

# **WILLIAMSFORD EL 48/2011 ANNUAL REPORT**

**FOR THE PERIOD ENDING 3<sup>rd</sup> JULY 2016**

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**Author:** *M. Thompson and K. Denwer*

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**Submitted By:**

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## **1 SUMMARY**

Work completed during the reporting period was predominantly desktop review of all data and refinement of results from 30 soil samples and 30 rock chips collected during 2014/15 from this tenement. Follow up soil grids have been designed over an anomalous response (Jupiter West). The anomalous zone is indicated by TI/K ratio suggestive of TI bearing pyrite which is promising to be a useful indicator of Rosebery type mineralisation. Approximately 14km of track cutting has been submitted for approval. Infill soil and rock sampling is planned at 100m by 400m as an initial infilling pass EW map grid between 5370400 and 5368000 North to South.

## **2 INTRODUCTION**

EL 48/2011 Williamsford conjoins with the western edge of the Rosebery Mine lease. The tenement is located just to the west of the of Rosebery township (Figure 1). Access to the project area is from the Murchison Highway via the Williamsford road and various tracks. EL48/2011 is coincident with state forest under management of Forestry Tasmania and administered under the Forestry Act (45 of 1998). EL 48/2011 is a 23.5 km<sup>2</sup> Exploration Licence the tenement was granted on the 3rd July August 2012 for a 5-year period.

Recent diamond drilling by MMG to the north of the Rosebery Mine Lease has intersected encouraging mineralisation west of the Rosebery Fault. These results have subsequently led to a re-appraisal of the prospectively for VMS style deposits west of the Rosebery Fault. A new prospective package of rocks now lies between the Marionoak and Rosebery Faults, the majority of which is contained within EL 48/2011.

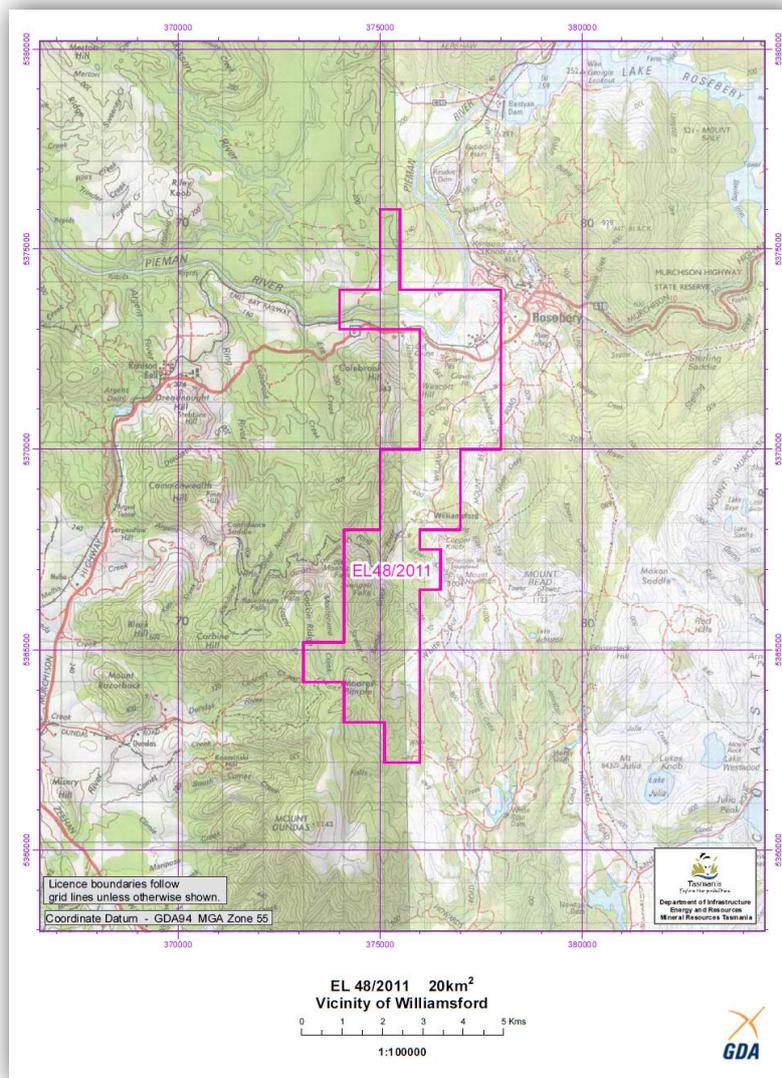


Figure 1: Location of EL 48/2011 Williamsford

### 3 GEOLOGY

The geology of EL 48/2011 is dominated by two major structures – the Rosebery Fault and Marionoak Fault. The intervening rocks – are referred to as the Rosebery Group. The “Rosebery Group” west of the Rosebery fault includes rock packages that have previously been correlated with the White Spur Formation, the Owen Conglomerate, the neoproterozoic Cleveland-Waratah association are of uncertain affinities (e.g., the Salisbury Conglomerate, the Westcott Argillite and the Natone Volcanics) and although the area has been the subject of previous studies (Campana and King, 1963; Green, 1983; Lees, 1987, Corbett and Lees, 1987, Parfrey, 1993), little work has been completed in recent years. In the western part of this area are a north-south trending, approximately 170m wide band of “Felsic Tuffs” which extend from the Pieman River, in the north and are truncated by the Rosebery Fault in the vicinity of the Jupiter Prospect, that were called the Natone Volcanics by Campana and King (1963). As described in the literature (Green, 1981; Lees, 1987, Parfrey, 1993) the Natone Volcanics are lithologically, and geochemically (Parfrey, 1993) similar to the White Spur Formation, and thus may be part of the MRV and hangingwall to the Rosebery ore position. However, more recently they have been included in the “Marine Owen Group” by Corbett (2004). Although the overall distribution of the Natone Volcanics is well defined their internal structure, contacts with enclosing units, provenance and potential correlations are poorly understood.

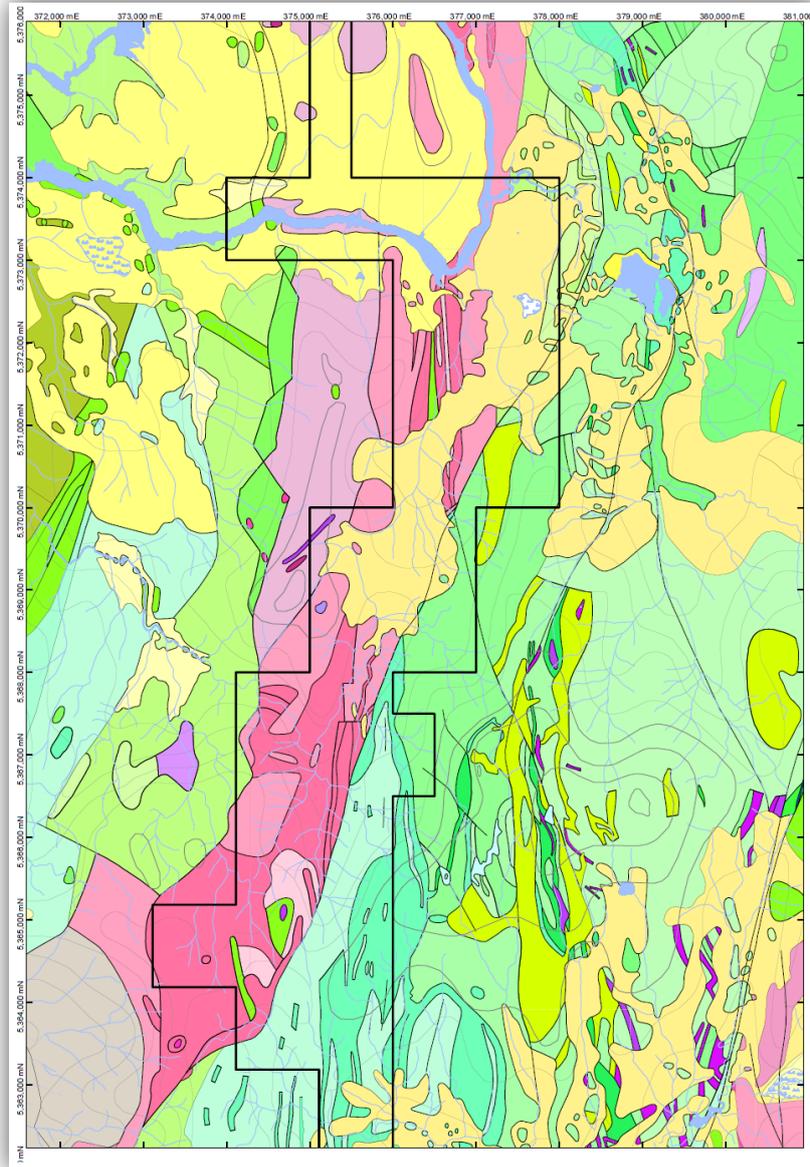


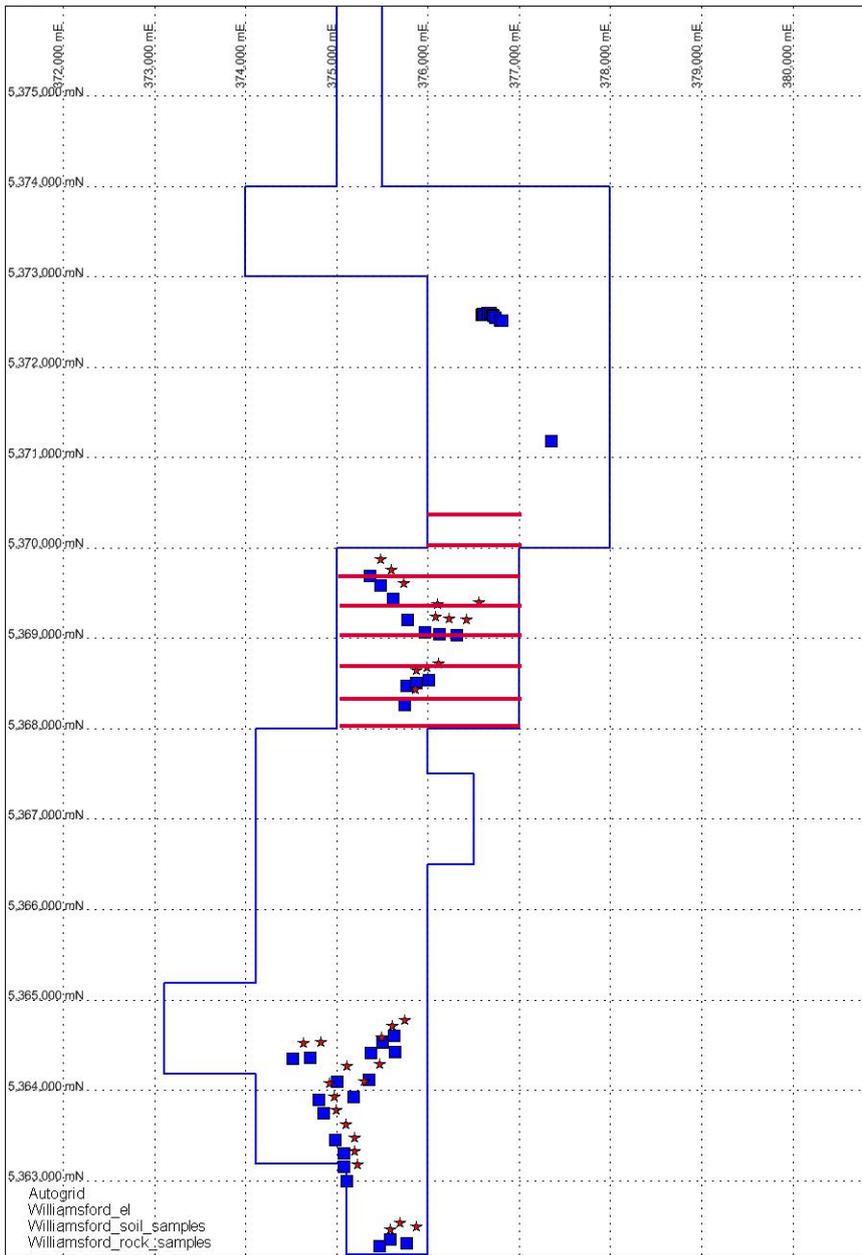
Figure 2: MRT 1:25K geology with EL 48/2011 – major pink units striking NNE, represent rocks west of the Rosebery Fault

## 4 WORK COMPLETED (YEAR 4)

### 4.1 ROCK AND SOIL SAMPLING

The soil and rock chip results from the 2014-15 program are attached as appendix 1.

Approximately 14km of track cutting has been submitted for approval but is yet to commence as at 25<sup>th</sup> May 2016. Infill soil and rock sampling is planned at 100m by 400m as an initial infilling pass EW map grid between 5370400 and 5368000 North to South. An extensive review of historic data was undertaken during the period, in an attempt to synthesize and refine the large body of historic information and interpretations into a useful tool for targeting rationale.



**Figure 3:** Location diagram for follow up Track cutting and sampling 2016/17 (red lines) over rock chips (blue squares) and soil samples (red stars) collected on the Williamsford tenement 2014 /15.

## 5 CONCLUSIONS & RECOMMENDATIONS

Work for the 2016-17 tenement year is track cutting and soil sampling with further follow up as required. A budget for follow up of anomalies of \$25,000 is proposed.

## 6 ENVIRONMENT & REHABILITATION

There were no environmental disturbances during the reporting period.

## 7 EXPENDITURE

Exploration Category	Description of Activity	Expenditure
Personnel	Review of regional soil and rock chip data. Preparatory planning, design for track cutting and work program	\$ 8,472.00
	<b>Total costs</b>	<b>\$ 8,472.00</b>

## 8 REFERENCES

Baker, W., 2013. Correlations and exploration significance of the Natone Volcanics, Rosebery Group, Western Tasmania. Unpub. BSc (Grad Dip) thesis, University of Tasmania, Hobart, 62p.

Campana, B., and King, D., 1963. Palaeozoic tectonism, sedimentation and mineralisation in West Tasmania. J. Geol. Soc. Aust. 10, 1-54.

Corbett, K.D., 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Read Volcanics belt in western and northern Tasmania. Geological Survey of Tasmania. Records 2004/03, 10p

Green, G.R., 1983. The Geological setting and formation of the Rosebery Volcanic-hosted massive sulphide orebody, Tasmania. Unpub. PhD Thesis, University of Tasmania, Hobart.

Lees, T.C., 1987. Geology and mineralisation of the Rosebery-Hercules area, Tasmania. Unpub. MSc Thesis, University of Tasmania, Hobart, 164p.

Mortensen JK; Gemmell B; McNeill AW; Friedman RM (Unpublished) High-Precision U-Pb Zircon Chronostratigraphy of the Mount Read Volcanic Belt in western Tasmania, Australia: Implications for VHMS Deposit Formation. Economic Geology.

Parfrey, O., 1993. Mesoscopic and microscopic structural evolution in the Dundas Group at Rosebery, Western Tasmania. Unpub. BSc (Hons) thesis, University of Melbourne, Melbourne, 72p.