

Yandi Rail Crossing and Road Upgrade



PROJECT SUMMARY

BHP Iron Ore have an extensive rail network which runs throughout their Pilbara operations up to Port Hedland. The rail network requires regular maintenance and most recently is undergoing upgrades due to expansion. The access to the rail is often on remote access tracks and narrow rail crossings. To facilitate the expansion, parts of the access roads and crossings need upgrading to allow better access for people and equipment.

GCM mobilised a Wirtgen 2500 Surface Miner (2500SM) to Yandi to assist Austral Constructions in the excavation of a hill adjacent to a rail crossing near Yandi mine site and thereby enabling a safer and larger rail crossing to be constructed.

In this application GCM used the surface miner to achieve excellent results. The work was carried out in a short time frame with minimal impact on operations. All trains were able to keep running while the excavation of the material was carried without any impact on the railway. The surface miner was able to cut precisely to the high wall eliminating the need for subsequent work and maintaining a stabilised rock face.

Case Study
GCM19-07

Year
2019

Client
BHP Billiton

Site/Location
Yandi

Region
Pilbara WA

Scope
Rail Crossing Upgrade

Volume
42,678 bcm

Production
297 bcm per hr.

Rock Type
Iron Ore

Rock Hardness
30 to > 100 MPa

GET Consumption
25 bcm per pick

Mechanical Availability
96.3%

Safety
Zero LTIs

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