PROJECT PROFILE



Commodity:	Gold
Client:	Pan African Resources
Location:	South Africa
Project Type:	EPCM
Scope:	9.6 Mtpa gold tailings reprocessing plant
Duration:	23 months
Completed:	2024
Value:	USD 80 million

MOGALE TAILINGS RETREATMENT

SGS Bateman played a pivotal role as the engineering, procurement and construction management (EPCM) contractor for Pan African Resources' Mogale Tailings Retreatment (MTR) operation, on the West Rand of Gauteng.

The MTR operation, which includes a 9.6 Mtpa gold tailings reprocessing plant, has been lauded for its environmental remediation, efficient project delivery and positive impact on the local community.

SGS Bateman's responsibilities as EPCM contractor included the detailed engineering, through to commissioning of the gold tailings reprocessing plant and related infrastructure – the overall project encompassed two key components: tailings reclamation and the process plant.

The MTR Project is an 800 000 t/month gold recovery plant treating reclaimed gold mine tailings in the Roodepoort, Krugersdorp and Randfontein areas. The plant uses a conventional CIL gold recovery process followed by a dual AARL split elution and electrowinning process. Tailings are disposed into an old mining pit.

Raw water is sourced from old underground water sources located nearby. The raw water is treated in a bespoke chemical process to render it suitable for use as process water.

Tailings reclamation, tailings deposition and raw water supply were not in the SGS Bateman scope of work and were provided by the client.

To meet the ambitious project timeline, SGS Bateman developed a tightly integrated schedule, which synchronised the design process and procurement of long-lead items, as well as construction and commissioning activities.

Collaboration was key to the project's success. SGS Bateman worked closely with the client, suppliers and contractors to maintain continual alignment on objectives. Safety was also a critical focus, with SGS Bateman achieving zero lost-time injuries across the scope of work that involved 1.7 million working hours.

The project is also expected to provide sustained employment opportunities for local workers and service providers, leaving a lasting positive impact.