

HAURAKI



PILING LTD.

Widening the Rail Corridor — DART2 Newmarket, Auckland

Bored piles are being constructed for the DART2 project as part of a Joint Venture Project with Fulton Hogan Ltd for ONTRACK. The scheme is part of the wider Auckland program to dual the western rail line to Henderson, via Eden Park in time for Rugby World Cup 2011.



The site is located between 2 local geological lava flows where basalt rubble and competent basalt are mixed with ash deposits and made ground.

Tight working areas, alongside a live railway, necessitated careful planning and stringent safety controls.

Drilling piles up to 18m deep through a range of soil types in the same pile bore required a full spectrum of tooling to be available at all times. Tools included augers, buckets, grabs, chisels and core barrels.

Soil type varies from very soft ash deposits $N=0$ to moderately strong basalt $>80\text{Mpa}$ UCS.

All piles were founded a minimum 1m into the solid basalt.

Project Details:

Pile Type: Temporary Cased Bored, 264No. 900, 1050 and 1200 dia

Contract: Target Out-turn Cost JV: Piling Completed as a Sub-Alliance with Fulton Hogan

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