PEMBROKE RESOURCES - OLIVE DOWNS COMPLEX FEASIBILITY STUDIES – EXPANSION & THROUGHPUT



The Client PEMBROKE

Pembroke Resources is an Australian based company focused on development of high-quality steelmaking coal assets.

The Project

Flagstaff undertook the management of multiple integrated feasibility studies:

- **Major Mine Expansion Study**: Duplication of processes and non-process infrastructure to double production
- **CPP Debottlenecking Study**: optimising existing CPP performance to achieve ~20% throughput increase
- **Tailings Management Study**: Optimise the tailings management strategy and infrastructure to support production while minimising CAPEX and OPEX
- **Scope**: Development of technical solutions, definitive scopes, execution plans, and budgets for FID approval to increase CHPP production from 6Mtpa to 14.4Mtpa

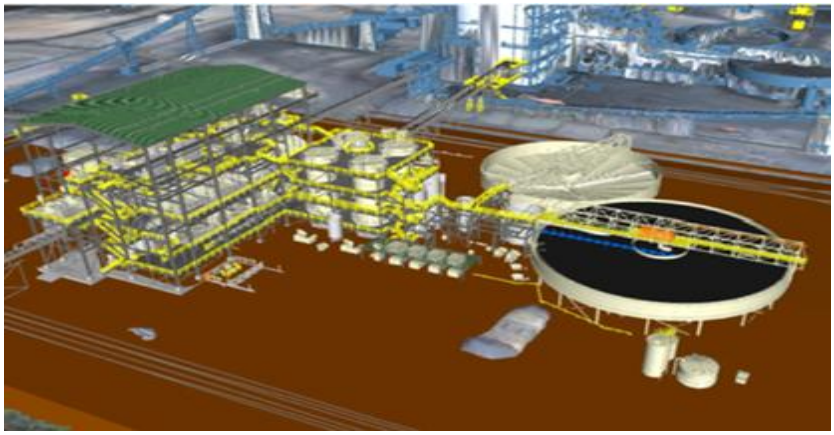
The Challenge

Complex Multi-Study Programme

- Immature organisational systems and capability to support the development of a major projects portfolio
- Each project within the portfolio required development of functional solutions, scope definition, and Class 3 estimates for production expansion with tight FID timelines
- Multiple interfaces, stakeholders, constraints and conditions across the portfolio, operations, community, and statutory authorities.
- Coordination of multiple Engineering Service Providers
- Tailings management strategy required immediate

The Outcome:

- Negotiated EPC contractor relationships and managed multiple engineering service providers to deliver integrated technical solutions.
- Studies delivered under budget to Class 3 maturity to enable FID approval with confidence in technical solution, cost, schedule, and execution capability – enabling a pathway to double production capacity.



- **Value Enhancement:** Business case optimised and expedited with the identification of an interim debottlenecking upgrade
- **Integrated Systems Approach**: Deployed proven project management systems for complex multi-study delivery
- **Cost Performance**: Study portfolio delivered 20% under budget
- **Risk Mitigation**: Strategic tailings solution eliminated significant capital investment in the near term
- **Execution Ready**: Project positioned through planning, maturity of solution and systems and processes for immediate transition to execution

'experience makes a difference'

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