## DIRECTOR-GENERAL'S ENVIRONMENTAL ASSESSMENT REQUIREMENTS

## Abel Upgrade Modification Environmental Assessment

# ATTACHMENT I







Major Development AssessmentMining & Industry ProjectsContact:Paul FreemanPhone:02 9228 6587Fax:02 9228 6466Email:paul.freeman@planning.nsw.gov.auRef:S07/00659

Mr Doug Gordon General Manager Donaldson Coal PO Box 2275 GREENHILLS NSW 2323

Dear Mr Gordon

#### Abel Coal Project Section 75W Modification (05\_0136 MOD 3) Director-General's Requirements

The Department has received your application to modify the Abel Coal Project (05\_0136 MOD 3) under section 75W of the *Environmental Planning and Assessment Act* 1979.

I have attached a copy of the Director General's environmental assessment requirements (DGRs) for the preparation of an Environmental Assessment (EA) for the proposed modification.

Please note that the Department may alter these requirements at any time. The Department will review the EA carefully before putting it on public exhibition, and will require you to submit an amended EA if it does not adequately address the DGRs.

These requirements have been prepared based on the information you have provided to date, and in consultation with the relevant government agencies and affected Councils. Their comments, which you should consider and address appropriately in preparing the EA, are also attached (see Attachment 2). Your proposal may require separate approval under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The Department encourages you to confirm whether such an approval will be required as soon as possible. If an EPBC Act approval is required, I would appreciate it if you would advise the Department accordingly, as the Commonwealth approval process may be integrated into the NSW approval process, and supplementary DGRs may need to be issued.

I would appreciate it if you would contact the Department at least two weeks before you propose to submit the EA. This will enable the Department to:

- confirm the applicable fee (see Division 1A, Part 15 of the *Environmental Planning and Assessment Regulation 2000*); and
- determine the number of copies (hard-copy and CD-ROM) of the EA required for review.

If you have any enquiries about these requirements, please contact Paul Freeman.

Yours sincerely

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Howard Reed  $\mathcal{L}(\cdot \mathcal{L} \cdot \mathcal{V})$ A/Director Mining & Industry Projects As delegate for the Director-General

### **Director-General's Requirements**

Section 75F	of the Environmental	Planning and	Assessment Act 1979
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Application number	05_0136 MOD 3
Modification Description	<ul> <li>Modifying the Abel Coal Project, which includes:</li> <li>changing the approved mine layout to introduce longwall and shortwall mining methods;</li> <li>extending the life of the mine to 2029;</li> <li>increasing run-of-mine (ROM) coal production to 6.1 million tonnes per annum (Mtpa);</li> <li>increasing the throughput of ROM coal at the Bloomfield Coal Handling and Preparation Plant (CHPP) to 8.9 Mtpa;</li> <li>increasing the amount of ROM coal delivered to the CHPP from the Tasman Underground Mine;</li> <li>increasing rail transport of product coal to the Port of Newcastle;</li> <li>increasing the emplacement of reject material at Bloomfield Colliery; and</li> <li>upgrading the CHPP, augmenting the integrated water management system for the Abel, Donaldson and Bloomfield mines, and constructing ancillary mine infrastructure.</li> </ul>
Location	John Renshaw Drive, Buttai.
Proponent	Donaldson Coal Pty Limited.
Date of Issue 2	February 2012
General Requirements	<ul> <li>The Environmental Assessment (EA) for the proposed modification must include a:</li> <li>detailed description of the proposed modification, including: <ul> <li>need for the proposal;</li> <li>justification for the proposed mine plan, including efficiency of resource recovery, mine safety, and environmental protection;</li> <li>likely staging of the proposal - including construction, operational stage/s and rehabilitation;</li> <li>likely interactions between the proposal and existing, approved and proposed mining operations in the vicinity of the site;</li> <li>plans of any proposed building works;</li> </ul> </li> <li>consideration of all relevant environmental planning instruments, including Part 3 of the <i>Mining, Petroleum Production and Extractive Industry State Environmental Planning Policy 2007</i>, and identification and justification of any inconsistencies with these instruments;</li> <li>risk assessment of the potential environmental impacts of the development, identifying the key issues for further assessment;</li> <li>detailed assessment of the potential impacts of all stages of the proposal, including any cumulative impacts, taking into consideration relevant guidelines, policies, plans and statutes; and</li> <li>a description of the existing environment, using sufficient baseline data;</li> <li>an assessment of the potential impacts of all stages of the proposal, including any cumulative impacts, taking into consideration relevant guidelines, policies, plans and statutes; and</li> <li>a description of the measures that would be implemented to avoid, minimise and if necessary, offset the potential impacts of the proposal, including proposals for adaptive management and/or contingency plans to manage any significant risks to the environment; and</li> </ul>

Key Issues	Subsidence – including a detailed quantitative and qualitative
	assessment of the potential conventional and non-conventional
	subsidence impacts of the proposal that includes:
	- the identification of the natural and built features (both surface an
	sub-surface) within the area that could be affected by subsidence, an
	an assessment of the respective values of these features using an
	relevant statutory or policy documents;
	- accurate predictions of the potential subsidence effects and impacts of
	the proposal, including a robust sensitivity analysis of thes
	predictions;
	these effects and impacts on both the natural and built environmen
	paying particular attention to those features that are considered t
	have significant economic, social, cultural or environmental values
	and
	- a detailed description of the measures that would be implemented t
	avoid, minimise, remediate and/or offset subsidence impacts an
	environmental consequences (including adaptive management an
	proposed performance measures);
	<ul> <li>Land Resources – including a detailed assessment of the potential</li> </ul>
	-
	impacts on:
	- soils and land capability (including land contamination);
	- landforms and topography, including cliffs, rock formations, stee
	slopes, etc; and
	- land use, including agricultural, industrial, conservation an
	recreational uses;
	Water Resources – including:
	- detailed assessment of potential impacts on the quality and quantity
	existing surface and ground water resources, including:
	<ul> <li>detailed modelling of potential groundwater impacts;</li> </ul>
	<ul> <li>impacts on affected licensed water users and basic landholde</li> </ul>
interest of any interest of	rights; and
	<ul> <li>impacts on riparian, ecological, geo-morphological ar</li> </ul>
	hydrological values of watercourses, including environment
	flows;
	- a detailed site water balance, including a description of site water
	demands, water disposal methods (inclusive of volume and frequence
	of any water discharges), water supply infrastructure and water
	storage structures;
	- identification of any licensing requirements or other approvals und
to consider stores	the Water Act 1912 and/or Water Management Act 2000;
	- demonstration that water for the construction and operation of the
	proposed modification can be obtained from an appropriate
	authorised and reliable supply in accordance with the operating rule
	of any relevant Water Sharing Plan (WSP);
	- a description of the measures proposed to ensure the developme
	can operate in accordance with the requirements of any relevant WS
	or water source embargo;
	<ul> <li>a detailed description of the proposed water management syste</li> </ul>
	(including sewerage), water monitoring program and measures
	mitigate surface and groundwater impacts;
	Biodiversity – including:
	- measures taken to avoid, reduce or mitigate impacts on biodiversity;
	<ul> <li>accurate estimates of proposed vegetation clearing;</li> </ul>
	<ul> <li>a detailed assessment of potential impacts of the proposal on any:</li> </ul>
	<ul> <li>terrestrial or aquatic threatened species or populations and their</li> </ul>
A CONTRACTOR OF A CONTRACTOR A CO	habitats, endangered ecological communities and groundwater
	dependent ecosystems; and
terin I territori	<ul> <li>regionally significant remnant vegetation, or vegetation corridors</li> </ul>

	to long term;
and an an an an	Heritage – including:
	- an Aboriginal cultural heritage assessment (including both cultural an
a second second second second	archaeological significance) which must:
a second second second because of	o demonstrate effective consultation with Aboriginal communities
a second second second by	determining and assessing impacts, and developing and selectin
	mitigation options and measures;
Control and should be been	o outline any proposed impact mitigation and management
and the second second	measures (including an evaluation of the effectiveness an
	reliability of the measures); and
	- a Historic heritage assessment (including archaeology) which must:
and the second se	<ul> <li>include a statement of heritage impact (including significance)</li> </ul>
	assessment) for any State significant or locally significant histor
	heritage items; and,
	<ul> <li>outline any proposed mitigation and management measure</li> </ul>
	(including an evaluation of the effectiveness and reliability of the
	measures);
	Air Quality – including a quantitative assessment of potential:
	- construction and operational impacts, with a particular focus on dual
	emissions including PM <sub>2.5</sub> and PM <sub>10</sub> emissions and dust generation
	from coal transport;
	- reasonable and feasible mitigation measures to minimise du
	emissions, including evidence that there are no such measure
	available other than those proposed; and
	<ul> <li>monitoring and management measures, in particular real-time a quality manitoring.</li> </ul>
	quality monitoring;
	Greenhouse Gases – including:
and the second sec	- a quantitative assessment of potential Scope 1, 2 and 3 greenhous
and the part of the	gas emissions;
an - 0	- a qualitative assessment of the potential impacts of these emission
damping danies your work	on the environment; and
	- an assessment of reasonable and feasible measures to minimis
and the second se	greenhouse gas emissions and ensure energy efficiency;
second of the second second	Noise – including a quantitative assessment of potential:
	<ul> <li>construction, operational and off-site transport noise impacts;</li> </ul>
en ma la milanza p	- reasonable and feasible mitigation measures, including evidence the
and the second second second second	there are no such measures available other than those proposed; and
the first sectors and a sector	- monitoring and management measures, in particular real-time ar
	attended noise monitoring;
the state of the second se	Traffic & Transport – including:
	- a detailed assessment of the proposal on the capacity, efficiency and
the second second second	safety of the road and rail networks; and
of the second	- a description of the measures that would be implemented to mainta
o principal de la compañía de las	and/or improve the capacity, efficiency and safety of the road and ra
	networks over the life of the project;
and the second second	• Visual – including:
	- a detailed assessment of the:
	o changing landforms on site during the various stages of the
the first state of a	proposed modification;
the second s	o potential visual impacts of the proposal on private landowners
	the surrounding area as well as from key vantage points in the
	public domain; and
second and the subscript of	- a detailed description of the measures that would be implemented
	minimise the visual impacts of the project;
and the second se	• Waste – including:
	<ul> <li>accurate estimates of the quantity and nature of the potential was</li> </ul>
	streams of the proposal, including tailings and coarse reject;
	- a tailings and coarse reject disposal strategy; and
	- a description of measures that would be implemented to minimis
	production of other waste, and ensure that that waste is appropriate
	managed;
	manaded

	<ul> <li>Hazards – paying particular attention to public safety, including bushfires;</li> <li>Social &amp; Economic – including an assessment of the:         <ul> <li>potential direct and indirect economic benefits of the proposal for local and regional communities and the State;</li> <li>potential impacts on local and regional communities, including:                 <ul></ul></li></ul></li></ul>
References	The environmental assessment of the key issues listed above must take into account relevant guidelines, policies, and plans. While not exhaustive, the following attachment contains a list of guidelines, policies and plans that may be relevant to the environmental assessment of this modification.
Consultation	<ul> <li>During the preparation of the EA, you should 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 EA.</li> <li>In particular you must consult with the: <ul> <li>Office of Environment and Heritage (including the Heritage Branch and Environment Protection Authority);</li> <li>Division of Resources and Energy, within the Department of Trade and Investment, Regional Infrastructure and Services;</li> <li>Department of Primary Industries (including the NSW Office of Water, Agriculture and Fisheries sections, Catchments and Lands (Crown Lands Division));</li> <li>NSW Health;</li> <li>Transport for NSW (including the Centre for Transport Planning and Roads and Maritime Services);</li> <li>Australian Rail Track Corporation, and downstream coal chain operators including Railcorp and Newcastle Ports Corporation;</li> <li>Mine Subsidence Board;</li> <li>Hunter Central Rivers Catchment Management Authority;</li> <li>Cessnock City Council;</li> <li>Newcastle City Council;</li> <li>Maitland City Council; and</li> <li>relevant Aboriginal groups.</li> </ul> </li> </ul>
	<ul> <li>The EA must:</li> <li>describe the consultation process used and demonstrate that effective consultation has occurred;</li> <li>describe the issues raised by public authorities, service providers, community groups and landowners;</li> </ul>

	<ul> <li>identify where the design of the proposed modification has been amended in response to issues raised; and otherwise demonstrate that issues raised have been appropriately addressed in the assessment.</li> </ul>
Deemed refusal period	60 days

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#### ATTACHMENT 1 Technical and Policy Guidelines

The following guidelines may assist in the preparation of the EA. This list is not exhaustive and not all of these guidelines may be relevant to your proposal. Many of these documents can be found on the following websites:

http://www.planning.nsw.gov.au http://www.bookshop.nsw.gov.au http://www.publications.gov.au

Risk Assessment	
	AS/NZS 4360:2004 Risk Management (Standards Australia)
	HB 203: 203:2006 Environmental Risk Management – Principles & Process (Standards Australia)
Biodiversity	
	Threatened Species Survey and Assessment Guidelines: Field Survey Methods fo Fauna – Amphibians (DECCW 2009)
	Threatened Biodiversity Survey and Assessment: Guidelines for Developments and Activities – Working Draft (DECC 2004)
	BioBanking Assessment Methodology and Credit Calculator Operational Manual (DECCW 2008)
	The Threatened Species Assessment Guideline – The Assessment of Significance (DECC 2007)
	NSW State Groundwater Dependent Ecosystem Policy (DLWC)
	Policy & Guidelines - Aquatic Habitat Management and Fish Conservation (NSW Fisheries)
	State Environmental Planning Policy No. 44 – Koala Habitat Protection
Water Resources	
	National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems - Effluent Management (ARMCANZ/ANZECC)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems - Use of Reclaimed Water (ARMCANZ/ANZECC)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)
	State Water Management Outcomes Plan
	Water Sharing Plan for the Hunter Unregulated and Alluvial Water Sources 2009
Surface Water	NSW Government Water Quality and River Flow Objectives (DECC)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC)
	Managing Urban Stormwater: Soils & Construction (Landcom) and associated Volume 2E: Mines and Quarries.
	Managing Urban Stormwater: Treatment Techniques (DECC)
	Managing Urban Stormwater: Source Control (DECC)
	Floodplain Development Manual (DIPNR)
	Floodplain Risk Management Guideline (DECC)
	A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH)
	Technical Guidelines: Bunding & Spill Management (DECC)
	Environmental Guidelines: Use of Effluent by Irrigation (DECC)
Groundwater	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)
	NSW State Groundwater Policy Framework Document (DLWC, 1997)
	NSW State Groundwater Quality Protection Policy (DLWC, 1998)

	NSW State Groundwater Quantity Management Policy (DLWC, 1998)
	Murray-Darling Basin Groundwater Quality. Sampling Guidelines. Technical Repor No 3 (MDBC)
	Murray-Darling Basin Commission. Groundwater Flow Modelling Guideline (Aquaterra Consulting Pty Ltd)
	Guidelines for the Assessment & Management of Groundwater Contamination (DECC, 2007)
	Any relevant Water Sharing Plan for groundwater and surface water resources
Air Quality	A STATE OF A
	Protection of the Environment Operations (Clean Air) Regulation 2002
	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC)
	Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DEC)
Noise	
	NSW Industrial Noise Policy (DECC)
	Environmental Noise Management - Assessing Vibration: a technical guide (DEC)
	NSW Road Noise Policy (DECCW)
	Interim Guidelines for the Assessment of Noise From Rail Infrastructure Projects (DECC)
Land Resources	
	Agfact AC25: Agricultural Land Classification (NSW Agriculture)
	State Environmental Planning Policy No. 55 – remediation of Land
	Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC)
Traffic & Transport	a terret al la se l'ante a l'Aller and bog
And a long to the long to the	Guide to Traffic Generating Development (RTA)
Heritage	
	Draft Guidelines for Aboriginal Cultural Heritage Assessment and Community
Aboriginal	Consultation (DEC 2005)
	The Burra Charter (The Australia ICOMOS charter for places of cultural significance)
	NSW Heritage Manual (NSW Heritage Office)
Historic	The Burra Charter (The Australia ICOMOS charter for places of cultural
	significance)
Greenhouse Gases	STATISTICS STRUCTURE STATISTICS STATISTICS STATISTICS
	National Greenhouse Accounts Factors (Australian Department of Climate Change (DCC))
	Guidelines for Energy Savings Action Plans (DEUS)
Waste	Waste Classification Guidelines (DECC)
Hazards	
	State Environmental Planning Policy No. 33 – Hazardous and Offensive
	Development
	Hazardous and Offensive Development Application Guidelines - Applying SEPP 33
	Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard
Rehabilitation	Analysis
	Mine Rehabilitation – Leading Practice Sustainable Development Program for the
	Mining Industry (Commonwealth of Australia)
	Mine Closure and Completion – Leading Practice Sustainable Development
	Program for the Mining Industry (Commonwealth of Australia)
o =	Strategic Framework for Mine Closure (ANZMEC-MCA)
Socio-Economic	
	Draft Economic Evaluation in Environmental Impact Assessment (DoP)
	Techniques for Effective Social Impact Assessment: A Practical Guide (Office of Social Policy, NSW Government Social Policy Directorate)