

Director-General's Requirements

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

Application Number	06_0334
Project	<p>The proposed extension of the Tharbogang Quarry and Landfill, which includes:</p> <ul style="list-style-type: none"> • extending the existing quarry to the south-east and the north-west; • extracting, processing and transporting by road up to 400,000 tonnes of extractive materials a year for 40 years; • extending the landfill operations into the existing quarry; • receiving up to 100,000 tonnes of solid waste a year; and • progressively rehabilitating the quarry voids with landfill.
Site	Lots 201 and 202 DP 756035, Slopes Road, Tharbogang
Proponent	Griffith City Council
Date of Issue	29 March 2009
General Requirements	<p>The Environmental Assessment of the project must include:</p> <ul style="list-style-type: none"> • an executive summary; • a detailed description of the: <ul style="list-style-type: none"> - existing approved quarrying or landfill operations on site, including any statutory approvals that apply to these operations/facilities; and - the existing environmental management and monitoring regime for the quarry; • a detailed description of the project, including the: <ul style="list-style-type: none"> - need for the project; - alternatives considered; - likely staging of the project; and - plans of any proposed building works or mobile plant; • a detailed assessment of the quantity and quality of the extractive resources on the site; • a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment; • 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"> - a description of the existing environment; - an assessment of the potential impacts of all stages of the project, including any cumulative impacts, taking into consideration any relevant guidelines, policies, plans and statutory provisions (see below); - 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 potentially significant risks to the environment; • a statement of commitments, outlining all the proposed environmental management and monitoring measures; • 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 & Assessment Act 1979</i>; • a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.
Key Issues	<ul style="list-style-type: none"> • Strategic Waste Management and Justification – including the volumes and nature of wastes to be accepted at the site, and how these wastes would be stored and handled on site. The Environmental Assessment must provide a strategic assessment of the landfill component of the project, including:

	<ul style="list-style-type: none"> – a clear justification of the demand for the landfill having regard to the matters listed under clause 12 of <i>State Environmental Planning Policy No.48 – Major Putrescible Landfill</i>; – consideration of all reasonable and feasible alternatives to landfilling waste; and – minimising waste that would be disposed of in the landfill; • Flora and Fauna – including impacts on threatened species, populations or endangered ecological communities, or their habitats and details of vegetation offsets to ensure there is no net loss of flora and fauna values in the area in the medium to long term; • Water – details of surface and ground water impacts, including: <ul style="list-style-type: none"> – an assessment of the potential for the project to cause surface water, soil and ground water contamination, whether through direct impacts on the site, or indirectly through the movement of polluted waters/soils and leachate off the site. The Environmental Assessment must provide details of potential impacts on groundwater dependent ecosystems in the locality, Tharbogang Swamp, and Lake Wyangan; – a detailed hydrogeological investigation of the impacts of the project on ground water quality and quantity on the site and in the locality; – a detailed Site Water Balance of the landfill and quarry components; – details of the proposed measures to be implemented to prevent or minimise the potential for surface water, soil and ground water contamination, supported by a quality assurance and quality control system, on-going monitoring, and contingency measures; and – an assessment of the suitability of the soil at the site for the project, and demonstration of how potential salinity issues at the site would be appropriately minimised/managed; • Noise – including construction, operation and off-site road noise impacts; • Blasting and Vibration; • Air Quality – including dust and odour impacts and details of the likely greenhouse gas emissions from the project and what measures are proposed to be implemented to minimise, mitigate, and manage such emissions; • Traffic and Transport – including details of traffic volumes generated by the project and an assessment of the capacity and safety of the proposed transport route (including the railway level crossing) and details of all necessary road infrastructure upgrades must be provided, including site ingress/egress and any impacts to local or regional roads from the project; • Hazards and Risk – include an assessment of potential hazards on site to determine the potential for off site impacts under the relevant provisions of <i>State Environmental Planning Policy No.33 – Hazardous and Offensive Development</i>; • Heritage – including Aboriginal and non-Aboriginal heritage; • Visual; and • Rehabilitation and Final Land Form - including a justification for the proposed final land form and use in relation to the strategic land use objectives for the area. A detailed description of how the site would be progressively rehabilitated and integrated into the surrounding landscape; the measures that would be put in place to ensure sufficient financial resources are available to implement the proposed rehabilitation measures, and the ongoing landfilling of the site following the cessation of extraction activities.
References	The environmental assessment of the key issues listed above should 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.
Consultation	<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 should consult with the:</p>

	<ul style="list-style-type: none"> • Australian Rail Track Corporation; • Department of Environment and Climate Change; • Department of Water and Energy; • Department of Primary Industries; • Murrumbidgee Catchment Management Authority; • Roads and Traffic Authority; • relevant Local Aboriginal Land Councils; and • adjacent councils. <p>The consultation process and the issues raised must be described in the Environmental Assessment.</p>
Deemed refusal period	60 days

Policies, Guidelines & Plans

Aspect	Policy /Methodology
Risk	AS/NZS 4360:2004 Risk Management (Standards Australia) HB 203: 203:2006 Environmental Risk Management – Principles & Process (Standards Australia) Risk Management Handbook for the Mining Industry (DPI)
Waste	NSW Waste Avoidance and Resource Recovery Strategy 2007 (DECC) NSW Waste Avoidance and Resource Recovery Strategy Performance Report 2006 (DECC) Waste Classification Guidelines: Part 1 Classification of Waste (DECC) 2008 Waste Classification Guidelines: Part 2 Immobilisation of Waste (DECC) 2008 Waste Classification Guidelines: Part 3 Waste Containing Radioactive Material (DECC) 2008 Draft Environmental Guidelines for Industrial Waste Landfilling (EPA) 1998 Environmental Guidelines: Solid Waste Landfills (EPA) 1996 EIS Guidelines: Landfilling (DUAP) 1996 Guidelines on Resource Recovery Exemptions (Land Application) (DECC) 2008 Environmental Guidelines: Composting and Related Organics Processing Facilities (DEC) 2004 Environmental Guidelines: Use and Disposal of Biosolids Products (EPA) 1997
Flora and Fauna	Draft Guidelines for Threatened Species Assessment under Part 3A of the <i>Environmental Planning and Assessment Act 1979</i> (DEC) NSW Groundwater Dependent Ecosystem Policy (DLWC)
Soil and Water	Rural Land Capability Mapping (DLWC) Agricultural Land Classification (DPI) Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC & NHMRC) National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPC) Draft Guidelines for the Assessment & Management of Groundwater Contamination (DECC) State Environmental Planning Policy No. 55 – Remediation of Land Managing Land Contamination – Planning Guidelines SEPP 55 – Remediation of Land (DOP)
Soil	
Surface Water	National Water Quality Management Strategy: Water quality management - an outline of the policies (ANZECC/ARMCANZ) National Water Quality Management Strategy: Policies and principles - a reference document (ANZECC/ARMCANZ) National Water Quality Management Strategy: Implementation guidelines (ANZECC/ARMCANZ) 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) Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC) State Water Management Outcomes Plan

	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC)
	Managing Urban Stormwater: Soils & Construction (Landcom)
	Managing Urban Stormwater: Treatment Techniques (DECC)
	Managing Urban Stormwater: Source Control (DECC)
	Technical Guidelines: Bunding & Spill Management (DECC)
	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)
	NSW State Groundwater Policy Framework Document (DLWC)
<i>Groundwater</i>	NSW State Groundwater Quality Protection Policy (DLWC)
	NSW State Groundwater Quantity Management Policy (DLWC) Draft
	Murray-Darling Basin Groundwater Quality. Sampling Guidelines. Technical Report No 3 (MDBC)
	Murray-Darling Basin Commission. Groundwater Flow Modelling Guideline (Aquaterra Consulting Pty Ltd)
Noise & Blasting	
	NSW Industrial Noise Policy (EPA) Jan 2000
	Environmental Criteria for Road Traffic Noise (NSW EPA) May 1999
	Environmental Noise Management Manual (RTA) Dec 2001
	NSW Construction Noise Guideline – Draft August 2008 (DECC)
	Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Ground Vibration (ANZEC) Sep 1990
	Assessing Vibration: a technical guideline (DEC) Feb 2006
	Environmental Noise Control Manual (DECC)
Air Quality	
	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)
Transport	
	Guide to Traffic Generating Development (RTA)
	Road Design Guide (RTA)
Hazards	
	State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
	Applying SEPP 33 – Hazardous and Offensive Development Application Guidelines (DUAP)
	Multi-Level Risk Assessment
	Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis
Heritage	
<i>Aboriginal</i>	Ask First; A Guide to Respecting Indigenous Heritage Places and Values (AHC) 2002
	Aboriginal Cultural Heritage; Standards and Guidelines Kit (NSW NPWS) Working Draft 1997
	Aboriginal History and Heritage: A Guide (NSW Heritage Office)
	Aboriginal Cultural Heritage Consultation and Investigation (RTA) 2008
	Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC)
<i>Non- Aboriginal</i>	Statements of Heritage Impact (NSW Heritage Office)
	Skeletal Remains: Guidelines for Management of Human Skeletal Remains under the Heritage Act 1977 (NSW Heritage Office) 1998
	NSW Heritage Manual: Assessing Heritage Significance (NSW Heritage Office) 2001

Rehabilitation	
	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)