

TURNER ROAD PRECINCT WATER SERVICING

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

PROJECT OVERVIEW

The Turner Road Precinct Water Servicing project was initiated as a part of the NFRP program. The scope of the project included the detailed design, construction and commissioning of water infrastructure to facilitate future developments in the South West Growth Centre, allowing connection of new water supply infrastructure to existing Sydney Water systems.



LOCATION
Sydney NSW



CLIENT
Sydney Utility Contractor



PIPE
450mm & 560mm PE



GEOLOGY
Sydney sandstone



LENGTH
2 x 357 metres
1 x 180 metre



TECHNIQUE
HDD

SCOPE OF WORKS

Works associated with the project included a 6.12ML surface reservoir (WS0479), 112kW water pumping station (WP0415), 1.9km DN375 inlet rising main, and 2.6km DN300-DN450 outlet mains. All other associated infrastructure included a reservoir access road, reservoir chlorination unit, reservoir scour, overflow and stormwater, as well as connection to the Manooka Valley Development.

UEA was contracted, and has now completed works on the Turner Road Precinct Water Servicing project, including:

- Horizontal directional drilling 357 metres of twin lines, inlet and outlet water mains (OD450mm and OD560mm), at a minimum horizontal separation distance of two metres apart, across Manooka Valley within a Transgrid easement
- Horizontal directional drilling of 140 metres single line outlet water main (OD355) across South Creek
- Welding and installation of HDPE pipe



CONSTRUCTION

UEA utilised its D100 HDD rig to carry out the twin horizontal directional drills in Manooka Valley. Due to the hilly and undulating terrain, UEA designed the bore to be conducted over multiple shots. The link up and tie-in of the twin OD450mm and OD560mm shots was carried out by UEA's crew. UEA also utilised its 6090 HDD rig to carry out the HDD installation underneath South Creek, Gledswood Hills.

COMPLETION

As a result of the undulating terrain and variable ground conditions encountered throughout each individual bore, the works presented several challenges throughout the project. UEA was able to successfully and professionally manage these challenges and deliver the project to the high standard required.