation with the local Aboriginal community.	Part D7
	Detail on a plan Aboriginal objects and places of significance.	Part D7.3 and Figure D21
	Prepare a contingency plan that details the measures to be taken in the event that Aboriginal objects are discovered.	D7.4
	Provide details of extensive consultation with the local Aboriginal community as per the DEC <i>Interim Community Consultation Requirements for Applicants</i> .	Part D7.1.2
ENVIRONMENTAL MONITORING		
Department of Primary Industries (Undated)	Conduct an impact assessment on the effect of blasting on the surrounding community.	Part D3.7.3
	Monitor the effects of the operations lighting on the surrounding residences at night time.	Part D9.2
Department of Environment and Conservation (22/12/04)	A detailed assessment of any noise, air quality, water quality or waste monitoring required during the construction phase and on-going operation of the facility to ensure that the development achieves a satisfactory level of environmental performance. The evaluation should include a detailed description of the monitoring locations, sample analysis methods and the level of reporting proposed.	Parts D2, D3, D10 and D11
Department of Primary Industries (Agriculture) (9 December 2004)	Performance indicators and monitoring for rehabilitation and land management and how the proposed rehabilitation practices, landform, vegetation patterns and water storages would contribute to the realisation of rehabilitation and land use goals.	Parts B15, D4 and D5



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