

# Cashmere Iron Definitive Feasibility Study Report

ProMet Engineers Pty Ltd (for Cashmere Iron)



“ The quality of engineering, tender process management and feasibility report was excellent and has contributed to a successful outcome, ahead of time and within budget. ”

Jigar Sheth, Senior Study Manager ,  
ProMet Engineers



Cashmere Iron Ltd (Cashmere) is the proponent behind a proposed expansion of the Port of Esperance to increase iron ore exports from a number of mines within the Yilgarn Region of Western Australia.

ProMet Engineers Pty Ltd (ProMet) was commissioned by Cashmere to undertake studies for the expansion of the port (marine and landside) infrastructure.

BMT JFA Consultants was requested by ProMet to provide assistance into the completion of the marine works for the proposed expansion, including the upgrade of all associated infrastructure, and specifically to provide input into the completion of the Definitive Feasibility Study (DFS).



## Location

Esperance, Western Australia

## Date

2011

## BMT JFA Role

- Validation of the proposed layout of the port infrastructure
- Assessment of the wave climate at the site to determine the design wave height for the port infrastructure
- Development of engineering designs for new Berth No. 4, new seawalls and breakwater, as well as the upgrade of Berth No. 3
- Assessment of the site's geotechnical conditions and investigation of the associated stability improvement (sheet piling) and dredging requirements
- Development of a detailed construction methodology incorporating various staging requirements
- Preparation of a definitive feasibility study level cost estimates incorporating internal and external (market based) input.

## Services & Expertise Provided

- Port planning and development
- Hydrodynamic studies
- Breakwater and seawall design
- Jetty and wharf design
- Dredging study and assessment
- Capital dredging works consultancy.