

Ulan West Boxcut Services Infrastructure



Location

Mudgee, New South Wales

Client

GlencoreXstrata

Commencement Date

August 2012

Completion Date

September 2013

Contract Value

\$16.5 million

BMD's scope of work increased productivity of the mine by relocating supplies and machinery closer to the mine's four underground portals.

Overview

BMD was engaged to design and construct a maintenance and storage facility inside the existing Ulan West Boxcut underground mine in Mudgee.

Project Scope

The facility included four general storage areas, a machinery parking area, a service bay, bulk liquid storage area, material storage bunker, heavy vehicle wash bay and dewatering system. These areas required the installation of pumps, underground and above ground services, storage tanks and various packages of instrumentation and equipment. Major scope items included:

- 960m² of Store A and 360m² of Store B storage covered areas;
- Service bay including two inspection pits each fitted with 1.5 tonne jib cranes and hydronic floor heating system, three hose reel stands with compressed air, potable water, engine oil, transmission oil, coolant, hydraulic oil, waste oil disposal and diesel, air conditioned offices and a hot work bay;
- Prefabricated switchroom, three phase and single phase power distributions and five 25 metre light poles; and
- Bulk Liquid Storage Area including 50,000 litre diesel tank, five 10,000 litre oil storage tanks, 35,000 litre concentrate tank, 25,000 litre mixed emulsion tank, and all pumping, transfer piping and dispensing systems.

Outcomes

The project achieved an excellent safety record with zero LTIs recorded.

During construction, coal trucks from an adjacent work site were being directed through the project. To manage this, BMD developed a strict Traffic Management Plan and ensured consistent radio communication for the safety of all workers.

The project team implemented initiatives to protect the environment including erosion control and dust management. Erosion control was essential as the site sloped in the direction of a capturing dam. BMD mitigated dust on site by successfully employing a water dampening system.

In support of the local community, the project team held fundraising events and purchased a number of mobility scooters with the donations.