

Marandoo Dewatering Pipeline

Pipeline in Pilbara, WA, Australia



Project Need

This project was executed at the Marandoo Iron Ore Mine Site owned by Hamersley Iron, and operated by Pilbara Iron, which is located approximately 37km east of Tom Price in Western Australia. The Marandoo pipeline project involved the design and installation of a pipeline system to facilitate the dewatering of an adjacent area, in order to make way for a mine extension.

It was anticipated that the addition of the new mine would increase production at Marandoo from an output of 15 Mtpa to 31 Mtpa of iron ore whilst extending the mine life by another 16 years.

Solution

Steel Mains was selected as the principal supplier for the project, manufacturing and delivering 38.5km of SINTALOCK® Type I joint pipe as well as SINTAJOINT® elastomeric rubber ring joint (RRJ) pipe in various sizes ranging between 508-1016mm diameter.

The pipeline was fabricated using Australian mild steel, fusion bonded polyethylene coated, cement lined pipe complying with Australian Standards AS1579, AS4321 and AS1281.

Achievements

Steel Mains was able to manufacture and deliver all pipes and fittings along the pipeline route in a timeframe that suited the construction pipe laying schedules, thereby improving pipe laying efficiencies and safety. Clearing was minimized during pipeline installation in order to respect the surrounding protected areas including the Karajini National Park.

Steel Mains' Sintakote® mild steel cement lined pipes ensure certainty of a service life beyond 100 years, thereby securing long term water supply for the town of Tom Price.

Project: Marandoo Pipeline

Principal: Rio Tinto

Location: Pilbara WA

Completion: November 2012

Supplied: 38.5km of 1016/914/762/508mm of RRJ and Sintalock I MSCL pipe.