

# *Category 3: Excellence in Sustainability and Innovation*

## Taylor's Road Project

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The logo for Stabilime, featuring the word "Stabilime" in a dark blue, cursive script font on a white rectangular background.

## *2023 AustStab Awards of Excellence*

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# Background

Stabilime Distributors undertook a large-scale project on Taylors Road, Dandenong that involved transforming a Melbourne water flood plain into a commercial property development while reducing the use of quarry product imports.

Stabilime Distributors played a lead role in the design and construction methodology, ensuring that unsuitable soil for construction purposes and low-grade locally recycled fill was transformed into structured A grade engineered fill.

The team at Stabilime Distributors improved the soil engineering properties, increasing durability and permeability, and returning saturated soil to the optimum moisture range. By doing so, they reduced the need to import quarry product, thus delivering a significant environmental and economic benefit.

By reusing materials and implementing engineering techniques that improve soil properties, Stabilime Distributors demonstrated a responsible and innovative approach to construction that benefits both the environment and the community.

The project to transform the flood plain into a commercial property development has not only reduced the use of quarry products but also improved the soil engineering properties, returning the soil to an optimum moisture range.

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Pavement Recycling and Stabilisation Association

# Project Benefits

The overall sustainability benefit was largely focussed on saving of imported virgin material and burden to tip sites.

Secondary benefits to consider is up to 6,666 truck & trailer movements of material to and from site, as well as the associated traffic congestion implications and deterioration of local road network not yet upgraded to cater for this traffic loading.

- Site size: 350,000m<sup>2</sup>
- Area stabilised: 300,000m<sup>2</sup>
- Imported material saved: 100,000t – 200,000t
- Landfill eliminated: 50,000t – 200,000t

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# Project Benefits – Social

**Sustainability** refers also to **social and economic sustainability**

**Social Benefits** include reduced construction critical path program time by approximately 150 days, which reduced the local construction interruption timeframe by 150 days.



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# Project Benefits – Economic

**Sustainability refers also to social and economic sustainability**

**Economic Benefits:** The Stabilime construction process was operationally more cost effective by >\$500,000+ the value to be placed on project overheads and interruption cost for local congestion.



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