

# FLOTATION CAPABILITIES

Leveraging the expertise and knowledge of a long-standing heritage engineering business in the mining centre of Kalgoorlie, Mintrex founder Tom Kendall and Technical Manager, Hien Ngo initially provided client representative services overseeing the design of Western Mining Corporation's (WMC) Kambalda Nickel Concentrator utilising a flash flotation circuit, from 1993 to 1998. The experience and knowledge gained in flotation during this project and subsequent projects and expertise from other engineers joining Mintrex since then, has been valuable to many of Mintrex's clients and our current team has been privileged to contribute to the success of more recent projects including those highlighted below.:

## Showcase Projects

- **EMERALD RESOURCES LIMITED:** The Okvau Gold Project, Cambodia, 2 Mtpa Definitive Feasibility Study was completed by Mintrex in 2017. Early works engineering detail design has commenced in 2019 and was completed in 2020 by Mintrex. The project includes the design of a rougher flotation circuit and regrinding circuit. This process plant was commissioned and is in full production since Q2 of 2021.
- **TASMAN MINING LIMITED:** The Blackwater Gold project in South Island of New Zealand scoping study was completed by Mintrex in 2019. The project includes a rougher flotation circuit and ultra fine grinding circuit as well as costing of such a circuit at scoping study level.
- **EXPLAURUM LIMITED:** The Tampia Gold Project, WA, 1.5Mtpa Scoping Study was completed by Mintrex in 2018. The project includes the design of a 2 stages gold flotation circuit and an ultra fine grinding circuit as well as costing of such a circuit at feasibility study level.
- **HOT CHILI LIMITED:** The Productora, Chile, 14 Mtpa Copper Pre-feasibility Study (Copper oxide and sulphide circuits as well as Molybdenum Circuit) was completed by Mintrex in 2016 with an update in 2018. Mintrex' main tasks were the design and management of the metallurgical testwork programme for the copper sulphide and molybdenum flotation circuits as well as overall study management of the total project.
- **SANDFIRE RESOURCES NL:** The DeGrussa Copper, WA, 1.5 Mtpa Copper Definitive Feasibility Study (DFS) was successfully completed by Mintrex in 2011 (Mintrex also completed the Scoping and Pre-feasibility Studies). As a result of the quality of the DFS, engineering support services awarded to and successfully completed by Mintrex included compiling the EPC contract, engineering data sheets for all capital equipment, procurement and early earthworks design. Mintrex added value by helping to maximise Sandfire's return on equity.



*"Mintrex carried out the work with enthusiasm and always acted professionally. They were able to complete all tasks in a timely manner and cost effectively. I would have no hesitation in working with Mintrex in a similar role again."*  
Martin Reed, former Project Manager (DeGrussa Project)

- **LYNAS CORPORATION:** The Mt Weld, WA, 0.25 Mtpa Rare Earths Project Construction Management project was completed by Mintrex in 2010. Engineering services provided included client representation (approval and design sign-off), operational readiness and commissioning. Mintrex was able to reduce Lynas' capital risk by providing the expertise and guidance as needed throughout the construction. Subsequently in 2011 Mintrex completed the DFS for the Mt Weld Upgrade.