# SAVANNAH PASTE BACKFILL PROJECT

## SCOPE OF WORK

GR Engineering was awarded a design and construct contract by Kimberley Nickel Mines Pty Ltd to supply a continuous production paste backfill plant for the Sally Malay nickel mine, which has since been renamed the Savannah Project.

The paste plant is designed to filter and then repulp the existing plant tailings in a controlled fashion with cement and deliver the resulting paste underground, via a dedicated borehole and underground reticulation system. The plant has a designed throughput rate of 96 dry tph of tailings at a feed density of 65% solids. At nominal cement dosing rates, a design throughput rate of 100 tph of paste is achieved. Duty and standby vacuum disc filters are installed to maximise operating utilisation.

The paste plant was designed to facilitate maximum flexibility to enable it to operate at reduced capacity when required. GR Engineering used in house design systems to model and design the paste plant which enabled a high level of review from all discipline and process engineers to ensure design errors, omissions and clashes were eliminated to the maximum extent prior to fabrication and installation.

Structural, mechanical, piping and electrical installations were conducted and managed on site by GR Engineering direct hired personnel. Earthworks, civil and tank installation were subcontracted to third parties and managed by GR Engineering supervisors.

**Commodity:** Paste Backfill
**Region:** Australia
**Location:** Approximately 120 km north of Halls Creek in the Kimberley region of Western Australia
**Project Type:** Brownfields, lump sum contract

**Client:** Kimberley Nickel Mines Pty Ltd, a wholly owned subsidiary of Panoramic Resources Ltd
**Award Date:** February 2007
**Completion Date:** September 2007
**Project Manager:** Andrew Bennett
**Process Manager:** Bill Gosling