

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	12 February 2007
Date of Expiration	12 February 2009
General Requirements	<p>The Environmental Assessment must include</p> <ul style="list-style-type: none"> • an executive summary; • a detailed description of the project including the: <ul style="list-style-type: none"> – need for the project; – alternatives considered; – various components and stages of the project; and – likely inter-relationship between the proposed operations and the existing or approved quarry and landfill operations; • a detailed assessment of the quantity and quality of the extractive resources on the site; • consideration of any relevant statutory provisions; • an overview of all the environmental impacts of the project, identifying the key issues for further assessment, and 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 general overview of environmental impacts of the project (see above), which includes: <ul style="list-style-type: none"> – a description of the existing environment; – an assessment of the potential impacts of the project, including any cumulative impacts from the concurrent operation of the quarry and landfill; – 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 project, the suitability of the site, and the benefits of the project; and • 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	<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</i>

	<p><i>No.48 – Major Putrescible Landfill;</i></p> <ul style="list-style-type: none"> – consideration of all reasonable and feasible alternatives to landfilling waste; and – minimising waste that would be disposed of in the landfill; <ul style="list-style-type: none"> • 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	<p>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.</p>
Consultation	<p>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.</p> <p>In particular you must consult with the:</p> <ul style="list-style-type: none"> • Australian Rail Track Corporation;

	<ul style="list-style-type: none"> • Department of Environment and Conservation; • Department of Natural Resources; • 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

State Government Technical and Policy Guidelines - For Reference

Aspect	Policy /Methodology
Soil and Water	
	<ul style="list-style-type: none"> • <i>Managing Urban Stormwater: Soils and Construction Volume 1 4th Edition</i> (Landcom); • <i>Guidelines for Fresh and Marine Water Quality and Guidelines for Water Quality Monitoring and Reporting</i> (ANZECC); • the various <i>State Groundwater Policy</i> documents (DNR); • <i>Approved Methods for the Sampling and Analysis of Water Pollutants in NSW</i> (DEC);
Flora and Fauna	
	<ul style="list-style-type: none"> • draft <i>Guidelines for Threatened Species Assessment</i> (DEC); • <i>Threatened Biodiversity Survey and Assessment: Guidelines for Development and Activities</i> (DEC); • <i>State Groundwater Dependent Ecosystems Policy</i>(DNR);
Noise	
	<ul style="list-style-type: none"> • <i>NSW Industrial Noise Policy</i> (DEC); • <i>Environmental Criteria for Road Traffic Noise</i> (DEC); • <i>Construction Site Noise - Environmental Noise Control Manual</i> (DEC);
Blasting and Vibration	
	<ul style="list-style-type: none"> • <i>Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration</i> (ANZECC, 1990); • <i>Assessing Vibration: a Technical Guideline</i> (DEC);
Air Quality	
	<ul style="list-style-type: none"> • <i>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW</i> (DEC); • <i>Approved Methods for the Sampling and Analysis of Air Pollutants in NSW</i> (DEC); • draft policy <i>Assessment and Management of Odour from Stationary Sources in NSW 2000</i> (DEC);
Heritage	
	<ul style="list-style-type: none"> • draft <i>Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation</i> (DEC); • <i>Assessing Heritage Significance</i> (NSW Heritage Office); • <i>NSW Heritage Manual</i> (NSW Heritage Office);
Traffic	
	<ul style="list-style-type: none"> • <i>Guide to Traffic Generating Development</i> (RTA); • <i>RTA Road Design Guide</i> (RTA); • relevant Austroad standards;
Hazards and Risk	
	<ul style="list-style-type: none"> • <i>Hazardous Industry Planning Advisory Paper No. 6 - Guidelines for Hazard Analysis</i> (DUAP, 1997); • <i>Multi-Level Risk Assessment</i> (DUAP, 1997)
Waste	
	<ul style="list-style-type: none"> • <i>Environmental Guidelines: Assessment and Classification and Management of Liquid and Non-Liquid Wastes</i> (DEC). • <i>Environmental Guidelines: Solid Waste Landfills</i> (DEC)
Rehabilitation	
	<ul style="list-style-type: none"> • <i>Mine Rehabilitation</i> (Commonwealth Department of Industry Tourism and Resources); • <i>Best Practice in Landform Design for Rehabilitation</i> (DEH).