



Client:	Cape Flattery Silica Mines (CFSM)	Capability Groups:	Mineral Processing
Location:	Australia	Completion:	Ongoing
Commencement:	2011		

Services Provided

- Extensive metallurgical testwork
- Process equipment design and supply
- Process equipment commissioning
- Operator training
- Plant auditing
- Onsite support

Highlights

- Specialised wear components designed to maximise equipment durability and lifespan
- Stacking of MG6.3 spirals above MG6.3B spirals to provide high quality Silica Sand. Utilising the water cut of the MG6.3B spiral to allow water balance throughout the plant
- Mineral Technologies has assisted CFSM over many years from the early 1970s



Superior Technology

Cape Flattery Silica Mines (CFSM), is the world's largest Silica Sand manufacturer and is a wholly owned company of Mitsubishi Corporation.

A leading producer of world-class Silica Sand for the glass, foundry and chemical industries, CFSM engaged Mineral Technologies to assist in the development of process solutions for the Cape Flattery Silica Mine located in Far North Queensland, Australia.

Process and Engineering Design

Drawing on over 75-years' experience in mineral sands, the engineering and metallurgical team developed a process flowsheet to deliver high-grade Silica Sand to meet CFSM's specific requirements.

Mineral Technologies also assisted CFSM with the design and operation of the product slurry pipeline; delivering the silica product to the stacker reclaimer stockpile adjacent to the loading jetty.

Within the spiral circuit, a primary distributor feeds directly into the rougher stage spirals. This is followed by numerous 3-way distributors to the lower stages which include cleaner, scavenger and re-cleaner circuits for final product conditioning in preparation for shipment.

Equipment Supplied

- MG6.3/MG6.3B triple start spiral assemblies
- MK7 BE & MK3 TE feed distributors
- Product launders and delivery hoses
- Trommel slurring chute

