

Restoring Culverts In A Rainforest Area

INDUSTRY

Infrastructure

STRUCTURE

Culvert

PROBLEM

Void filling & sealing

LOCATION

North Queensland, Australia

DURATION / YEAR

2 days / 2011

TECHNOLOGY

Structural grouting

BUSINESS UNIT

Mainmark Australia



Summary

Three culverts located in a high rainfall rainforest area in Far North Queensland were requiring correction.

Our method was by far the most cost-effective way to fix the problems, as the alternative of closing the roads and replacing the culverts would have been far too costly.

Key issues were not to cause any impact on the pristine environment, to ensure road support, while causing the least possible interruption to traffic.

Objectives

To seal and re-align the culverts to ensure their correct operation and to re-support the road without environmental impact.

Solution

Working from the inside of the slippery, wet pipes, our team correctly re-aligned the culverts, sealed the joints and filled 10m³ of voids.

The culverts were re-aligned and re-supported. The roadway was re-supported. No material escaped into the environment.

Pictured above: Culverts, 70 metre long, in a North Queensland rainforest were re-aligned and re-supported; and the roadway above was also re-supported, all in just two days.