

# Karara Wharf - Geraldton Port Berth 7

At Piling Contractors, we are proud of our role as one of Australia's premier specialist foundation engineering companies. We have an impressive track record for providing outstanding results on significant marine projects including:

- Karara Wharf Geraldton Port Berth 7
- Fremantle Port Berths 4 - 9
- Newcastle Port Berths K7, K8 & K9 and K10
- Townsville Port - Ross River Bridge

We specialise in offering design and construction solutions, as well as value engineering, alliancing, partnering and construct only services.

We work for a wide range of clients on projects associated with all types of road, rail, port and airport transport infrastructure projects as well as heavy engineering, resources and mining industries, utilities and commercial building.



## PROJECT OVERVIEW

- Dedicated Shipping Berth No. 7 for Gindalbie Metals \$2.6B Karara Mine, Port and Rail Development
- Geraldton Port Berth No. 7 will allow shipping of 16 Mtpa of Iron Ore from a Panamax Vessel Berth
- The Berth construction contract was tendered and won jointly with Laing O'Rourke as the Main Contractor



## PILING SCOPE OF WORK

- 38 No. 900mm diameter vertical piles (20mm wall thickness, 20 tonne) to 45m
- 42 No. 900mm diameter dolphin raker piles (25mm wt, 30t) to 50m
- Installation of 180m of 300t capacity falsework (4 No. sets of 30m long falsework, installed and extracted six times)



## KEY PLANT

- 4 No. Cranes up to 275t
- Hydraulic Hammers and Vibrators up to 16t
- Piling Leaders – Hydraulic Rotating Leader, Fixed Leader, Flying Leader
- 180m of 300t Falsework

## WHY FALSEWORK

- No disruption to existing port operations
- Limited vessel movements allowed within the harbour
- Ability to operate independent of tides and sea states
- Ability to open up numerous work fronts without additional vessels
- Ease of access for following trades
- Capacity for cranes up to 300t at safe operational limits
- Difficult ground conditions, better suited to landbased plant
- Short lead time to mobilise



# Building the Foundations of Australia

Piling Contractors is a part of the Keller Group, the world's largest independent specialist ground engineering contractor. Over its 150 year history Keller has been built on engineering excellence and a commitment to continual innovation. Piling Contractors wholeheartedly embraces these principles and contributes to the technological advances within the Group.

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