

**Client** Yancoal  
Mount Thorley Warkworth  
South CHPP

**Project** Sand Screen Upgrades

**Capital** \$600k Approx.

**Completed** 2018

**Services Provided**

- Concept Design
- Brownfield 3d Digital Scan
- Structural Engineering
- Mechanical Engineering
- Piping Engineering
- Multi-discipline detail design & drafting

**Project Brief**

Design Process was engaged to complete the design to replace two existing high frequency Sand Screens (tailings dewatering) with a substantially larger single low-head reverse incline vibrating screen.

The design scope included

- Refurbished existing spare screen refurbished with an inclined discharge,
- Cast-basalt feed pipes & feed box
- Asymmetric under-pan and discharge chutes - to tie into existing plant infrastructure & existing concrete floor penetrations.

The new screen and accompanying chutes were supported with a new support incorporating surrounding access and a separable access over the screen to maintain the screen drive motor.

