



Proud history, bright future.

MEJ305-C1-S0068  
KO: TB

28 August 2019

██████████  
Development Victoria  
8 Exhibition St  
MELBOURNE VICTORIA 3000  
AUSTRALIA

Dear ██████████

**CENTRAL PIER — ADVICE TO CLOSE PIER**

**Engineering Inspections**

Since November 2018, Kellogg Brown & Root Pty Ltd (KBR) has undertaken an engineering inspection of the sub-structure of Central Pier every two months, with the most recent inspection occurring in July 2019. At each of these inspections the structural elements of the Pier has notably deteriorated, MEJ305-TD-MN-GEN-0009 (KBR, July 2019).

Based on photographic records from 2017, the findings of the recent two-monthly inspections and detailed pile inspections demonstrate that the structural integrity of the pier is clearly and consistently deteriorating.

Of particular concern is the presence of termites, concrete spalling when touched (the breaking away of concrete from steel reinforcement), and the recent (2019) subsidence or failure of piles across the Pier. In particular, the substantial deterioration of piles over a two year period including the failure of piles next to or alongside recently repaired piles, indicates rapid deterioration of the Pier, and that the repair works may actually be placing additional stress on the surrounding piles.

Given this rapid rate of deterioration and that the localised repairs do not significantly increase the overall structural integrity of the Pier, we conclude that the pier is unsafe and accordingly KBR cannot send members of our staff under the pier to conduct any further inspections.

Additionally we are aware that other sub-consultants regularly go under the pier. Our advice is that this should cease as it is unsafe to do so.

**Closure of Pier**

As set out above, based on the condition of the sub-structure and the rapid deterioration that we have witnessed to date, our view is that occupation of Central Pier is no longer sustainable and represents an unacceptable risk to life.

Accordingly, we advise that access to the Pier (above and below) should cease immediately.

Yours sincerely,

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For and on behalf of KBR

