

DRAINAGE • DEMOLITION • DE-WATERING • EARTHWORKS • CIVIL



OAKURA SEWERAGE, Part A

New Plymouth District Council

CANTERBURY CONTRACTOR OF THE YEAR AWARDS 09
INNOVATION AWARD



OAKURA SEWERAGE, Part A

New Plymouth District Council

NEW PLYMOUTH



INTRODUCTION

This contract involved the installation of new sewer reticulation to a significant area of the Oakura township close to New Plymouth. This was one of seven contracts let for the construction of sewers within the Oakura drainage district. It involved 2700metres of sewer piping in sizes varying from 150 to 225mm diameter, 1450metres of laterals, 550metres of pumping mains, and 400metres of storm water piping varying in size from 300 to 600mm diameter together with 75 manholes. This work varied in depth from 1.5 to 4.5 metres in depth. Much of this piping was in narrow streets and private property, high rainfall in the area had to be closely coordinated to ensure backfilling and compaction of trenches was carried out close behind pipelaying - this ensured no scouring of the trenches occurred. We had excellent feedback on our performance of this contract.

Contract Value \$2,315,000.

INNOVATION – HOW IT WAS DEVELOPED, WHAT IT DOES

For this contract DCL was paid all works involved with digging and laying the sewer laterals.

This included, pot holing and protection of existing services, replacement of kerb and channel, replacement of berm and replacement of footpath.

We developed an underground drill for this contract which allowed us to be more efficient, saving on time and labour.

This drill allowed us to complete the works without disturbing these areas - we were still paid for the restorations and remedial work of these areas even through the work was not required.

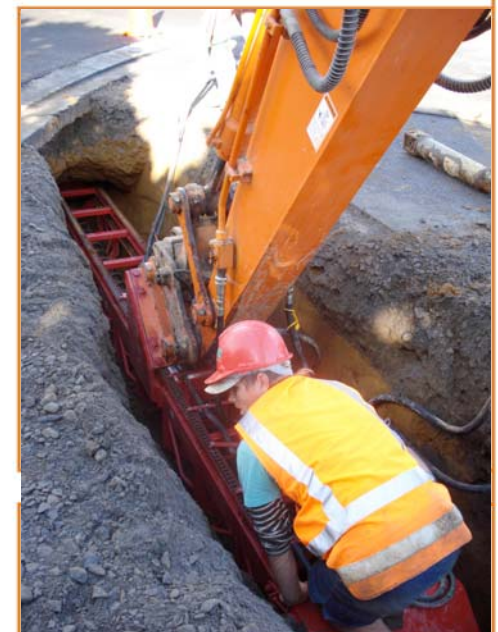
BENEFITS OF INNOVATION

This innovation helped us to be more competitive with our tender bid as well as more profitable at the end of the contract.

See below the cost break down for this payment of works is as follows:

Description	Rate	Quantity	Total
100mm Sewer Lateral	\$85/m	250	21250
Restoration in Berms	\$60/m	250	15000
Restoration of Kerb	\$75/m	100	7500
Restoration of Footpath	\$55/m	75	4125
TOTAL WORKS	of		\$47875 + GST

Of this total figure the profit percentage on this section of works was 59%.





DORMER CONSTRUCTION LTD



VALUE OF INNOVATION TO INDUSTRY

This innovation will allow us as contractors to be more competitive with tender bids as well as more profitable at the end of the contract.

The drill will allow us to cut man and machinery hours on projects similar to this. For example if we had completed the works by the conventional dig and lay method it would have been approximately 12 additional man hours plus plant and equipment - with this drill the works were completed within a total of 2 man hours.

This drill could equate in massive savings for many contracts similar to the Oakaura contract and in turn make contracts of this kind more profitable for us to win.

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Client: New Plymouth District Council
Principal contractor: Dormer Construction
Consultant/Engineer: Duffill Watts
Project commencement date: March 08
Completion certificate date: March 09
Engineer to the contract: Tony Alcott
Engineer phone number: 0274864274

