

# Secretary's Environmental Assessment Requirements

Section 78A(8) of the *Environmental Planning and Assessment Act 1979* and Schedule 2 of the *Environmental Planning and Assessment Regulation 2000*.

## Designated Development

<b>EAR Number</b>	996
<b>Proposal</b>	Development of two gravel pits adjacent to the Atlas-Campaspe Mine access road, to enable road upgrade and maintenance works.
<b>Location</b>	Pit A – Lot 614, DP 761601, adjacent to Link Road, and Pit B – Lot 1944, DP 763848, adjacent to Boree Plains – Gol Gol Road, both in the Balranald local government area.
<b>Applicant</b>	Cristal Mining Australia Limited
<b>Date of Issue</b>	23 November 2015
<b>Date of Expiry</b>	23 November 2017
<b>General Requirements</b>	<p>The Environmental Impact Statement (EIS) for the development must comply with the requirements in Clauses 6 and 7 of Schedule 2 of the <i>Environmental Planning and Assessment Regulation 2000</i>.</p> <p>In particular, the EIS must include:</p> <ul style="list-style-type: none"> <li>• an executive summary;</li> <li>• a comprehensive description of the development, including: <ul style="list-style-type: none"> <li>- a detailed site description and history of any previous quarrying on the site, including a current survey plan;</li> <li>- identification of the resource, including the amount, type and composition, as well as details regarding the timing and intensity of extractive operations, having regard to DRE's requirements (Attachment 2);</li> <li>- the layout of the proposed works and components (including any existing infrastructure that would be used for the development);</li> <li>- an assessment of the potential impacts of the development, as well as any cumulative impacts, including the measures that would be used to minimise, manage or offset these impacts;</li> <li>- a summary of all proposed environmental management and monitoring measures for the development;</li> <li>- a detailed rehabilitation plan for the site;</li> <li>- any likely interactions between the development and any existing/approved developments and land uses in the area; and</li> <li>- a list of any other approvals that must be obtained before the development may commence;</li> <li>- the permissibility of the development, including identification of the landuse zoning of the site;</li> <li>- identification of sensitive receivers likely to be affected by the development using clear maps/plans, including key landform areas, such as conservation areas and waterways;</li> </ul> </li> <li>• the reasons why the development should be approved, having regard to the economic, social and environmental aspects of the development and taking into consideration the objects of the <i>Environmental Planning &amp; Assessment Act 1979</i>; and</li> <li>• a signed declaration from the author of the EIS, certifying that the information contained within the document is neither false nor misleading.</li> </ul>
<b>Key Issues</b>	<p>The EIS must assess the potential impacts of the proposal at all stages of the development, including the establishment, operation and decommissioning of the development.</p> <p>The EIS must address the following specific issues:</p> <ul style="list-style-type: none"> <li>• <b>Biodiversity</b> – including: <ul style="list-style-type: none"> <li>- accurate predictions of any vegetation clearing on site;</li> <li>- a detailed assessment of the potential biodiversity impacts of the development, paying particular attention to threatened species and/or populations (or their habitats), endangered ecological communities and groundwater dependent ecosystems, having regard to the requirements of OEH (Attachment 2);</li> <li>- a detailed description of the proposed measures to maintain or improve the biodiversity values of the site in the medium to long term, as relevant;</li> </ul> </li> <li>• <b>Water</b> – including: <ul style="list-style-type: none"> <li>- an annual site water balance for representative years over the life of the development and demonstration that sufficient water supplies would be available to meet operational requirements;</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>- identification of any licensing requirements or other approvals required under the <i>Water Act 1912</i> and/or <i>Water Management Act 2000</i>;</li> <li>- a description of the measures proposed to ensure the development can operate in accordance with the requirements of any relevant Water Sharing Plan or water source embargo;</li> <li>- an assessment of activities that could cause erosion or sedimentation issues, and the proposed measures to prevent or control these impacts; and</li> <li>- an assessment of the likely impacts of the development on the quality and quantity of surface and ground water resources, having regard to the requirements of the DPI Water (Attachment 2); and</li> <li>- a detailed description of the proposed water management system, water monitoring program and other measures to mitigate surface and groundwater impacts;</li> <li>• <b>Air</b> – including an assessment of the likely air quality impacts of the development in accordance with the <i>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW</i>, having regard to EPA's requirements (Attachment 2). The assessment is to give particular attention to potential dust impacts on any nearby private receivers due to construction activities, the operation of the quarry and/or road haulage;</li> <li>• <b>Noise</b> – including: <ul style="list-style-type: none"> <li>- an assessment of the likely construction and operational noise impacts of the development in accordance with the <i>NSW Industrial Noise Policy</i> and the <i>Interim Construction Noise Guideline</i>, having regard to EPA's requirements (Attachment 2); and</li> <li>- an assessment of the likely road noise impacts (traffic and haulage) of the development under the <i>NSW Road Noise Policy</i>;</li> </ul> </li> <li>• <b>Heritage</b> – including: <ul style="list-style-type: none"> <li>- an assessment of the potential impacts on Aboriginal heritage (cultural and archaeological), including evidence of appropriate consultation with relevant Aboriginal communities/parties and documentation of the views of these stakeholders regarding the likely impact of the development on their cultural heritage. The assessment is to have regard to relevant policies and guidelines listed in Attachment 1, as well as OEH's requirements (Attachment 2);</li> </ul> </li> <li>• <b>Transport</b> – including: <ul style="list-style-type: none"> <li>- an assessment of potential traffic impacts on the capacity, condition, safety and efficiency of the local and State road networks, detailing the nature of the traffic generated, transport routes, traffic volumes and potential impacts on local and regional roads, having regard to RMS' requirements (Attachment 2); and</li> <li>- evidence of any consultation with relevant roads authorities, regarding the establishment of agreed contributions towards road upgrades or maintenance;</li> </ul> </li> <li>• <b>Land</b> – including: <ul style="list-style-type: none"> <li>- an assessment of potential impacts on the quality and quantity of the soils and land capability of the site, including any likely disturbance of contaminated soils, and the proposed mitigation, management and remedial measures (as appropriate);</li> <li>- an assessment of the likely impacts on landforms and topography, including the long term geotechnical stability of any new landforms, having regard to the requirements of DPI Lands (Attachment 2); and</li> <li>- an assessment of the compatibility of the development with other land uses in the vicinity of the development, in accordance with the requirements of Clause 12 of <i>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007</i>, having regard to DPI Agriculture's requirements (Attachment 2);</li> </ul> </li> <li>• <b>Waste</b> – including estimates of the quantity and nature of the waste streams that would be generated or received by the development and any measures that would be implemented to minimise, manage or dispose of these waste streams, having regard to EPA's requirements (Attachment 2);</li> <li>• <b>Public Safety</b> – including an assessment of the likely risks to public safety, paying particular attention to the transport, storage, handling and use of any hazardous or dangerous goods;</li> <li>• <b>Visual</b> – including an assessment of the likely visual impacts of the development on surrounding any private landowners and key vantage points in the public domain, paying particular attention to impacts on any nearby private residences and road users;</li> <li>• <b>Social &amp; Economic</b> – an assessment of the likely social and economic impacts of the development, including consideration of both the significance of the resource and the costs and benefits of the project; and</li> <li>• <b>Rehabilitation</b> – including: <ul style="list-style-type: none"> <li>- a detailed description of the proposed rehabilitation measures that would be undertaken throughout the development and during quarry closure, having regard to the requirements of DRE and DPI Lands (Attachment 2);</li> <li>- a detailed rehabilitation strategy, including justification for the proposed final landform and consideration of 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> </ul>
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<b>Environmental Planning Instruments</b>	<p>The EIS must take into account all relevant State Government environmental planning instruments, guidelines, policies, and plans. While not exhaustive, Attachment 1 contains a list of some of the environmental planning instruments, guidelines, policies and plans that may be relevant to the environmental assessment of this development.</p> <p>During the preparation of the EIS you must also consult the Department's EIS Guideline – Extractive Industries – Quarries. This guideline is available for purchase from the Department of Planning and Environment's Information Centre, 23-33 Bridge Street, Sydney or by calling 1300 305 695.</p> <p>In addition, the EIS must assess the development against relevant Council local environmental plans and development control plans/strategies.</p>
<b>Consultation</b>	<p>In preparing the EIS for the development, you should consult with relevant local, State or Commonwealth Government authorities, infrastructure and service providers and any surrounding landowners that may be impacted by the development. You should also consult with the owners of any Western Land Leases that apply to the proposed quarry sites.</p> <p>The EIS must describe the consultation that was carried out, identify the issues raised during this consultation, and explain how these issues have been addressed in the EIS.</p>

## ATTACHMENT 1

The following guidelines may assist in the preparation of the Environmental Impact Statement. 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>

### Environmental Planning Instruments, Policies, Guidelines & Plans

Environmental Planning Instruments - General	
	State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
	State Environmental Planning Policy (State and Regional Development) 2011
	State Environmental Planning Policy (Infrastructure) 2007
	Balranald Local Environmental Plan 2010
Risk Assessment	
	AS/NZS 4360:2004 Risk Management (Standards Australia)
	HB 203: 203:2006 Environmental Risk Management – Principles & Process (Standards Australia)
Land	
	State Environmental Planning Policy No. 55 – Remediation of Land
	Agricultural Land Classification (DPI)
	Rural Land Capability Mapping (OEH)
	Soil and Landscape Issues in Environmental Impact Assessment (NOW)
	Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC)
	Guidelines for Consultants Reporting on Contaminated Sites (EPA)
Water	
Groundwater	NSW Aquifer Interference Policy 2012 (NOW)
	NSW State Groundwater Policy Framework Document (NOW)
	NSW State Groundwater Quality Protection Policy (NOW)
	NSW State Groundwater Quantity Management Policy (NOW)
	Australian Groundwater Modelling Guidelines 2012 (Commonwealth)
	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)
	Guidelines for the Assessment & Management of Groundwater Contamination (EPA)
Surface Water	NSW State Rivers and Estuary Policy (NOW)
	NSW Government Water Quality and River Flow Objectives (EPA)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (EPA)
	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)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (EPA)
	Managing Urban Stormwater: Soils & Construction (Landcom) and associated Volume 2E: Mines and Quarries (DECC)
	Managing Urban Stormwater: Treatment Techniques (EPA)
	Managing Urban Stormwater: Source Control (EPA)
	Technical Guidelines: Bunding & Spill Management (EPA)
	A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH)
Flooding	NSW Guidelines for Controlled Activities (NOW)
	Floodplain Development Manual (OEH)
	Floodplain Risk Management Guideline (OEH)
Biodiversity	

	Threatened Biodiversity Survey and Assessment: Guidelines for Developments and Activities (DECC) 2004
	The Threatened Species Assessment Guideline – The Assessment of Significance (DECC) 2007
	NSW State Groundwater Dependent Ecosystem Policy (NOW)
	Risk Assessment Guidelines for Groundwater Dependent Ecosystems (NOW)
	State Environmental Planning Policy No. 44 – Koala Habitat Protection
	Policy & Guidelines – Aquatic Habitat Management and Fish Conservation (NSW Fisheries)
	Aquatic Ecology in EIA – EIS Guideline series (DP&E)
<b>Heritage</b>	
	The Burra Charter (The Australia ICOMOS charter for places of cultural significance)
	Guide to investigation, assessing and reporting on Aboriginal cultural heritage in NSW (OEH) 2011
	Draft Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation (DP&E)
	Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH)
	Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (OEH)
	Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW (OEH)
	NSW Heritage Manual (OEH)
	Statements of Heritage Impact (OEH)
<b>Noise</b>	
	NSW Industrial Noise Policy (EPA)
	Interim Construction Noise Guideline (EPA)
	NSW Road Noise Policy (EPA)
<b>Air</b>	
	Protection of the Environment Operations (Clean Air) Regulation 2002
	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA)
	Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (EPA)
	Assessment and Management of Odour from Stationary Sources in NSW (DEC)
	National Greenhouse Accounts Factors (Commonwealth)
<b>Transport</b>	
	Guide to Traffic Generating Development (RTA)
	Road Design Guide (RMS) & relevant Austroads Standards
<b>Public Safety</b>	
	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 Analysis
<b>Resource</b>	
	Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves 2012 (JORC)
<b>Waste</b>	
	Waste Classification Guidelines (DECC)
	Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes 1999 (EPA)
<b>Rehabilitation</b>	
	Mine Rehabilitation – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth)
	Mine Closure and Completion – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth)
	Strategic Framework for Mine Closure (ANZMEC-MCA)

## **ATTACHMENT 2**

### **AGENCIES' CORRESPONDENCE**