



ASX ANNOUNCEMENT

14th February, 2013

Cooperinna Project - Exploration Update Musgrave Project, SA

- **Exploration has recommenced within the Cooperinna Block of EL4587**
- **Drilling underway to test high-quality VTEM targets**
- **Vacuum drilling and ground EM surveys to be undertaken to better define diamond drill targets**

PepinNini Minerals is pleased to announce that field exploration activity has recommenced within the Cooperinna Block of EL4587. Planned exploration activities, which include ground electromagnetic (EM) surveys, infill vacuum drilling and diamond drilling, will enable PepinNini to refine and test a number of priority VTEM targets within the western Cooperinna Project area. The work will contribute to the Company's ongoing search for magmatic Nickel-Copper sulphide deposits within the Musgrave Province of South Australia.

At the conclusion of the 2012 field program a diamond hole DD12COP015 was completed to a depth of 252m at the Yagen prospect to test coincident electromagnetic conductivity features and anomalous Nickel(Ni)-Copper(Cu) soil geochemistry (ASX release 3rd December, 2012). The drill hole intersected 8.2m of weakly disseminated sulphide from 108m depth, 26.6m of weakly disseminated sulphide from 133.7m depth, and 9m of disseminated sulphide from 160.0m depth. The intercepts also include a discrete band of remobilised massive sulphide (Figure 1) from 162.5m depth. The sulphide is comprised predominantly of pyrrhotite (Fe-sulphide) with lesser chalcopyrite (Cu-sulphide). Multi-element geochemical analyses of the drill core samples have returned results of up to 658ppm Cu and 763ppm Ni.

PepinNini has commenced an infill vacuum drilling program over current priority-1 VTEM targets in order to improve the company's understanding of the subsurface geology and multi-element geochemistry, and aid target prioritisation for future drill testing.

Planned ground electro-magnetic surveying activities to better locate the EM anomalies will also commence following revised ground access approval confirmations.



Figure 1: DD12COP015, Vein of massive pyrrhotite cross-cutting the fabric of a felsic gneiss (162.5m depth)

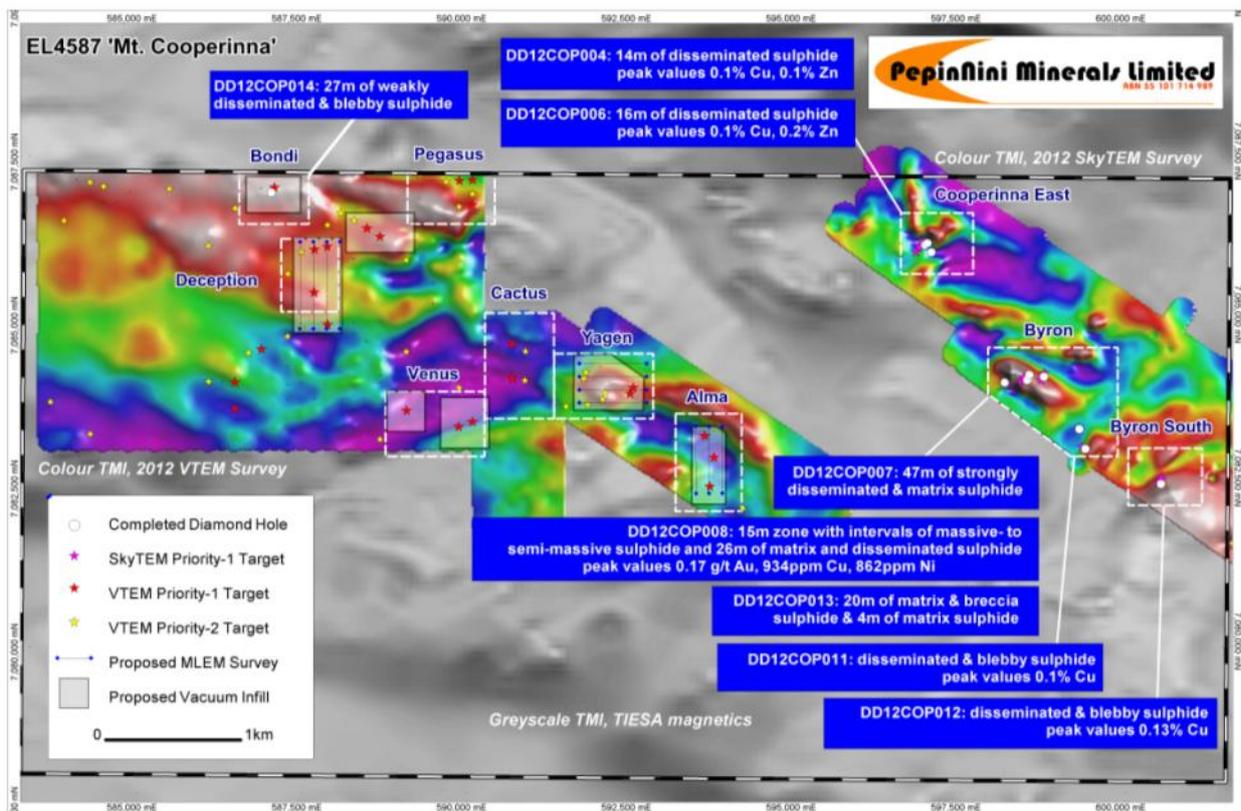


Figure 2: Location plan of PepinNini prospects within the Cooperinna block of EL4587. Visual intercepts and peak assay values are provided for selected diamond boreholes

The information in this report that relates to Exploration Results is based on information compiled by Norman Kennedy BSc MAusIMM. Norman Kennedy is the Chairman and Managing Director of PepinNini Minerals Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Norman Kennedy consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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Note: Additional information on PepinNini Minerals Limited can be found on the website: www.pepinnini.com.au