

TELETEST™ FOCUS+ IN RIVER CROSSING APPLICATIONS

Eddyfi Technologies inspected and assessed the integrity of the aerial river crossings of the 20.3 cm (8 in) condensate line of a New Zealand customer.



FOCUS+ used to inspect condensate line in New Plymouth, New Zealand

They were ideal for guided wave technology because they offer limited access to conventional, localized non-destructive testing (NDT). Further, the pipe is long and straight, and guided waves offer 100% volumetric coverage of the pipe wall.

The Teletest™ FOCUS+ guided wave system was used to inspect these aerial river crossings. FOCUS+ is an externally applied inspection tool that can screen pipelines and process piping for internal and external corrosion. Pipelines can be tested in service, avoiding the need to

shut down and stop production during inspection. A wide range of pipe sizes can be inspected, from 50.8 mm (2 in) to 1.2 m (48 in) in nominal diameters.

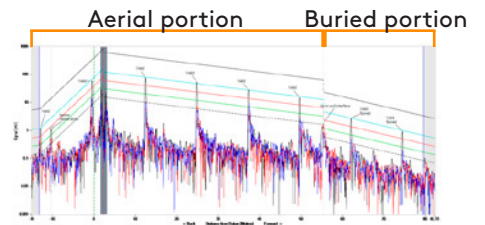
The widest of the aerial river crossings inspected was 65 m (213.3 ft) long after which the line entered a buried section. The FOCUS+ five-ring torsional tool was used in this particular case and the results show that the crossing was completely inspected and an additional 20–25 m (65.6–82.0 ft) of the buried and wrapped section.



Location photo of a typical aerial river crossing inspected with FOCUS+

The aerial river crossings inspected during the scope of this project were found to be in good condition and no area required further investigation. Regular inspections of this area are

planned to ensure integrity.



A typical A-scan image collected during the inspection

This is the second inspection of this type conducted by Eddyfi Technologies for this New Zealand customer. The collected data shows that this type of application is well suited for inspection with LRUT (guided wave ultrasonic inspection).