



Thunderbird Mineral Sands



PROJECT SUMMARY

GCM were engaged by Kimberley Mineral Sands (KMS) to trial a SM2500 in conveyor mode at their Thunderbird Operations which commenced in June 2021. KMS were seeking information on product sizing and productivity of the Surface Miner and ultimately its suitability for its mining operation.

Key project objectives that were met:

- Consistently produce suitable sized material for downstream processing and eliminate the need for a secondary sizing process at the Processing Plant.
- Effectively and efficiently mill all material types.
- Demonstrate the operational performance of the surface miner proven with a maximum of 1050bcm/hour achieved and an average of 607 bcm/hour for the project.
- Effectiveness of side stacking of material using conveyor method confirmed.

Case Study

21-08

Year

2021

Client

Kimberley Mineral Sands

Site/Location

Dampier Peninsula,
Kimberlies
WA

Region

Kimberley's, Western
Australia

Scope

Trial Mining of Mineral
Sands with SM2500 in
Conveyor mode

Total Production

56,067 BCM

Rock Type

Mineral Sands

Rock Hardness

No UCS data presented to
GCM

GET Consumption

Average of 81 bcm/pick

Safety

Zero LTIs

Project Highlights

Effective Side stacking of
using conveyor method with
consistent material sizing

Global Civil and Mining

4 Dampier Road
Welshpool WA 6106
(08) 9258 3900

www.globalcivilandmining.com