



RIO TINTO YANDI CORROSION REPAIRS

95KM NORTH-WEST
OF NEWMAN, WA

MAINTENANCE - BLAST AND PAINT

PROJECT

Rio Tinto Yandicoogina Corrosion Repairs

CLIENT

Rio Tinto Iron Ore

Ben Falconer

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DURATEC CONTACT

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DESCRIPTION

Yandicoogina is an iron ore mine located in the Pilbara region of WA, 95km north-west of Newman.

Duratec was engaged to complete corrosion repairs to a reclaimer at Yandicoogina during a scheduled shutdown. The scope of works included corrosion removal, parent metal repairs and the application of protective coatings in fully encapsulated work zones:

- ▮ High pressure water blast of structure to remove iron ore from steel surface.
- ▮ Abrasive blast of structural steel on head end primary structure of reclaimer, areas of slew drive and bracing connections.
- ▮ Liaised with Rio Tinto engineer to determine which areas required immediate structural strengthening.
- ▮ Carried out parent metal repairs on designated areas.
- ▮ Striped in initial coat of surface tolerant epoxy
- ▮ Spray applied initial coat of surface tolerant epoxy at 250 DFT and allowed to cure.
- ▮ Spray applied second and final coat of surface tolerant epoxy to a total DFT of 500 µm.

HIGHLIGHTS

- ▮ Despite the inclement weather (during which work came to a halt), Duratec successfully completed the project on time and under budget ensuring no unscheduled downtime for our client.



IMAGES (FROM TOP TO BOTTOM)

- ▮ Overview of reclaimer with encapsulation.
- ▮ Structural steel abrasive blasted.
- ▮ Completed coatings.