



# DREDGING

## KAGARA - THALANGA COPPER

**PROJECT:** Tailings Dam Recovery / Reprocessing

**SCOPE:** The dredge was used as a production dredge, and materials were pumped directly to the grinding circuit for reprocessing. The operation required 50+% densities at a rate of 100tph.

Product: Copper / Lead Tailings  
Specific Gravity: Sg 4.  
Distance pumped: 800m  
Pipe Line: PN16 200mm HDPE  
TDH 54m

**CHALLENGES:** The Tailings Storage Facility TSF had been capped for quite a period and re-vegetation had begun. The dam was uncapped by way of Dozers and Excavators.

During the process a large amount of rock was left behind and caused a number of pump blockages. In addition the initial pH of the TSF was around 2. During the dredge process a significant amount of lime was used to raise the pH to 7+

**ACHIEVEMENTS:** With constant pump blockages reducing up time, it was decided a static screen and booster station should be used to increase production uptime.

The project was largely successful, however a few redundancies such as a large surge bin and bigger pipeline may have reduced mill down time due to pump blockages.



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