

In reply please send to: Head Office
Our reference: FN84-00765L0
Your reference: 10/21027/1
Contact: Peter Evans (02) 4908 4391

NSW Planning
Major Projects Assessment - Mining & Industry
GPO Box 39
SYDNEY NSW 2001

30 January 2012

Attention: Mr Howard Reed,

Dear Sir,

**RE: Teralba Quarry Project (MP 10_0183)
Exhibition of Environmental Assessment
Lots 1 & 2, DP 224037**

Thank you for your letter dated 1st December 2010 seeking input into the Part 3a Planning Assessment for the proposed Teralba Quarry extraction.

As the proposed development is located within a Mine Subsidence District the Board's approval is required as part of a consent condition under the Environmental Planning and Assessment Act.

The site for the proposed development is underlain by shallow old mine workings and the risk of mine subsidence and impact of removing overburden requires careful evaluation.

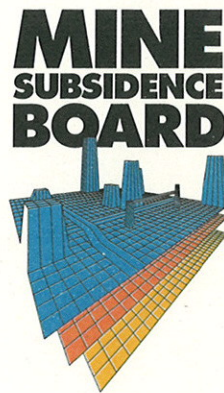
In reviewing the proposed development the Board has examined the Proponents Environmental Assessment Report dated November 2011 provided by R.W Corkery.

I understand the proposed development seeks to extend the existing quarry together with the alteration or erection of a variety of improvements such as roads, buildings and other structures. This will enable the recovery of additional commercial quantities of conglomerate for processing and sale.

Please note the following review comments;

1. The Environmental Assessment Report, Section 2.3 page 2-9, incorrectly states "*there is no requirement for an approval from the Mine Subsidence Board given the now proven practice of extracting conglomerate above the former coal workings in the Great Northern Seam*".
2. The proponent intends to monitor the quarry on a daily basis "*to ensure there are no areas of subsidence into the mined voids*". This monitoring

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should be extended to the developed site incorporating the quarry and site improvements. It is recommended the proponent implements a management plan to mitigate the impact of any mine subsidence disturbances such as surface tension cracking, potholing and surface subsidence.

3. The proponents' assessment of mine subsidence and the likely impact on the development is inadequate as it relies on what it states as "*proven experience*" without any assessment by a Geotechnical Engineer. Therefore it is recommended;
 - a. A geotechnical investigation is conducted to assess the long term stability of mine workings to determine suitable design parameters for proposed improvements. Or otherwise recommend suitable measures to mitigate the risk of subsidence such as the grouting of mine workings.
 - b. The geotechnical investigation is to include as a minimum details of the coal seam depth, height of workings, floor conditions and thickness of competent rock, as well as detailing the pillar dimensions used in any analysis. A sensitivity analysis of the parameters used in any calculations is to be included in the report. A copy of the geotechnical report is to be forwarded onto the Mine Subsidence Board.
4. The Proponent shall seek the Boards approval to alter or erect any improvements on the site including a new haulage road, office building, weigh bridges, conveyors, power transmission line, and telecommunications. The Proponent will need to;
 - a. Submit final design drawings for acceptance by the Board prior to commencement of construction with certification by a qualified structural engineer to the effect that; (i) The improvements will be constructed in accordance with the mine subsidence design parameters recommended by the Geotechnical Engineer; and (ii) The improvements will remain safe, serviceable, and any damage from mine subsidence will be localised and readily repairable.
 - b. Upon completion of construction, work-as-executed certification by a qualified structural engineer is to be forwarded to the Board confirming that construction was in accordance with the plans previously accepted by the Board.
5. The Proponent is to consult with the Department of Trade & Investment (Division of Resources & Energy) concerning;
 - a. Its proposal to remove overburden to within 12m of old mine workings and the hazards associated with mine subsidence.
 - b. The risk of "heating" in the old mine workings and mitigation measures.

If you have any enquiries please contact Mr Peter Evans, ph 02 49084391.

Yours faithfully



Peter Evans
Subsidence Risk Engineer