

SHOALHAVEN MINOR WATER MAINS REPLACEMENT

OIL/GAS | SEWER | STORMWATER | POWER | **WATER** | TELCO

PROJECT OVERVIEW

UEA installed 4,300 metres of minor water mains for Shoalhaven Water in order to improve the water supply to several dairy farms, coastal towns and suburban areas. The works were in the Nowra and Culburra Beach region of NSW and spread over 19 sites.



LOCATION

Shoalhaven NSW



CLIENT

Shoalhaven Water



PIPE

125mm PE



GEOLOGY

Clay & sandstone



LENGTH

4,300 metres



TECHNIQUE

HDD & civil construction

SCOPE OF WORKS

Work involved replacing existing 40mm and 50mm mains with 125mm PE. UEA offered a complete package by performing all works with internal HDD and civil crews. Other works included temporary water supplies, service connections as well as the testing and commissioning of the main.

The package was designed as an open trench contract, but UEA proposed horizontal directional drilling (HDD) as an alternative so as to reduce the impact on the local community, limit disturbance to the natural surface and reduce restoration. UEA used a combination of technologies to install the new mains – HDD, bed boring and conventional trenching techniques.

CHALLENGES

UEA and the client worked together to overcome design issues before crews mobilised to site in order to avoid delays. UEA's crews completed all components of the project, providing a streamlined project with only one point of contact. The greatest challenge was the different ground conditions, including soft water charged clay, beach sand, shale and hard rock. UEA's experience, combined with the choice of drill – a DitchWitch AT3020 HDD rig – allowed the team to overcome these issues.

COMPLETION

UEA's ability to provide multiple disciplines to install the new water mains was a huge success, and in doing so reduced the impact on the residents, particularly around restoration and traffic congestion.