



MEMO - ADDENDUM

To	Tomarata Sand Limited
Cc	Barker & Associates
Date	22/08/2024
Subject	Pavement Design Comment
HC Ref	21404f

This office has been engaged to provide additional comment on the pavement design for the future use of the Kings Quarry expansion (Stage 2).

Further to the previously provided Stage 1 Pavement Design Report, ref: L21404d (Rev A) dated 19th December 2021 we have completed preliminary pavement calculations to check the additional pavement requirements to service the future expansion of the quarry. This addendum has been prepared to address a query raised as part of the proposed Stage 2 quarry consent.

We understand the Stage 2 quarry consent is proposing to increase the truck volumes to 188 truck movements from year 11 of the quarry life.

For the purposes of these preliminary calculations we have allowed for 200 truck and trailer movements on top of the existing 335 vehicles per day and have increased the design life to 25 years. This equates to 535 VPD with 84% HCV.

In order to provide a pavement which satisfies the above, the existing unsealed pavement would need to be stabilised to a depth of 300mm with 10kg/m² lime and 10kg/m² cement (to achieve CBR12%), then overlay with 200mm of GAP65 and 100mm of GAP40.

Compared to the current Stage 1 pavement design this would be an additional 50mm of basecourse depth plus the additional lime and cement stabilising.

A thorough pavement design check would be required to confirm the above at the time of Stage 2 detailed design.

Should you wish to discuss any aspects of the above information, please contact this office.

We trust this meets with your approval.

Yours faithfully,

HUTCHINSON CONSULTING ENGINEERS LTD

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