

project brief

TYPE OF FACILITY:

Bauxite processing facility



Weipa Tailings Lines (Phase One)

■ Weipa, Queensland, Australia



The project required the construction of an 8KM tailings line around a large tailings dam which had an oval plan shape. The dam shape necessitated deflection at the pipe joints for the pipe line to remain in the required position on the dam wall.

Victaulic style 77 flexible couplings were selected by the designer to achieve the required deflection at the joints whilst still providing joint reliability under operating conditions. Style 77 couplings are assembled on Vic-Rings that maintain the full wall thickness of the pipe. The couplings also enabled easy rotation of the pipe sections over time to ensure uniform wear rates on the steel are achieved and hence maximise the lifespan of the pipeline.

SPECIFICATIONS:

SERVICES:

Bauxite tailings line

PIPE MATERIALS:

Carbon Steel

PIPE SIZE RANGE:

550mm nb with groove cut into Vic ring.

MARKET:

Mining

VICTAULIC SOLUTIONS:

Flexible couplings used for their known compliance with the joint deflection requirements of the engineer's design.

OWNER:

Comalco

CONTRACTORS:

Bechtel

ENGINEER/CONSULTANT:

Bechtel

COMPLETED DATE:

2005



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