

Parkwater Estate- Cowaramup



Case Study
22-07

Year
2022

Client
Parkwater Corporation

Site/Location
Cowaramup

Region
South-Western Australia

Scope
Excavation of residential lots, road reserve and services trenches

Total Production
52,700m³

Rock Type
Ironstone / Bauxite

Rock Hardness
20-60 Mpa

Safety
Zero LTIs

Product
90% passing 75mm

PROJECT SUMMARY

GCM were contracted by Parkwater Corporation for the Stage 2 expansion to the Cowaramup Parkwater subdivision in early 2022.

A key decision behind the selection of a Surface Miner for the project was the flexibility of the machine. The 2500SM used on project completed pre-strip of subsoil for rehabilitation across the whole subdivision before levelling the residential lots to design, excavating the road reserve to sub-grade and integrating services trenches for Water, Power and Sewer into the finished surface.

The hard Ironstone/Bauxite material present throughout the project was crushed by the Surface Miner during the milling process to 90% passing 75mm, with the resulting product passed through a screen for an 84% passing 40mm spec. This is highly valuable as a roadbase material and was on-sold for local construction, significantly reducing the project cost to the Principal.

Construction of the expansion was completed right alongside Stage 1, in some areas <50m to established properties and within meters of existing services pipelines without disruption. The low-impact mining method of the 2500SM, combined with the comparatively low noise levels allowed for continuous work with minimal disruption or impact on the surrounds and neighbours.

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