

Capel HDPE Dam Reline Project

Value \$1.7M



Works completed as Watpac Civil & Mining

Director's involvement – Tim Malseed – Operations Manager/Pete Hancock – Project Manager

FACTS

Client	Iluka Resources	Division	Civil and Mining
Contact	Mike Harwood	Commenced	January 2018
Location	Capel, WA	Anticipated Completion	June 2018

PROJECT OVERVIEW

Watpac has been contracted to complete the excavation and reline of the B25- 066 Acid Effluent Dam; the reline of Iron Oxide Dam No 2 (IO#2), and the excavation of a new Inert Waste Pit.

B25-066 Acid Effluent Dam Works - Three stages of work are involved for the B25-066 Acid Dam Works, these being: Excavate and haul the tailings from the B25-066 Acid Dam and stockpile on the Old Solution Storage Dam. Volume of solids for removal 4,388m³; Install 2mm HDPE liner system (double layered, with leak detection) including prep of existing old liner system; and Construct Specified Items: Re -instate existing leak detection sump; Rebuild existing roadway (complete perimeter); New launder and ring main; Install traffic barriers; and New 1.8m high fence with double vehicle access gates.

Reline Iron Oxide Dam No 2 (IO#2) Works - In brief work items include: Removal of existing bunds, redundant pipework and old concrete traffic barriers; Remove stockpile of chainmesh fencing and tarps near the eastern corner of IO#2; Install 1.5mm HDPE liner system (double layer, separated by geogrid and connected to leak detection system) including prep of existing old liner system; Lower floor level of existing spillway between IO#1 and IO#2 from 0.3m RL to 0.7m RL; Remove (fill) spillway between IO#2 and IO#3 and reline; Rebuild existing roads on all four sides of the IO#2; Install new launder and move operational pipe work (two moves / 6 live lines) as required on eastern wall; Supply and install 45 off 4m traffic barriers along the western wall of IO#2; and Install 185m of 1.8 m plastic coated chainmesh fence high fence (on eastern boundary of dam only) with vehicle access gate to the environmental bore located on this wall.

Inert Waste Pit Works - The pit will be excavated in two stages:

Stage One involves excavating 117,030 m³ of sand from the proposed site. The walls of the pit will have an approximate slope of 1:2 and the floor will be RL 15. The sand excavated from this area will first be used to cap the identified area of the Old Inert Waste Pit with 2m of clean fill. The residual sand will be used to create a stockpile on top of this area.

Stage Two involves excavating a total volume of 141,540m³ of sand from the proposed site.