

COPPABELLA COAL MINE
CHPP AREA

EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MONITORING PLAN
March 2015

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1 Implementation Plan

This area specific Erosion and Sediment Control (ESC) implementation plan has been developed in accordance with the Coppabella Erosion and Sediment Control Plan. This ESC implementation plan has been divided into 3 key areas (Figure 1).

The ESC plan is based on a combination of erosion, sediment and drainage controls. The primary control to ensure the movement of sediment off lease is through erosion management and there is increased delineation between ESC and Worked water.

Implementation time line;

- In line with TEP Completion date of **31st December 2015**.

1.1 Area 1

Area 1 (Figure 2) is located west of the CDA expansions stage 1 area. The area has been topsoil stripped to remove the pea gravel resource on the projects road network.

Erosion Controls

- The area will be used to source pea gravel. A number of large shallow burrows will be constructed in the area which will act as initial sediment basins.

Drainage Controls

- A drain around the perimeter of the area will be constructed to focus the water through the sediment controls.

Sediment Controls

- A Series of rock checks will be installed along the drain lines to slow and trap sediment before passing through grass filters.

1.2 Area 2

Area 2 (Figure 3) is located adjacent to the Return water dam. The small ESCP catchment area is predominantly dominated by an access road

Erosion Controls

- The road way has been Permian rocked capped for all weather access

Drainage Controls

- A water diversions drain on the CDA ramp is required to divert water from the CDA catchment into the worked water system.

Sediment Controls

- A small sediment sump and spine drain has been installed to the East of the Worked Water dam. Capturing sediment and slowing the velocity of the water prior it entry into the South Arm Diversion
- Pair of sediment sumps have been installed in 30 Mile Creek to capture the sediment from the low level crossing.

1.3 Area 3

Area 3 (Figure 4) is located around the CHPP building and is predominantly focused around the segregation of worked and ESCP water.

Erosion Controls

- The topsoil stockpile has been seeded
- Worked water catchments have been sheeted and drain into worked water structure and the catchment minimised.

Drainage Controls

- The rail loop catchment will be focused through the Northern culvert via the construction of a drain.
- The existing erosion scour along the north of the Laydown area will be formed into a drain

Sediment Controls

- A Series of rock checks will be installed along the drain lines to slow velocity and trap sediment.

2 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. A 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.

2.1 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.

- Area 1:
 - o Drains and Rock Checks inspected and desilted/ repaired where required.
- Area 2:
 - o Sediment trap will be inspected and desilted.
- Area 3:
 - o Drains and Rock Checks inspected and desilted/ repaired where required.

2.2 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 – CHPP ESCP AREA's

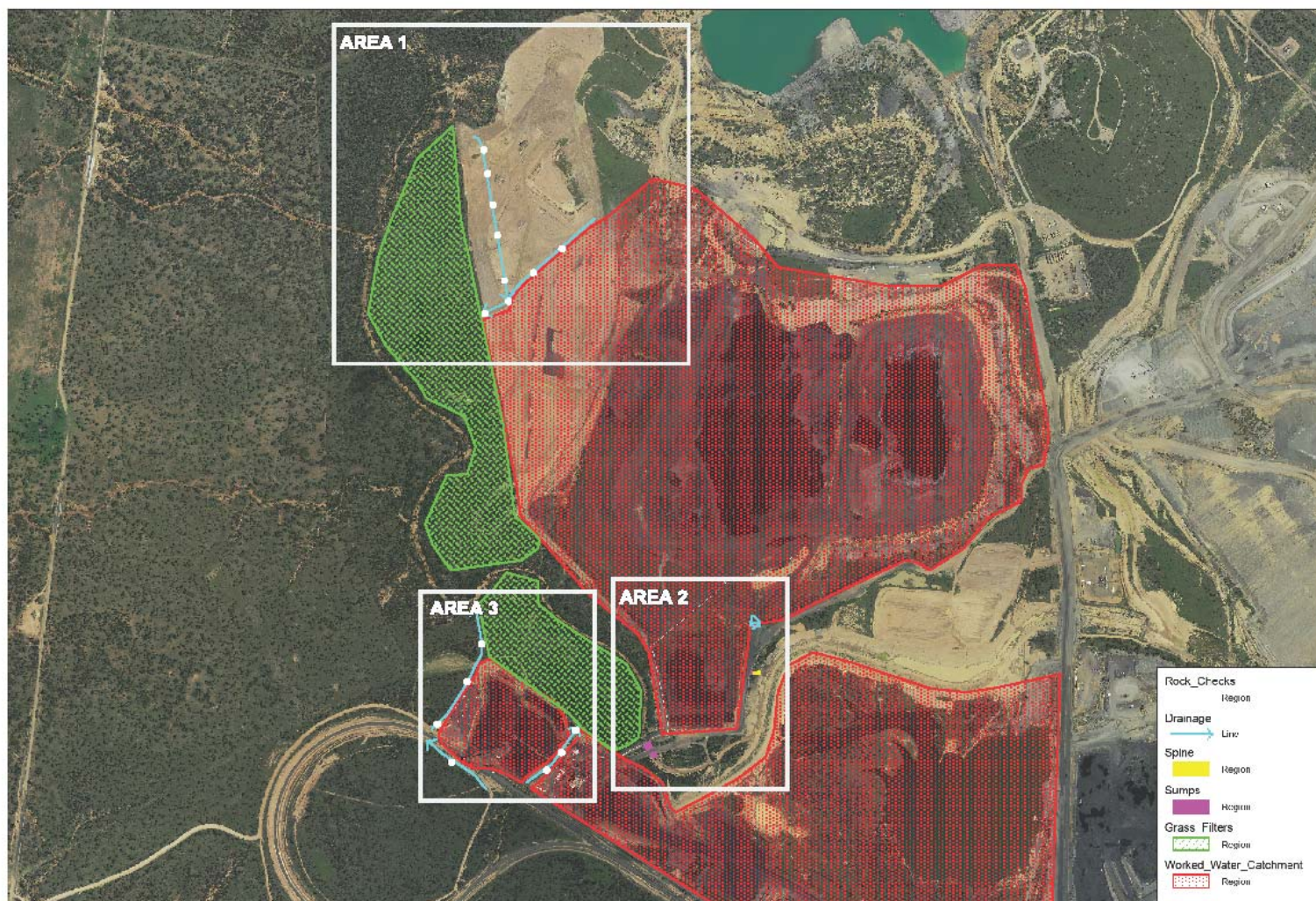


Figure 2 – AREA 1 – CHPP ESCP

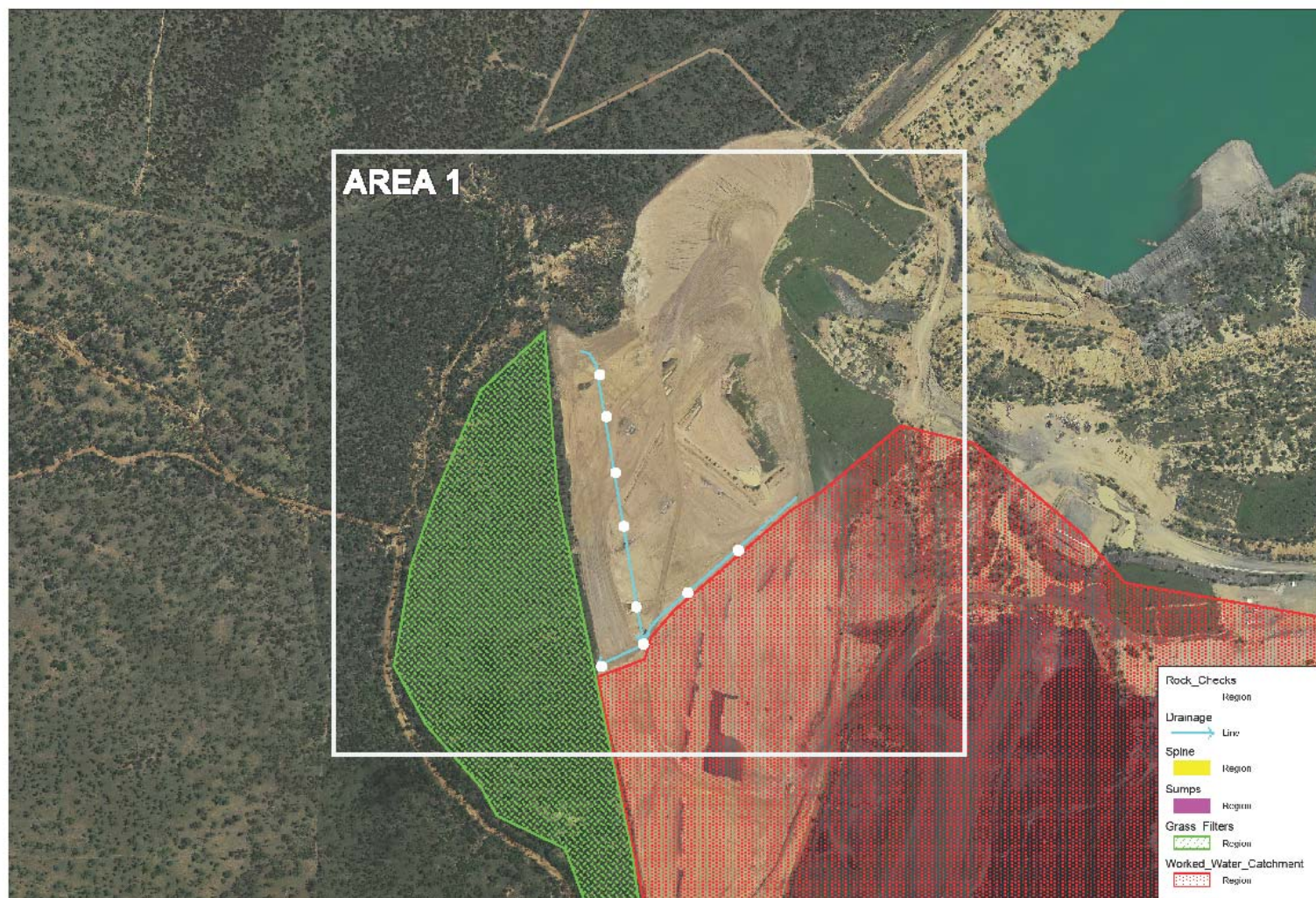


Figure 2 – AREA 2 – CHPP ESCP

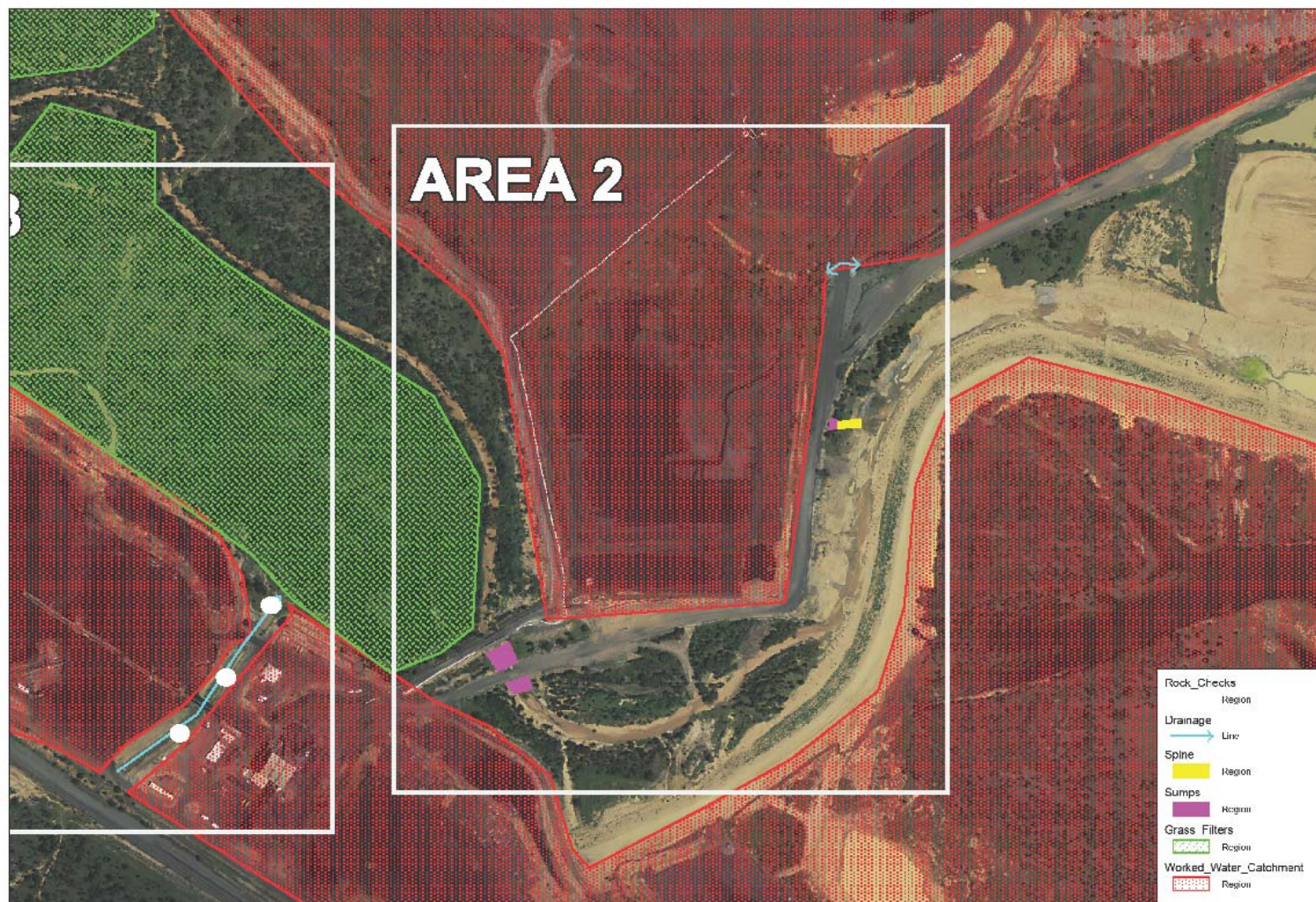


Figure 4 – AREA 3 – CHPP ESCP

