



Thalanga Copper Mines Pty Ltd

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Locked Bag 1
Queenstown
Tasmania 7467

Mr Laura Rehn
Environmental Operations
Northern Region
Environmental Protection Agency
PO Box 5391
Townsville Qld 4810

27 October 2013

Dear Ms Rehn

Re: Transitional Environment Program (TEP) MAN17020

In accordance with the commitments made in the TEP please accept this report on the earthworks program recently completed at the Highway Reward mine.

A site inspection conducted by JV personnel before at the commencement of the TEP identified the following issues which may have been contributing to contamination of offsite water streams:

1. Bare patches on the waste rock dumps. Reddish yellow colouring of surfaces in these patches may have indicated exposed sulphides. These are circled in red in Figure 1.
2. Eroded drop structures which also contained exposed sulphides. These are circled in blue in Figure 1.
3. Remnant areas on the site which contained reddish yellow coloured rocks again indicating the possible exposure of sulphide materials. These are circled in green in Figure 1.
4. Areas on the western side of the Gregory Development Road contained material indicative of sulphides. This appeared to have spilled from haul trucks leaving the site during its operational days. This area is circled in yellow in Figure 1.

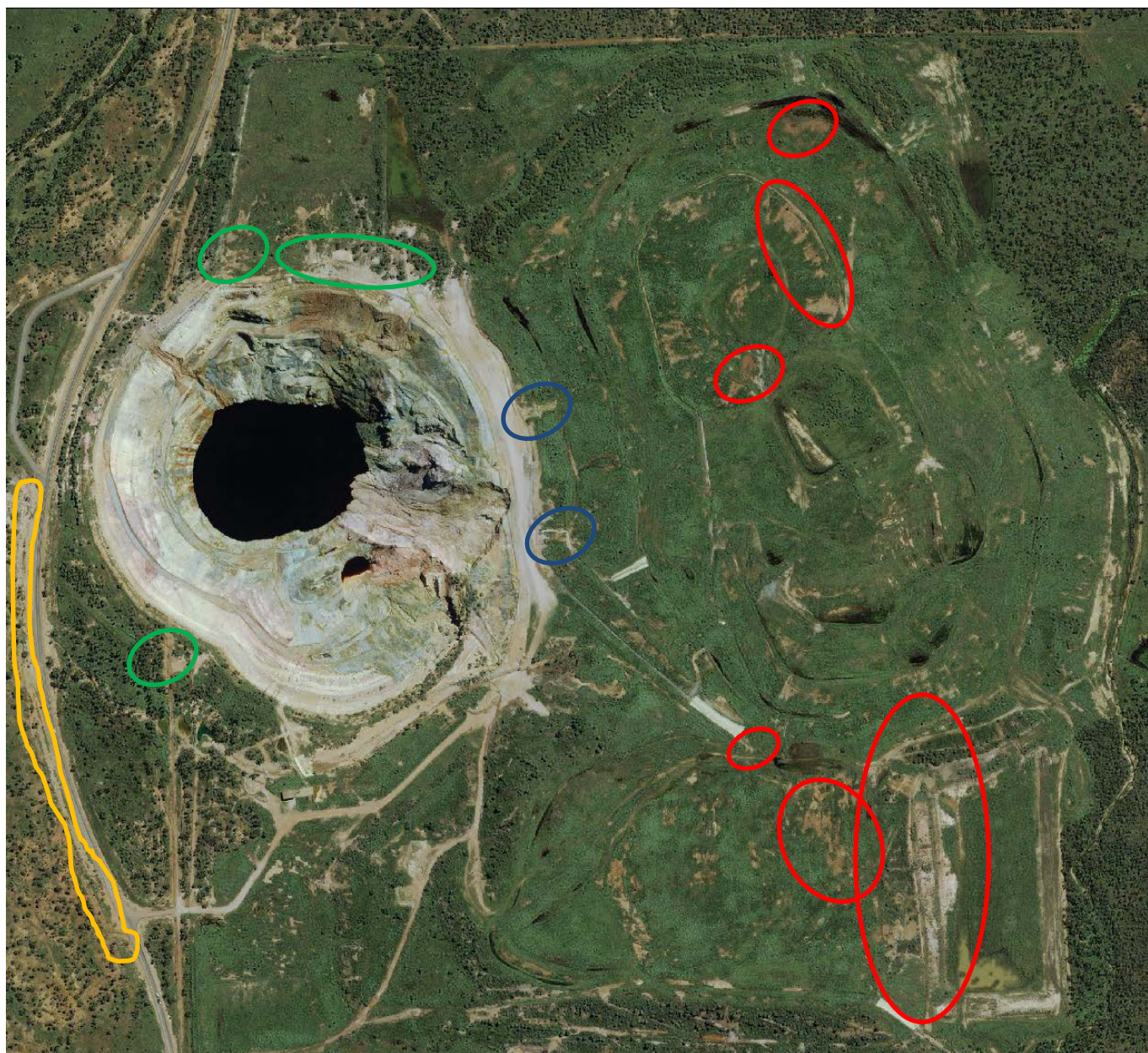
Item 1 areas were repaired by covering bare patches with 500 mm compacted clay cap (compacted to at least 10^{-7} m/s permeability) plus 100 mm topsoil over the clay capping. Item 2 areas were repaired by capping exposed sulphides with 500 mm clay as per item 1, removing current scours to the invert of the spillway, supply and installation of scour rock, plus the removal of oversized rocks and reinstatement with 100mm rock compacted in place to reduce flow velocity.

Item 3 areas were capped to the same specifications as Item 1 areas.

Item 4 was remediated by scrapping the roadside to a depth of approximately 100mm and removal of such to the pit (inside the pit drainage perimeter).

The works are located in Figure 1 below.

Figure 1 Aerial photo circe 2010.



Photos of the completed earthworks are shown below. Plates 1 – 6 show capped bare patches. Plates 7 – 8 are capped exposed sulphidic areas. Plates 9 – 10 are the repaired drop structures.

Plate 1 Above revetment mattress



Plate 2 NE Corner Highway dump



Plate 3 Eastern side Highway Dump



Plate 4 Old dewatering dam walls



Plate 5 Junction Reward and Highway dumps



Plate 6 Top of Highway dump



Plate 7 NW of pit void



Plate 8 N of Pit Void



Plate 9 N drop structure



Plate 10 S drop Structure





A proposal to re-vegetate the newly capped areas has been sought. The JV hopes to complete this before December.

Please feel free to call me if you have any questions.

Yours sincerely

A handwritten signature in black ink, consisting of a stylized 'S' followed by a horizontal line.

Stephen Kent
For Thalanga Copper Mines JV
Ph 07 5439 7877 / 0417 574 799