

Iluka – Hamilton – 55TPH MSP

Client: Iluka Resources
Location: Australia
Commencement: 2003

Capability Groups: Mineral Processing
Completion: 2007

Services Provided

- Metallurgical testing
- Flowsheet development
- Plant design
- Process equipment supply
- Process equipment commissioning
- Plant commissioning
- Plant performance testing

Highlights

- State of the art layout, safety and environmental plant design
- Overall plant efficiencies in line with guaranteed performance
- Supply of Hot Acid Leach and related effluent neutralisation for Zircon cleaning included in project

Superior Technology

Mineral Technologies was awarded the contract to design a 55 t/h Mineral Separation Plant (MSP) for Iluka's Douglas Deposit in 2005.

This followed two years of detailed metallurgical testwork and flowsheet design at our laboratories in Carrara, Queensland.

The engineering design team included 40 engineers and drafters delivering basic and detailed design over a 15-month period.

Key design personnel were based on-site during the construction phase to oversee installation of the supplied equipment and to provide commissioning coordination, as well as assistance with metallurgical plant support during ramp-up.

Mineral Technologies provided a guaranteed process plant design and the following equipment:

- Gravity spirals
- Magnetic separators
- High tension roll separators
- Kelsey jig
- Shaking tables
- Rotary table feeders

