

# Through Rough and Smooth in Australia's Sunshine State Queensland

## Microtunneling HOBAS® SewerLine® D<sub>e</sub> 1499

820 meters HOBAS Pipe have been micro-tunneled in medium to extremely hard rocky terrain to provide for safe sanitary discharge of a residential area.

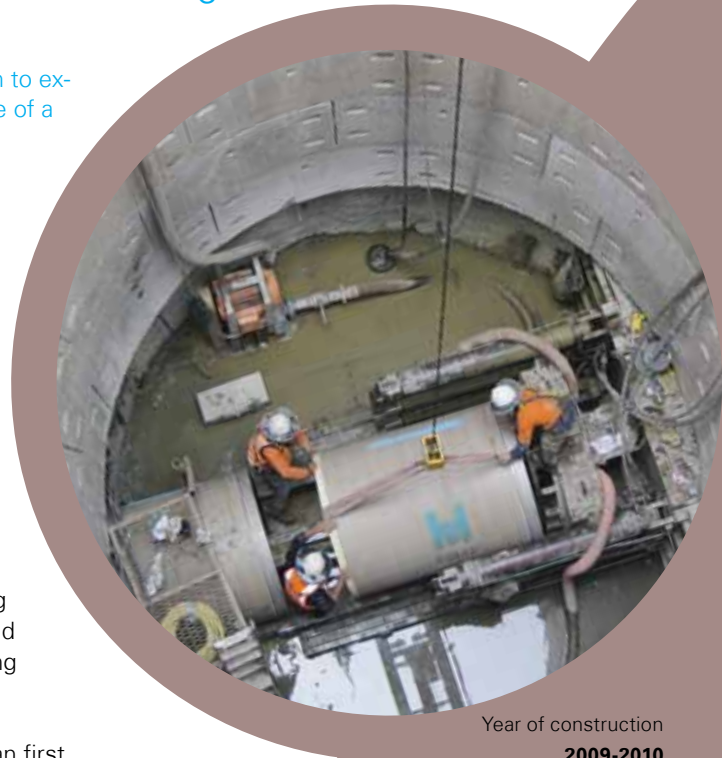
Pimpana is a newly established 7,000 hectare residential area around 50 kilometers south of Brisbane in Australia's famed Sunshine State Queensland. An 820 m-long pipeline has been installed to connect the residential area to the existing wastewater network. The line had to be microtunneled in difficult ground conditions with surface clay mixed with medium to hard sub-surface rock. Furthermore, the route crosses under water bodies, infrastructure including roadways and existing residential zones and under areas of environmental sensitivity.

For this challenging project HOBAS Jacking Pipe was the contractor's obvious first choice thanks to its low risk properties. The ground conditions of hard broken rock had proven to be particularly problematic for a nearby project that was jacking clay pipes. HOBAS was chosen because of its performance and successful jacking track record in similar varying and challenging ground conditions.

Between December 2009 and September 2010, in an Australian first, 820 m DN 1400 HOBAS CC-GRP Jacking Pipe were successfully installed in multiple drives of almost 300 meters. The maximum load was just 200 tons. Installed by microtunneling company Rob Carr Pty Ltd, the project entailed construction of deep shafts and manholes, as well as installation of the DN1400 gravity sewer at grades as low as 0.1 percent.

The project has brought the residents of Australia's Sunshine State a new and improved wastewater system which will stand the test of time. The [durability assesment by the independent institution GHD](#) confirms the 100+ asset life of HOBAS Jacking Pipe.

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Year of construction

**2009-2010**

Length of pipeline

**820 m**

Diameter

**D<sub>e</sub> 1499**

Pressure Class

**PN 1**

Application

**Wastewater**

Installation method

**Jacking**

Contractor

**Rob Carr Pty Ltd.**

Advantages

**Long service life,  
excellent characteristics when jacked  
through hard rock,  
easy handling**

