



Roy Hill Iron Ore Project

Project Category: Process Design

Client: Roy Hill Iron Ore Pty Ltd via
Lycopodium Engineering Pty Ltd

Location: Pilbara Region, Western Australia

Capacity: 61.5 Mtpa

Commodity: Iron Ore



Roy Hill PES, Pilbara Region, WA

Scope of Work

Provide process design services to Lycopodium Engineering for the Roy Hill Iron Ore Preliminary Engineering Study.

Flowsheet

Crushing and screening to produce a high lump and fines product for high grade ore. Low grade ore will progress through a further stage of crushing before upgraded via a wet plant consisting of cycloning, up-current classification (UCC) and spirals to reject contaminants and produce a fines product only at 50Mtpa.

Notable Features

The size of the ore body and the planned centralised processing plant saw the selection of relocatable sizer primary/secondary crushers installations and overland conveying. The plant was designed to accommodate both high grade and low grade ore with the wet plant being brought on-line for the low grade campaigns only. At a feed rate of 9500t/h, multiple units of the world's largest equipment was selected; 14 banana screens, 17 cone crushers, 12 UCC's etc.

Outcome

The preliminary Engineering Study was delivered. The project is progressing into BFS.

