

CD1C Fixed Asset Closure

RIO TINTO

Unique Attributes

- 2026 Civil Contractors Federation WA Earth Awards winner ($10-30M)
- Integrated demolition, civil and rehabilitation works program in remote region of The Pilbara in Western Australia
- Induced collapse and mechanical demolition methodologies employed for a variety of industrial structures - Car Dumper 1; CO1 Conveyor; Dust Collector 07
- Construction of a redesigned rail access road to improve drainage and site functionality

Key Challenges

- Programming and sequencing of works to accommodate remote location, including Comprehensive Level 2 Risk Assessments for all demolition activities and delayed approvals for contaminated soil
- Innovative technical solutions to overcome complex challenges, including electrical disconnections during a restricted shutdown window, the controlled (induced collapse) felling of Dust Collector 07, and the safe dismantling of the CO1 conveyor within a confined tunnel environment

Project Statistics

>30,000 TOTAL WORKHOURS	**>7,600M3** GROUT PLACEMENT	**1,500M3** CONTAMINATED SPOIL
14 DAYS CONTINUOUS BACKFILLING	**15,000M2** REHABILITATED AREA	**7,448M3** CLSM PLACED
37M UNDERGROUND VAULT DEPTH	**>1,000** HEAVY VEHICLE MOVEMENTS	**0.00** TRIFR / LTIFR

SITE ESTABLISHMENT · IMPACTED SOIL · MECHANICAL DEMOLITION · INDUCED COLLAPSE · HOT WORKS · ELEVATED WORK PLATFORMS · 3D PARTY ENGINEERED MODELLING · 3RD PARTY ENGINEERING · BULK EARTHWORKS · BACKFILLING & COMPACTION · STEEL RECYCLING · ENVIRO CONTROLS & MONITORING

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