

GoldLinQ Survey and Geotechnical Investigations

Construction of Stage One of Queensland's first light rail system is planned to start in early 2012. Prior to the commencement of these works, GoldLinQ need to undertake geotechnical investigations along the corridor.

Geotechnical investigations are an essential part of all construction activities as they provide information regarding ground conditions which are an important tool in finalising design and construction methodology. After an initial desktop study and assessment the following investigation methods will be utilised along the light rail corridor;

- test pit excavations;
- boreholes; and
- cone penetration tests (CPTs).

The test pits are required primarily for newly laid pavement and include a shallow excavation. This will take approximately four hours per location to complete. Bore holes are required to confirm geology and soil strengths and will be undertaken on both land and water.

While works will be primarily carried out within the existing road reserve, some bore hole investigations are also required in the Nerang River to prepare for the construction of a new, dedicated light rail bridge, which will be built on the western side of the existing road bridge.

A barge will commence geotechnical investigation of the river bed to determine the integrity of the rock structure below the sandy bed.



Typical drilling rig mounted on truck

The CPTs will be carried out to determine material density strength, type and consistency of soils and to confirm that no obstructions exist. The equipment used will be truck mounted and will take four hours per location to complete.

When necessary, traffic management will be in place for the safety of motorists, pedestrians and construction workers.

All activities are being undertaken during daylight hours to minimise noise disturbance. These works will occur along the Stage One corridor from Griffith University to Broadbeach from August to October 2011 (excluding areas where early works activities are already underway).

Timing of this work is subject to weather and construction conditions.

If you require further information please call the project hotline on 1800 967 377.