

# Director-General's Requirements

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

<b>Application Number</b>	10_0083
<b>Project</b>	<p>Kiely's Quarry Project, which includes:</p> <ul style="list-style-type: none"> <li>• establishing and operating a hard rock quarry, to extract and process up to 600,000 tonnes (previously 300,000 tonnes) of hard rock material a year for 10 years;</li> <li>• use of drill and blast methods;</li> <li>• constructing and using hard rock material processing facilities;</li> <li>• constructing an access road to the site;</li> <li>• transporting extracted hard rock material off-site; and</li> <li>• rehabilitating the site.</li> </ul>
<b>Location</b>	Adjacent to the Pacific Highway, approximately 3km north of Karuah
<b>Proponent</b>	Wedgerock Pty Ltd
<b>Date of Issue</b>	22 October 2010
<b>General Requirements</b>	<p>The Environmental Assessment of the project must include:</p> <ul style="list-style-type: none"> <li>• an executive summary;</li> <li>• a detailed description of the project, including the: <ul style="list-style-type: none"> <li>– need for the project;</li> <li>– alternatives considered;</li> <li>– likely components and staging of the project; and</li> <li>– plans of any proposed building works;</li> </ul> </li> <li>• a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment;</li> <li>• a detailed assessment of the key issues specified below, and any other significant issues identified in the risk assessment (see above), which includes: <ul style="list-style-type: none"> <li>– a description of the existing environment, using sufficient baseline data;</li> <li>– an assessment of the potential impacts of the project, including any cumulative impacts, taking into consideration any relevant guidelines, policies, plans and statutory provisions (see below);</li> <li>– a description of the measures that would be implemented to avoid, minimise, mitigate, rehabilitate/remediate, monitor and/or offset the potential impacts of the project, including detailed contingency plans for managing any significant risks to the environment;</li> </ul> </li> <li>• a statement of commitments, outlining all the proposed environmental management and monitoring measures;</li> <li>• a conclusion justifying the project on economic, social and environmental grounds, taking into consideration whether the project is consistent with the objects of the <i>Environmental Planning &amp; Assessment Act 1979</i>; and</li> <li>• a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.</li> </ul>
<b>Key Issues</b>	<ul style="list-style-type: none"> <li>• <b>Soil &amp; Water</b> – including: <ul style="list-style-type: none"> <li>– a site water balance;</li> <li>– a detailed description of the proposed water management system;</li> <li>– a detailed assessment (including modelling) of the potential surface water and groundwater impacts; and</li> <li>– contingency strategies, containing measures that would be implemented to avoid, minimise and mitigate any potential impacts.</li> </ul> </li> <li>• <b>Biodiversity</b> – including:</li> </ul>

	<ul style="list-style-type: none"> <li>– a detailed assessment of potential impacts on any terrestrial and aquatic threatened species or populations or their habitats, endangered ecological communities or groundwater dependent ecosystems; and</li> <li>– a detailed description of the measures that would be implemented to avoid or mitigate impacts on biodiversity, including an appropriate biodiversity offset strategy.</li> </ul> <ul style="list-style-type: none"> <li>• <b>Noise and Vibration</b> – including potential construction noise, operational noise and off-site road noise impacts.</li> <li>• <b>Blasting.</b></li> <li>• <b>Air Quality</b> – including emissions associated with construction and operations (including blasting).</li> <li>• <b>Transport</b> – including: <ul style="list-style-type: none"> <li>– accurate predictions of project-related traffic and a detailed assessment of the potential impacts of project-related traffic on the safety and efficiency of road networks; and</li> <li>– a detailed description of the measures that would be implemented to upgrade and/or maintain affected roads and intersections over the life of the project.</li> </ul> </li> <li>• <b>Quarry Closure and Rehabilitation</b> – including: <ul style="list-style-type: none"> <li>– a detailed description of the proposed measures that would be undertaken during quarry closure;</li> <li>– a detailed rehabilitation strategy, including justification for the proposed final land form, taking into consideration the objectives of any relevant strategic land use plans or policies; and</li> <li>– the measures that would be undertaken to ensure sufficient financial resources are available to implement the proposed rehabilitation strategy.</li> </ul> </li> <li>• <b>Cumulative Impacts</b> – including: <ul style="list-style-type: none"> <li>– consideration of the project's potential interaction with approved and proposed neighbouring quarrying operations, with reference to: <ul style="list-style-type: none"> <li>– access arrangements;</li> <li>– traffic management;</li> <li>– blasting schedules;</li> <li>– noise and dust emissions;</li> <li>– water management;</li> <li>– land clearing;</li> <li>– visual and lighting impacts;</li> <li>– rehabilitation activities; and</li> </ul> </li> <li>– details on how the project would be managed in conjunction with these operations.</li> </ul> </li> <li>• <b>Heritage</b> – including Aboriginal and non-Aboriginal heritage.</li> <li>• <b>Visual</b> – including a detailed description of the measures that would be implemented to minimise the project's visual impacts.</li> <li>• <b>Social &amp; Economic</b> – including an assessment of the socio-economic impacts of the project, and the demand on local infrastructure and services.</li> <li>• <b>Waste.</b></li> <li>• <b>Hazard &amp; Risk</b> – including bushfire.</li> </ul>
<b>References</b>	<p>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 some of the guidelines, policies, and plans that may be relevant to the environmental assessment of this project.</p>
<b>Consultation</b>	<p>During the preparation of the Environmental Assessment, you should consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups or affected landowners.</p> <p>In particular you must consult with the:</p> <ul style="list-style-type: none"> <li>• Department of Environment, Climate Change and Water (DECCW);</li> </ul>

	<ul style="list-style-type: none"> <li>• NSW Office of Water (within DECCW);</li> <li>• Department of Industry and Investment;</li> <li>• Department of Transport and Infrastructure;</li> <li>• Great Lakes Council; and</li> <li>• Hunter-Central Rivers Catchment Management Authority.</li> </ul> <p>The consultation process, and the issues raised during this process, must be described in the Environmental Assessment.</p>
<b>Deemed refusal period</b>	90 days

# Policies, Guidelines & Plans

Aspect	Policy /Methodology
<b>Risk</b>	<p>AS/NZS 4360:2004 Risk Management (Standards Australia)</p> <p>HB 203: 203:2006 Environmental Risk Management – Principles &amp; Process (Standards Australia)</p> <p>Risk Management Handbook for the Mining Industry (DPI)</p>
<b>Soil and Water</b>	
<i>Soil</i>	<p>Rural Land Capability Mapping (DLWC)</p> <p>National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)</p> <p>National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)</p> <p>National Water Quality Management Strategy: Guidelines for Sewerage Systems – Effluent Management (ARMCANZ/ANZECC)</p> <p>National Water Quality Management Strategy: Guidelines for Sewerage Systems – Use of Reclaimed Water (ARMCANZ/ANZECC)</p> <p>Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)</p>
<i>Surface Water</i>	<p>State Water Management Outcomes Plan</p> <p>NSW Government Water Quality and River Flow Environmental Objectives (DECC)</p> <p>Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC)</p> <p>The NSW State Rivers and Estuaries Policy (NSW Water Resources Council)</p> <p>Managing Urban Stormwater: Soils &amp; Construction (Landcom)</p> <p>Managing Urban Stormwater Volume 2E: Mines and Quarries (DECC)</p> <p>Managing Urban Stormwater: Treatment Techniques (DECC)</p> <p>Managing Urban Stormwater: Source Control (DECC)</p>
<i>Groundwater</i>	<p>National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)</p> <p>NSW State Groundwater Policy Framework Document (DLWC)</p> <p>NSW State Groundwater Quality Protection Policy (DLWC)</p> <p>The NSW State Groundwater Dependent Ecosystem Policy (DLWC)</p> <p>NSW State Groundwater Quantity Management Policy (DLWC) Draft</p> <p>Draft Guidelines for the Assessment &amp; Management of Groundwater Contamination (DECC)</p>
<b>Biodiversity</b>	<p>Draft Guidelines for Threatened Species Assessment under Part 3A of the <i>Environmental Planning and Assessment Act 1979</i> (DEC)</p> <p>NSW Groundwater Dependent Ecosystem Policy (DLWC)</p> <p>Policy &amp; Guidelines - Aquatic Habitat Management and Fish Conservation (NSW Fisheries)</p> <p>State Environmental Planning Policy No. 44 – Koala Habitat Protection</p>
<b>Noise &amp; Vibration</b>	<p>NSW Industrial Noise Policy (DECC)</p> <p>Environmental Criteria for Road Traffic Noise (NSW EPA)</p> <p>Interim Construction Noise Guideline (DECC)</p> <p>DIN 4150 Part 3 - Structural Vibration: effects of vibration on structures (ISO, 1999)</p> <p>Environmental Noise Management – Assessing Vibration: A Technical Guideline (DEC)</p>

<b>Air Quality</b>	
	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)
	National Greenhouse Accounts (NGA) Factors (AGO)
	Guidelines for Energy Savings Action Plans (DEUS)
<b>Transport</b>	
	Guide to Traffic Generating Development (RTA)
<b>Rehabilitation</b>	
	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)
	Strategic Framework for Mine Closure (ANZMEC/MCA)
<b>Heritage</b>	
<i>Aboriginal</i>	Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC)
<i>Non- Aboriginal</i>	NSW Heritage Manual (NSW Heritage Office & DUAP)
	The Burra Charter (The Australia ICOMOS charter for places of cultural significance)
<b>Social &amp; Economic</b>	
	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)
<b>Waste</b>	
	Waste Classification Guidelines (DECC)