Gold Coast Light Rail - Stage 2

Gold Coast, QLD

While meeting very strict deadlines to have the upgrade ready for the 2018 Commonwealth Games, Keller worked adjacent to the Gold Coast Highway with no disruption to traffic successfully completing works in a very restricted area.

The project

Stage 2 of the Gold Coast Light Right is a 7.3km link between the Gold Coast University and Helensvale. The project features dual track light rail alignment, three new light rail stations, a new Park ‘n’ Ride facility, and expansion of existing Park ‘n’ Ride facilities. Keller's scope involved bored piles up to 1200mm diameter for retaining walls and three bridges as well as driven octagonal piles for the stabling yard.

The challenge

A major challenge was working adjacent to the major arterial Gold Coast Highway, as well as working in and around existing live light rail infrastructure.
The ground also consisted of high-strength rock in a number of areas.

The solution

The Keller project team established and adhered to strict exclusion zone. Each rig manoeuvre was planned and sequenced to ensure it did not encroach on these exclusion zones. This required the use of additional spotters. To deal with the ground conditions, Keller employed a combination of very experienced operators and hard rock drilling tools to penetrate the very high strength rock zones.

Project facts

Owner(s)
CPB Contractors

Keller business unit(s)
Keller Australia

Main contractor(s)
Department of Transport and Main Roads

Solutions
Heavy foundations

Markets
Infrastructure

Techniques
Bored piles
Driven precast piles