

# EXPLORATION COMMENCING ON PRIORITY COPPER / GOLD TARGETS

**ASX Announcement** 

9th July 2013

## **HIGHLIGHTS**

- Field sampling to begin in July targeting three high priority prospects within the Speewah Dome at Greys-Hayden-Eiffler (previous reported surface results of 27.5% Copper and 4.97g/t Gold), Todhunter (previous reported surface results of 7.3g/t Gold and 3.0% Copper), and the new untested King-Central prospect (see Figure 1 below);
- 3D geophysical modelling has highlighted the potential for Gold / Copper mineralisation along north-south and cross linking faults at these prospects, some located under alluvial cover.
- Initial RAB drilling planned for 2013 on the highest priority defined soil targets.

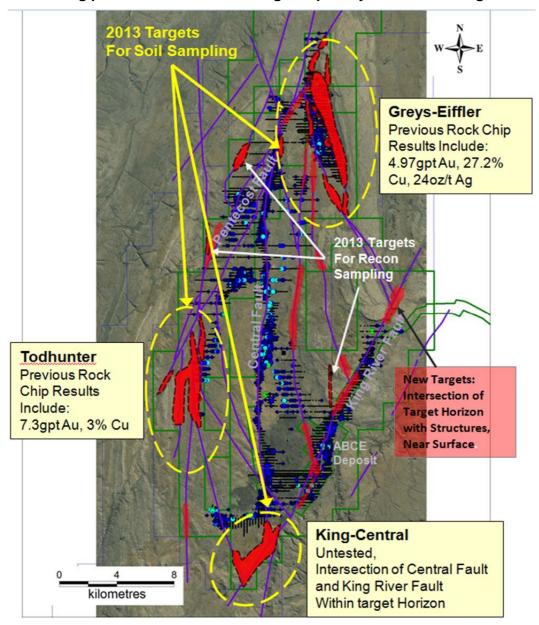


Figure 1: Location of three high priority targets with anomalous Copper and Gold.



## COPPER / GOLD PROJECT

King River Copper Limited ("King River" or "the Company") (ASX: KRC) is pleased to advise shareholders that a field programme is scheduled to commence later in July. The initial focus of the field work will involve soil and rock sampling of three high priority Copper / Gold target areas – Grey-Hayden-Eiffler, Todhunter and King-Central. These target areas were selected following an independent technical review of all previous exploration databases which highlighted the potential for Copper / Gold mineralization within the Speewah Dome, specifically at the intersection of faults with an identified litho-structural horizon (sediment-felsic granophyre contact), which forms a favourable site for hydrothermal Copper / Gold mineralisation.

## **GREYS – HAYDEN AND EIFFLER LOCATIONS**

The Grey-Hayden and Eiffler prospect area is located in the northern part of the Speewah Dome (Figures 1 and 2), and is one of three high priority exploration targets that were confirmed by field sampling at the end of last year (ASX announcement 15 January 2013). Previously reported surface samples at the Grey-Hayden and Eiffler prospects gave values up to 27.5% Copper (Cu), 25ozs/tonne Silver (Ag) and 4.95 g/tonne Gold (Au) in different surface samples.

King River has built a comprehensive dataset at the Grey-Hayden and Eiffler prospects, comprising airborne magnetics, ground based gravity, SAM and IP surveys, surface sampling (soils and rock chips), and some drilling. Reprocessing of the geophysical datasets and its integration with the geochemical and geological data has now been completed, and several high priority Gold / Copper targets have been identified associated with the intersection of inferred faults with the target horizon at the sediment-granophyre contact (Figure 2), namely:

- 1. Testing of north, east and south of the Greys prospect, particularly in areas at the intersection of minor and major structures. These areas are located beneath alluvial cover, and has either not been soil sampled before or the alluvial cover has made this sampling method ineffective.
- 2. A VTEM conductor, identified from recent geophysical data reprocessing, located on one of the main structures at Greys (Grey Fault) proximal to the target horizon, beneath alluvial cover.
- 3. Coincident Gold and Arsenic in soil anomalism north of Greys prospect and close to the Pentecost Fault Zone.
- 4. Testing of the target horizon near faults beneath the Eiffler Hill (sandstone cover rocks) and along the major fault delimiting the western edge of the Eiffler Hill.



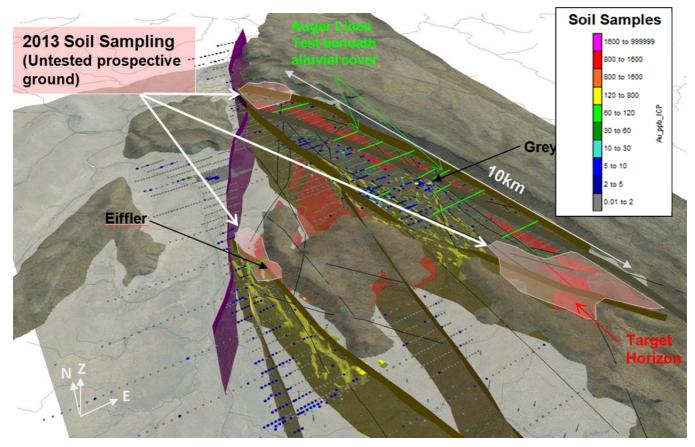


Figure 2: 3D view of Greys-Hayden and Eiffler Prospects looking north east, showing soil geochemistry, isosurfaces of recently re-processed high resolution SAM electromagnetic anomalies, and interpreted faults and targets on an aerial photograph-terrain model image.

### **TODHUNTER LOCATION**

A high priority Gold / Copper target has been identified at Todhunter (Figure 3) as a result of 2D / 3D modelling of airborne magnetics, topography, surface geochemical results and geology (ASX announcement 15 March 2013). This work delineated a 2.5 kilometre long fault with the potential for several Gold and Copper mineralised targets. Previously reported surface rock chip sampling at one locality along the Todhunter fault has identified a 90 metre long zone of Gold and Copper mineralisation assaying 4.9 - 7.3g/t Gold (Au) with from 0.7 - 3.0% Copper (Cu). This zone is untested to the north and south, and several other similar north south faults can be seen in the re-processed high resolution magnetic imagery.



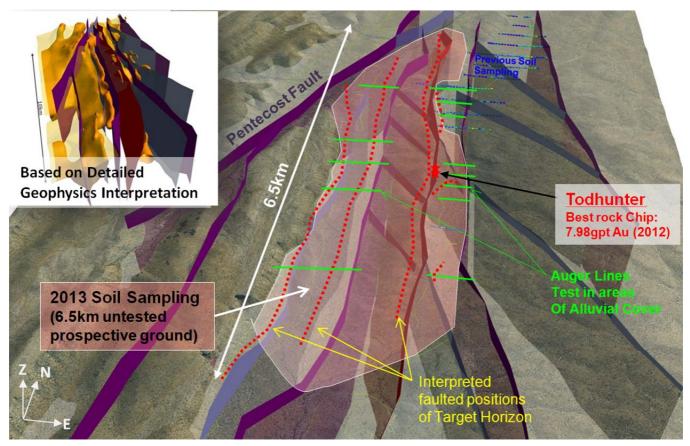


Figure 3: 3D view of Todhunter Prospect looking north, showing soil geochemistry, isosurfaces of recently re-processed high resolution SAM electromagnetic anomalies, and interpreted faults and targets on an aerial photograph-terrain model image.

#### KING - CENTRAL LOCATION

The new King-Central Prospect is the third high priority Copper / Gold target, located in the southern part of the Speewah Dome and has not been previously tested. The proposed sampling area covers the intersection of the King River Fault, host to the ABCE deposit (fluorite, Cu, Au mineralisation), and the Central Fault (a major structure with extensive alteration and significant Cu, Pb results from previous rock chip sampling) in proximity to the target horizon.

### FIELD PROGRAMMES FOR 2013

All three target areas will be tested by soil sampling and mapping scheduled to start in the last week of July, with a preparatory phase of reconnaissance and rock chip sampling of untested targets scheduled to start next week (King-Central and 3 other new targets).



Over 2,000 soil samples are planned with a nearest grid spacing of 200m by 50m sample spacing over select areas (infill grids will be completed over areas showing promise based on geology or 'in field' hand held Niton XRF results):

Greys – Eiffler: 1000 soil samples
Todhunter: 950 soil samples
King-Central: 550 soil samples

Results from the program will provide detailed information over multiple targets that can be prioritised for drill testing in 2013/4.

Targeted RAB drilling is planned over the most encouraging results from the current programme.

#### **Competent Persons Statement**

The information in this report that relates to Exploration Results, Minerals Resources and Ore Resources is based on information compiled by Ken Rogers who is a Member of the Australian Institute of Geoscientists. Mr Rogers, Chief Geologist of King River Copper Limited, compiled the technical aspects of this report relating to the Speewah Project and content of this release. Mr Rogers has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that is being reported on to qualify as a Competent Person as defined in the 2004 Edition of the Australasian Code for Reporting of Mineral Resources and Ore Reserves (the JORC Code). Mr Rogers consents to the inclusion in the report of the matters in the form and context in which it appears.



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