

## BIBLIOGRAPHIC DATA SHEET

**Project Name:** Calingiri Diamond

**Combined Reporting Number:** n/a

**Tenement Numbers:** E70/2788

**Tenement Operator:** Quadrio Resources Pty Ltd

**Tenement Holder:** Quadrio Resources Pty Ltd

**Report Type:** Final Report - EIS

**Report Title:** Calingiri Diamond EIS – FINAL REPORT

**Report Period:** From 27 August 2014 to 30 October 2014

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**Date:** December 2014

**1:250 000 map sheet:** Moora SH50-10 and Perth SH50-14 1:250,000

**1:100 000 map sheet:** Wongan 2236 and Goomalling 2235 1:100,000

**Target Commodity:** Cu, Mo, Ag & Au

**Keywords:** Diamond Drilling

**Prospects Drilled** ‘Dasher’ & ‘Bindi’

**List of Assays:** **Diamond Drilling:**

**ME-MS61** - Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr.

**Au-AA24** – Au

**ME-ICP06** – SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, CaO, MgO, Na<sub>2</sub>O, K<sub>2</sub>O, Cr<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, MnO, P<sub>2</sub>O<sub>5</sub>, SrO, BaO

## **ABSTRACT:**

### **Location:**

The drilling was located within the Southwest Mineral Field, approximately 15 km SW of the Wongan Hills town site.

### **Geology:**

The Dasher and Bindi prospects lie within Quadrio's identified 30km regional Cu trend, and display significant Cu-Mo mineralisation which forms a combined exploration target of 180-330Mt grading 0.37-0.44% CuEq which incorporates 70-80ppm Mo and 1.5-1.7ppm Ag. A garnet rich-gneissic rock is the host of mineralisation at both prospects, which are located approximately 5km apart.

Geologically, the Bindi Prospect consists of stacked lenses of mafic schist and intrusive granitoid sills in the hanging wall, the mineralised garnet gneiss dips approximately 40 degrees to the west/west-north-west with massive granite/granodiorite interpreted in the footwall.

The Dasher mineralisation is bound by granite/granodiorite in the hanging wall and footwall and dips approximately 45 degrees to the east. Both prospects host large tonnages mineralisation, which is continuous for >1km in strike and remains unconstrained at depth. The width of the mineralised units generally varies from 50-150m at Dasher and 100-150m at Bindi.

### **Work done:**

#### **Results:**

The two deep diamond holes drilled into the Dasher Prospect were successful in intersecting the mineralised gneissic body at depth. Best intersections include 100m @ 0.30 % Cu in 14CADD001 and 248.1m @ 0.31 % Cu in 12CADD001.

Mineralisation, as previously seen, consists of coarse grained chalcopyrite with associated pyrrhotite, molybdenite, pyrite and magnetite. Tenor of mineralisation is consistent down dip and remains open at depth.

Oriented drill core enabled detailed structural logging of the core. Gneissic banding (former sedimentary bedding?) in hole 14CADD001 is consistent in orientation and trends on average 330 degrees NW, dipping 55 degrees to the NE.

Hangingwall and footwall granitoid whole rock results show chemistries consistent with silica rich granites.

#### **Conclusions:**

The recent "Calingiri Diamond" drilling program has been successful in extending the Dasher mineralised system to >500m vertical depth. Block modelling from the recent diamond results (modelled down to 450m vertical depth) has increased the Dasher Exploration Target by approximately 40% which now stands at 95-175MT grading 0.38-0.44% copper equivalent. This combined with the nearby Bindi Exploration target (85-155MT @ 0.37-0.43% copper equivalent), the Calingiri project now has a combined Exploration Target of **180-330MT @ 0.37-0.44% copper equivalent.**

This positive result further supports Quadrio's belief that the Calingiri Project can host large tonnage, moderate grade copper + molybdenum systems which are economically viable through open pit mining. Furthermore, these diamond drill holes have allowed Quadrio to refine and improve the Dasher and Bindi geological models.

Quadrio now plans to explore for additional Cu-Mo systems within the local project area, with drilling scheduled for early 2015 starting at the Ninan prospect. The definition of another mineralised system of a similar size to the Dasher and/or Bindi system would be a significant boost for the economic viability of the project moving forward to production.