



**engenium**  
smart project delivery

## Lake Giles Iron Ore Project Preliminary Feasibility Study and Scoping Study

### Client

Macarthur Minerals

### Project Location

100 km West of Menzies and 160 km to the North West of Kalgoorlie, Western Australia.

### Project Value

Hematite ≈ \$150-200 Million

Magnetite ≈ \$2.5-3 Billion

### Project Summary

Macarthur Minerals engaged Engenium to undertake the Preliminary Feasibility Study for the Lake Giles DSO Hematite Iron Ore Project and the Scoping Study for the larger Magnetite Iron Ore Project.

The scope holistically covered both projects from pit to port. This included processing, mine operations centre, camp, internal roads, haul roads, rail siding, slurry pipeline and port infrastructure.

The logistics and port options explored were the proposed Oakajee Port, Geraldton Port, existing and proposed berths at the Kwinana based facilities of Fremantle Port, the proposed James Point Port, Bunbury Port, Albany Port and Esperance Port.

On completion of the Scoping Study Report Engenium performed ongoing Metallurgical Analysis for the Magnetite Project focusing on confirming the response of the different ore zones within the deposit.

A robust Process Flow Design was developed for the project prior to the commencement of the Magnetite Project Preliminary Feasibility Study.

### Want To Know More?

For more information please contact our Perth office on +61 (0)8 6460 0300, email [info@engenium.com.au](mailto:info@engenium.com.au), or visit our website [engenium.com.au](http://engenium.com.au).

**Delivering Value. Delivering Results.**