

**COPPABELLA COAL MINE
EROSION AND SEDIMENT CONTROL (ESC) FOR HIGH-
WIRE ROAD, EAST PIT DRAINAGE AREA**

August 2016

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1 Introduction

The High-wire Road, East Pit Drainage Area (Project) Erosion and Sediment Control Implementation Plan was submitted by Coppabella Mine, to the Administrating Authority on 26th October 2015.

The following report provides evidence demonstrating the completion of these key activities.

2 Completion Report

The Project's ESC Implementation Plan is shown in Figure 1. The completed ESC works are shown in Figure 2, thereby demonstrating the completion of the Project's ESC Implantation Plan.

2.1 High Wire Road East Pit Drainage Area

The ESC's for this area consist of rehabilitating the area including, topsoil and rip seeding and the installation of drainage including contour, spine and sediment traps.

Erosion Controls

- Reshaped slopes have been pushed to 1:7. Where available Permian capping was utilised.
- Slopes have been topsoiled, ripped and seeded.
- Vegetation has established over the landform

Drainage Controls

- Contour banks were installed at pre-determined intervals at a 1% grade to direct water flow towards rock verges which enter into constructed spine drains.
- 10m Permian rock lined verges capture water flow from the east or west and direct it into 8m wide spine drains.
- The contour drains will be removed periodically when vegetation growth is established.

Sediment Controls

- Sediment fences have been installed every 50m of the spine drains and have been rock mulched to anchor the base. (Plate 1)
- Two sediment basins have been installed at the base of the spine drains, with rock lined spillways. Rock rip rap has been installed in sections of the drains to further slow the migration of the water off site. (Plate 2)
- Sediment basins will be monitored pre and post wet season with maintenance works occurring when required.

3 Inspection and Maintenance Plan

The project will be inspected bi-annual, with a major inspection completed post wet season to highlight any required remediation works for that year.  minor inspection plan will then be completed pre wet season ensuring that any identified remediation requirements have been completed. Actions from inspections will enter the Peabody action tracking system.

3.1 Major Maintenance Inspection

A major maintenance inspection will be conducted post wet season (May), to ensure the structural integrity has been maintained and adequate sediment capacity is present.

- Contour banks, rock verges and spine drains inspected for tunnel and rill erosion, remediated as required.
- Sediment basins will be de-silted once loading has reached approximately $\frac{3}{4}$ along the length of the trap.
- Rip rap remains in place and operational, to be replaced where necessary.

3.2 Minor Maintenance Inspection

A minor maintenance inspection will be completed pre wet season (November) or on completion of any actions from the Major inspection. The minor inspection will allow time for any minor remediation works to be completed prior to the wet season.



Figure 1 – Implementation Plan

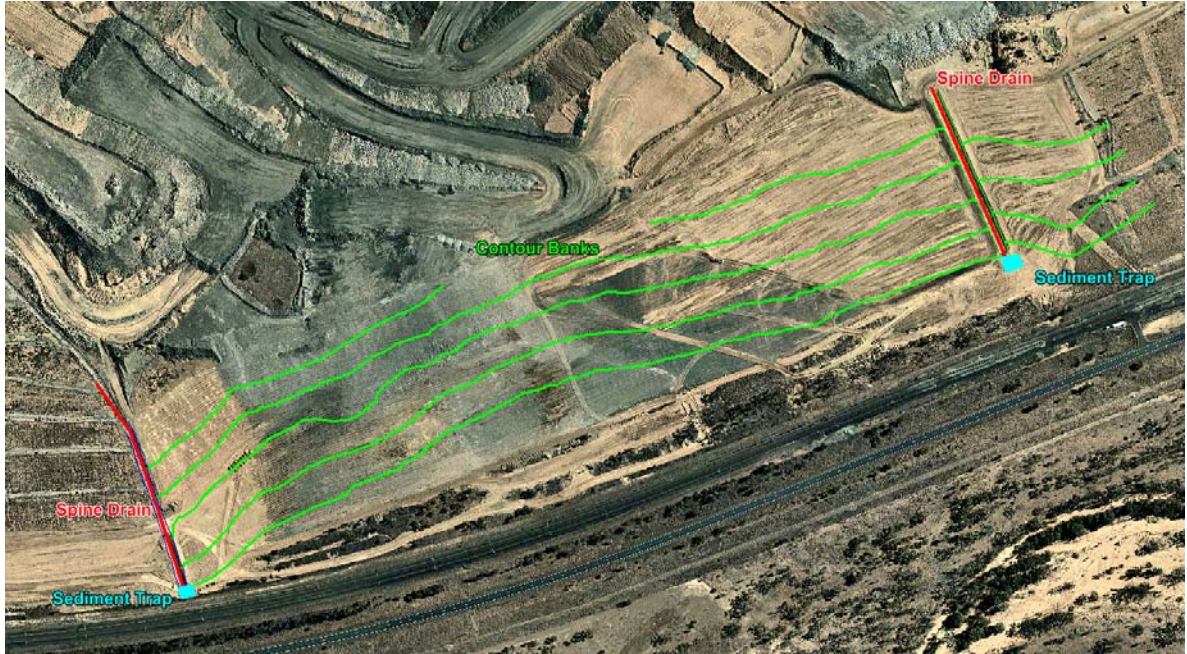
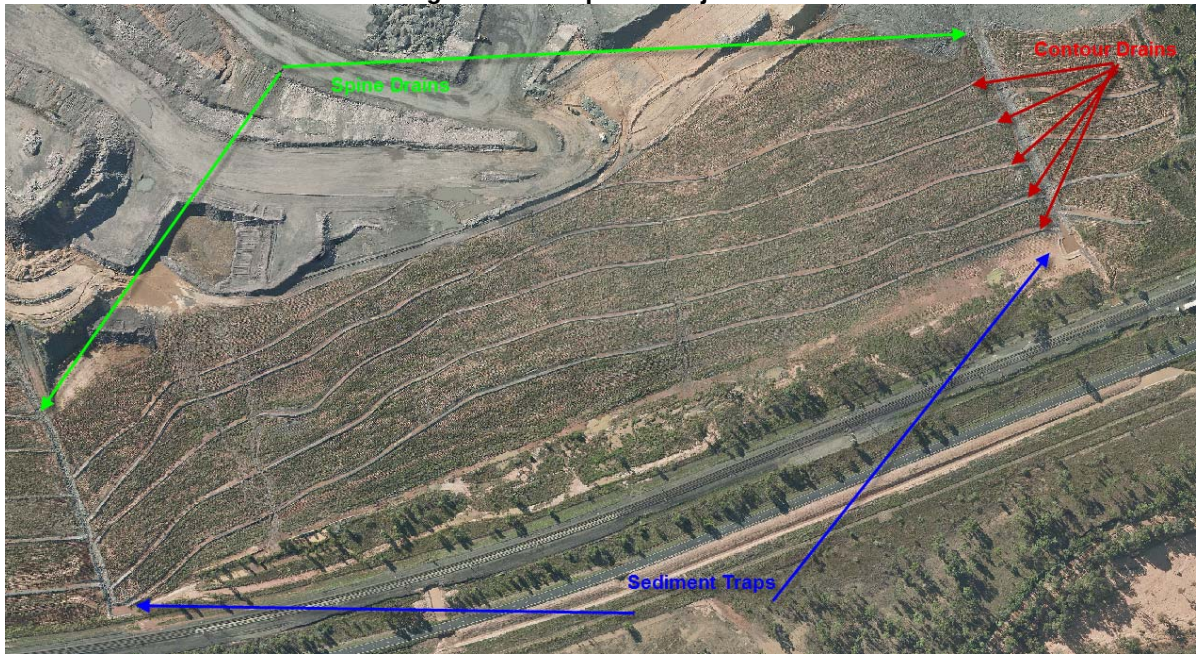


Figure 2 – Completed Project



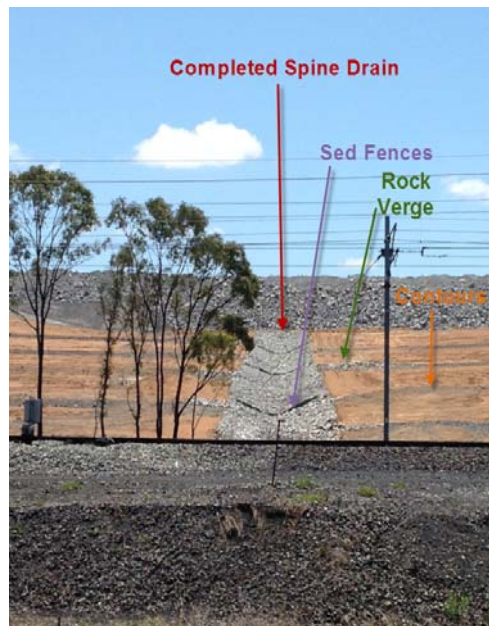


Plate 1 – Spine drain, with rock verges

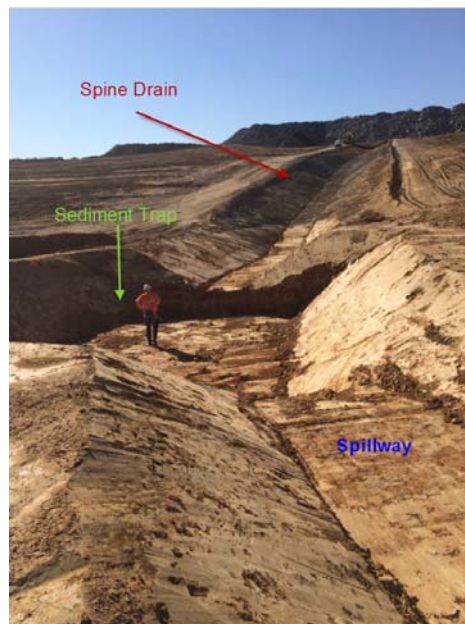


Plate 2: Sediment basin and spine drain (pre rock armour)