



# ROSEWOOD MINERALS

An NT Copper and Silver Exploration Company

## PARTIAL RELINQUISHMENT REPORT

### EL33045

### ROSEWOOD PROJECT

### 24/11/22 to 23/11/24

|                        |                   |
|------------------------|-------------------|
| Title Holder:          | Rosewood Minerals |
| Operator:              | Rosewood Minerals |
| Author/Report Contact: | Peter Harris      |
| Report Date:           | 23/01/2025        |
| Target Commodity/s:    | Cu                |
| 1:100,000 Mapsheet:    | Newry 4765        |
| 1:250,000 Mapsheet:    | Waterloo SE52-03  |

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## **Abstract**

EL33045 was pegged by Rosewood in 2022 to search for Possible Cu mineralisation after the ground was dropped by Proto Resources in 2014. Proto Resources was investigating the potential for Norlisk style mineralisation within the Kalkarindji Basalt, one rock-chip sample was taken By Proto within the area in question and returned no values of significance. Proto Dropped the ground to focus on fund raising efforts elsewhere. Rosewood conducted preliminary mapping and again, only one sample was taken. Rosewood elected to drop the Northern part of EL33045 due to difficulties related NLC negotiations.

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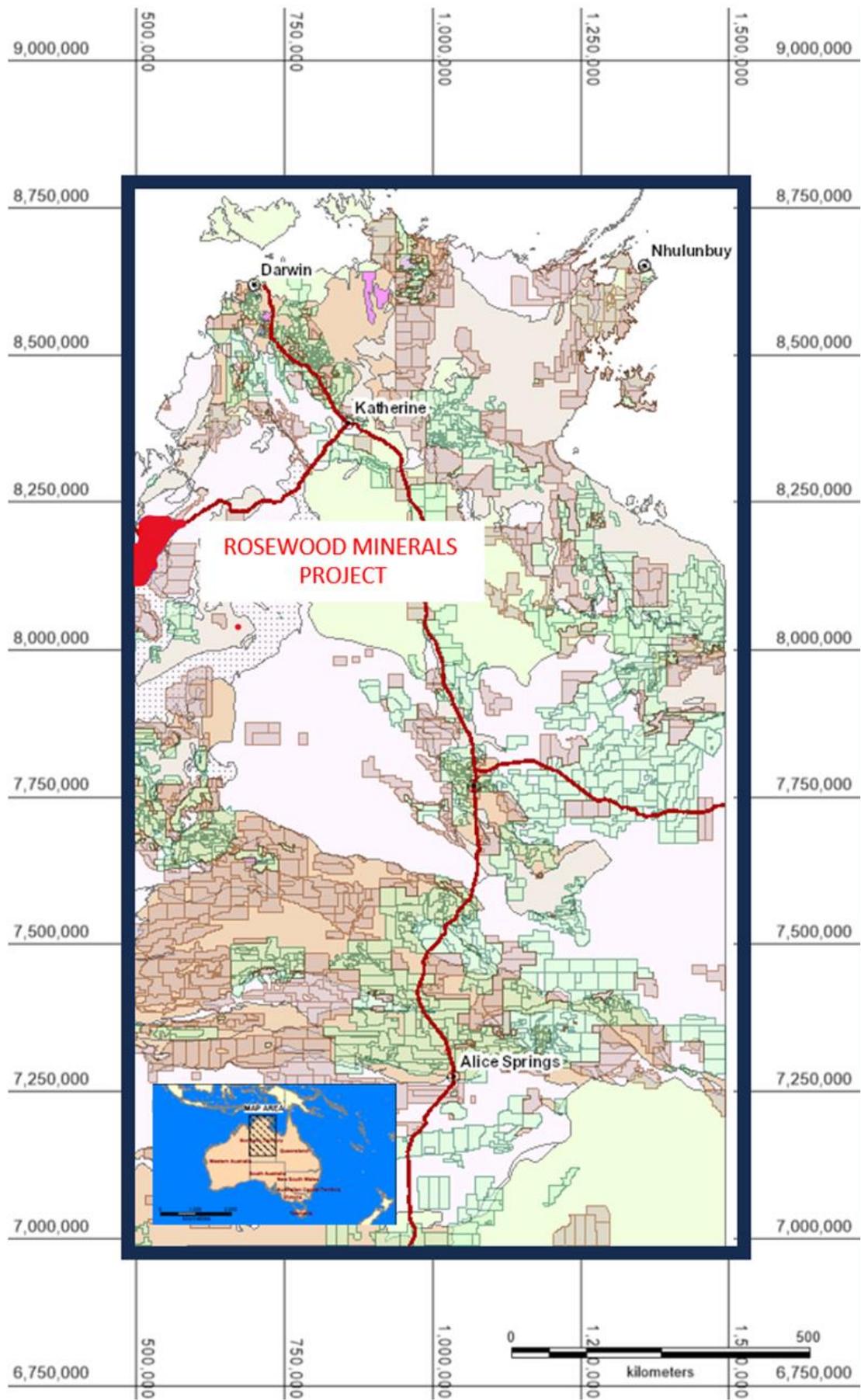
# 1 INTRODUCTION

The following report describes work completed on The Relinquished portion of EL33045. This tenement is located about 75 km Southeast of Kununurra approximately 760Km SSW of Darwin, Northern Territory. Access is gained via the Duncan Highway; numerous farm tracks and roads can be used to access most areas in the project. The project area has undergone exploration for Cu in the past, most recently by Riding Resources, who proposed and planned drilling to test a modelled geomagnetic high on EL33428, to the East of EL33045. Prior to that, Proto Resources, held the ground and were targeting a Norlisk style Ni-Cu mineralised system in the area and took a single rock-chip sample WR004, that returned 76ppm Cu. Rosewood conducted mapping and sampling from 2022 to 2024 and failed to identify any mineralisation or targets within the relinquished area. Sample R300219 was taken in 2023 and returned no significant assay.

## 1.1 Location and Access

These tenements are centred about 75 km Southeast of Kununurra approximately 760Km SSW of Darwin, Northern Territory. See fig 1 Access is gained via the Duncan Highway; numerous farm tracks and roads can be used to access most areas in the project. Tall grass on rounded basalt cobblestones makes off-road access difficult. Rugged elevated topography over all target areas other than the Kangaroo Creek area means that helicopter access is by far the most cost-effective means of carrying out the fieldwork. Ten or twelve streams can be sampled within the four-hour flight time window where a day's work on the ground might achieve perhaps two. Landing sites could generally be found within a short walking distance of the target stream. Speargrass remains an issue to be factored into the planning of future field programs and coordination with the stations' cycle of paddock grazing, as far as possible, could be factored in also. The landholders are extremely sensitive to fires and hence no fires are permitted if camping. Helicopters bring the added risk of grass fire, risk assessments + suitable fire extinguishers are recommended, one incident occurred in 2024, however the fire was extinguished before it could reach any size.

Figure 1 Tenement Location plan



**Figure 2 Speargrass fire ignited by helicopter exhaust**



Difficulties in negotiating land access as Detailed by G.Farnell, Director, Rosewood Minerals:

*“In addition to the 2 granted ELs ie EL 32616 and EL 33045 totalling some 920 km<sup>2</sup>, RML has another 7 EL applications in the same area totalling another 3044km<sup>2</sup>. All these titles are contiguous. None of these ELAs have yet been granted and the grant of 5 of these titles totalling some 2386km<sup>2</sup> have been objected to by the NLC. These objections are now a matter for determination by the NNTT*

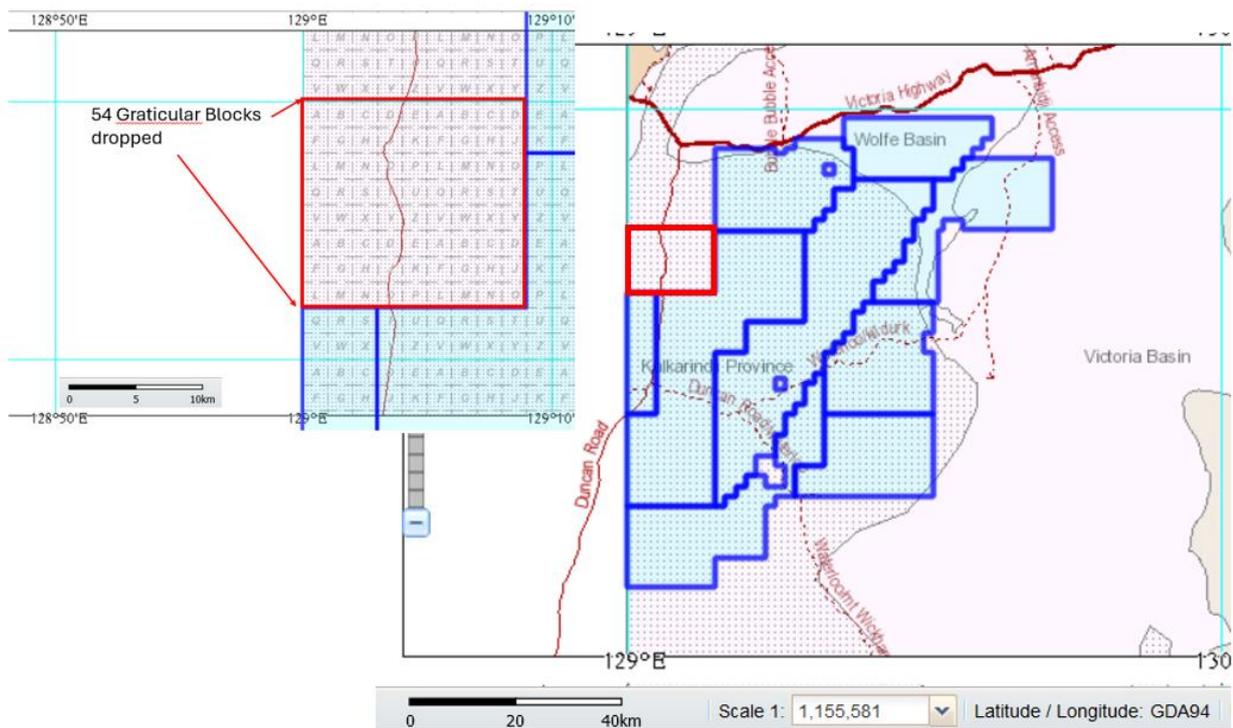
## **1.2 Tenure**

This report covers EL33045 and the associate tenements listed in Table 1 below. 54 Graticular blocks have been dropped from the northern portion of EL33045. Details of the titles as at the Rosewood Project are provided below:

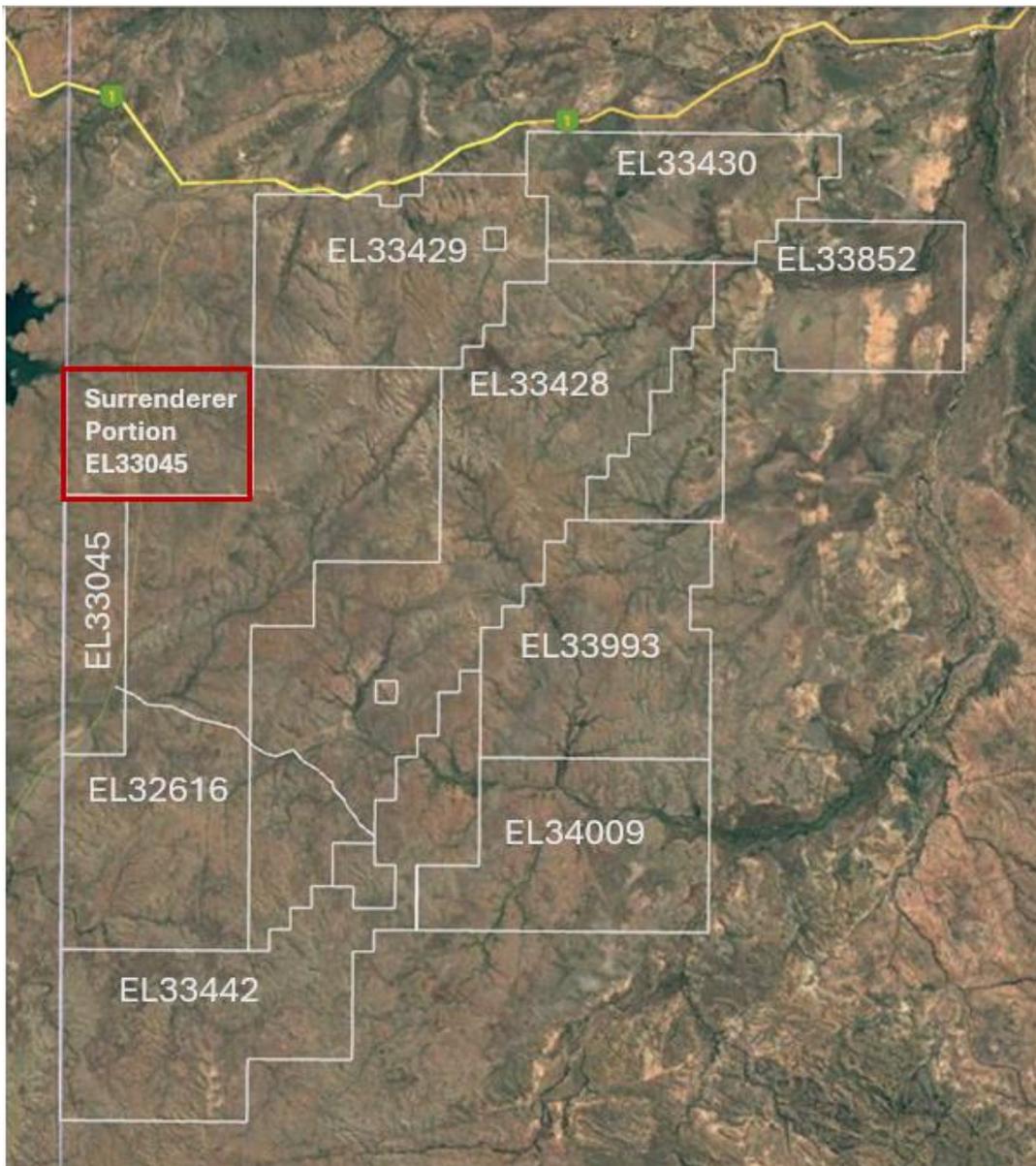
**Table 1: Tenement Details**

| Title ID | Area SqKm | Status      | Granted Date | Expiry Date |
|----------|-----------|-------------|--------------|-------------|
| EL33045  | 120       | Current     | 2021-07-28   | 2027-07-27  |
| EL32616  | 800.57    | Current     | 2022-11-24   | 2028-11-23  |
| EL33430  | 254.08    |             |              |             |
| EL34009  | 318.77    | Application |              |             |
| EL33852  | 370.77    | Application |              |             |
| EL33428  | 817.31    | Application |              |             |
| EL33993  | 349.81    | Application |              |             |
| EL33442  | 466.78    | Application |              |             |
| EL33429  | 344.8     | Application |              |             |

**Figure 3 Graticular Blocks Dropped**



**Figure 4: Dropped ground in relation to Rosewood EL + ELAs.**

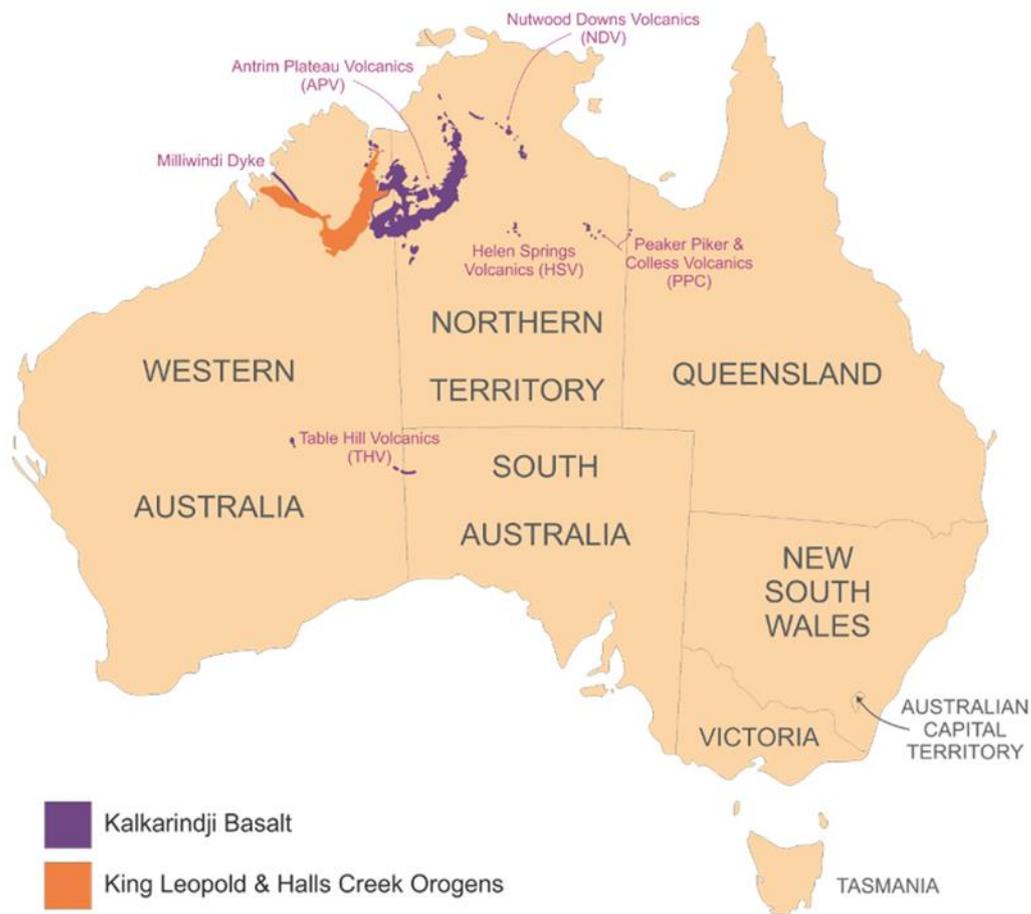


## 2 GEOLOGY AND MINERALISATION

### 2.1 Regional Geology

The Rosewood Project is within the Antrim Plateau Volcanics which is part of the Kalkarindji Province. The province is a Cambrian continental flood basalt consisting of tholeiitic basalts, andesite, dolerite, sandstone, chert and limestone. This is overlain by the Headley's Limestone, part of the Goose Hole group in the Ord Basin, also of Cambrian age. The project area hosts a very shallowly dipping to horizontal package of basalts with minor sediments and rare limestone outcrops,

Cu mineralisation occurs in 5 styles originally described by Erskine et al, 1970



**Figure 5 Kalkarindji Basalt, From Erskine, 1970**

5 styles of Cu mineralisation are described in the Erskine paper :

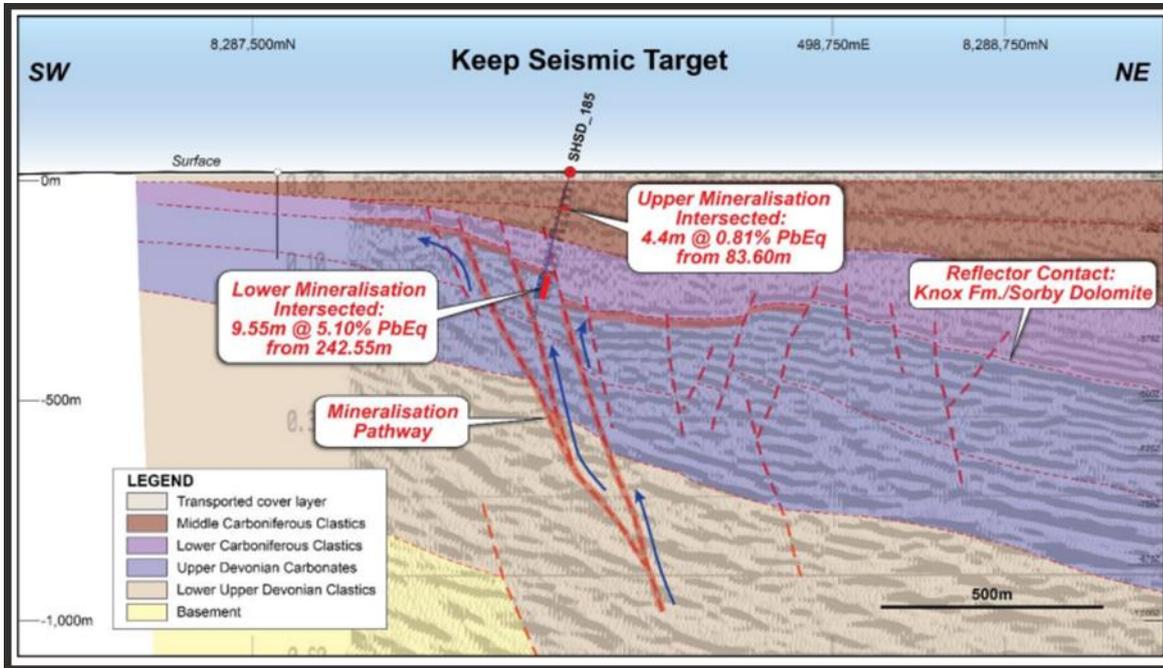
- Cu within faulted / sheared zones (Caves Prospect)
- Copper within the contact zone of limestone and basalt (Kangaroo Creek)
- Copper associated with vesicles in basalt flow tops (Gumtree Well)
- Copper within agglomerates and associated with Barites (Negri Loop)
- Copper finely disseminated within massive basalt flows (Blackfella Rockhole)

Topography is quite steep over portions of the project, with a large valley associated with the Blackfella fault, other structures are expressed through the flat lying sequence and although there is approximately 200m of relief, the flat lying nature of the package means only ~ 200m of thickness of the entire sequence is exposed.

## 2.2 Local Geology

Work from Last year has highlighted the strong association of Cu and large Ne striking regional normal Faults See fig 6

**FIGURE 6 Sorby Hills, Keep Seismic Target**



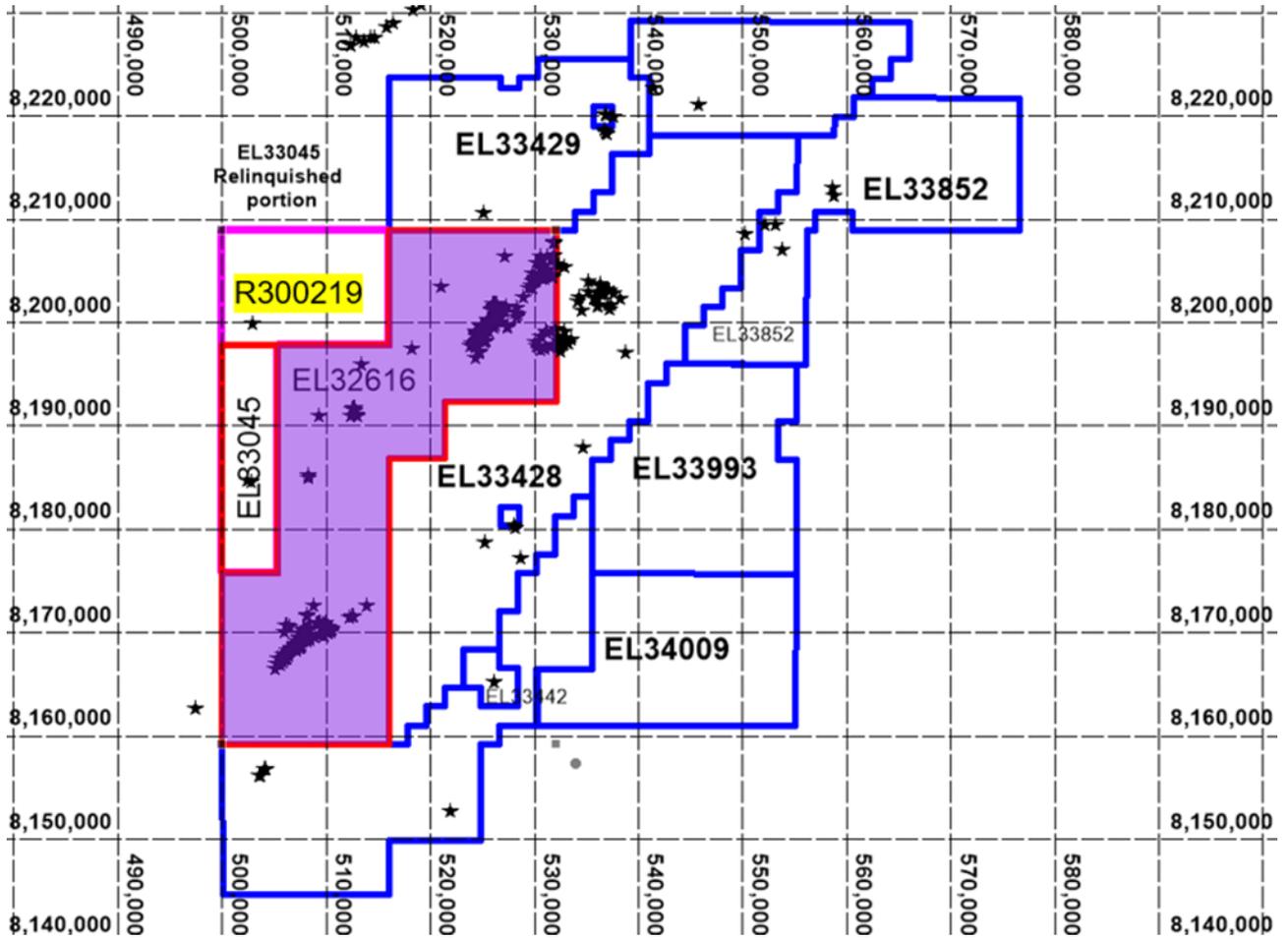
Mineralising fluids moved up faults and mineralized Upper Devonian Carbonates at. N.B Mineralisation within the middle Carboniferous clastics (porus unit) From Boab Metals, Press Release 2024.

Rosewood is targeting similar structures to the south of Sorby hills, that host Cu + Ag, Rosewood believes that there are clastic, porous beds in the vesicular basalts at the top of each flow in the sequence of the Kalkarindji Basalt, this is supported by the BMR drillholes Waterloo No1 + No2, which are retained at the Geoscience Australia Core Repository. Given the apparent close spatial association with faulting and mineralisation, work for the 2023-2024 year has hence focussed the Black fellow Fault, the Kangaroo Creek Fault, Gumtree Well Horizon and Gum Creek (Riding resources) geophysical targets.

The project area hosts a very shallowly dipping to horizontal package of basalts with minor sediments and rare limestone outcrops, Cu mineralisation occurs in 5 styles originally described by Erskine et al, 1970 (1) the 54 The area surrendered exhibits generally low magnetic return with no sign of structure that Rosewood is targeting.

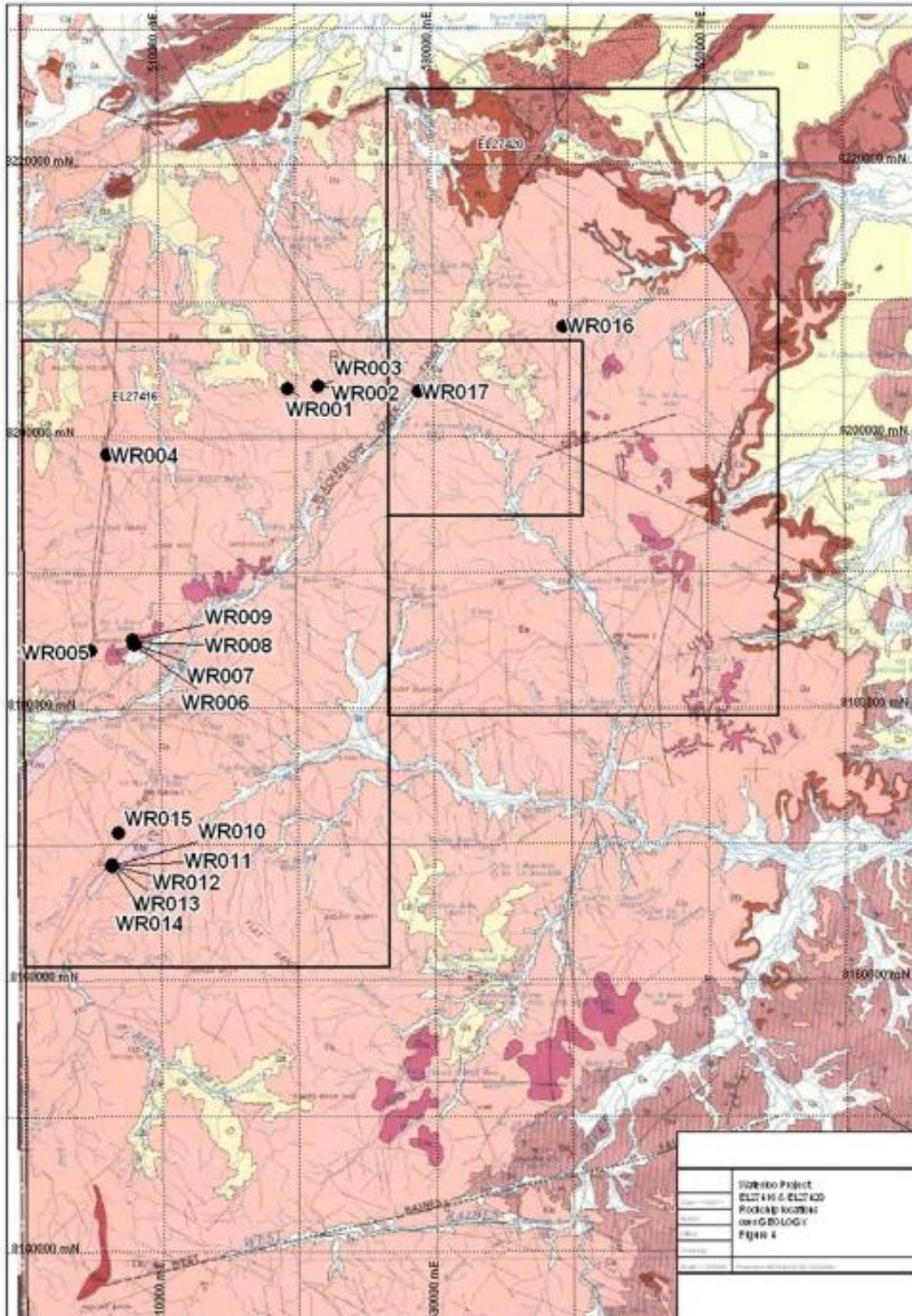
### 3 PREVIOUS EXPLORATION

Figure 7, Location of 2023 sampling, R300219



### 3.1 Previous Exploration by Proto Resources

Figure 8 Proto Resources Sampling.



### **3.2 2023 Field Work**

#### **Figure 8 2023 sampling on EL33045**

One sample was taken in 2023, R300219, no significant mineralisation was identified, see EL33045 assay file attached

### **3.3 Surface Geochemistry**

One rock-chip sample was taken, R300219, which returned no values of significance, see appendix A

## **4 CONCLUSION AND RECOMMENDATIONS**

Rosewood do feel that the prospectivity justifies the expense associated with NLC negotiation to retain the northern part of this exploration tenement. It is recommended that no further expenditure be undertaken in this area.

## Appendix A

### Assay data

| SampleId      | date          | MGA_East      | MGA_Nort      | Sample_Type   | Tenement_No   | Grid          | batchno       | Job_No  |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|
| R300219       | 45286         | 502854        | 8199984       | rock          | EL33045       | MGA_94_5      | PH231119      | NA26630 |
| <b>Au_ppb</b> | <b>Cu_ppm</b> | <b>Pb_ppm</b> | <b>Zn_ppm</b> | <b>Ag_ppm</b> | <b>As_ppm</b> | <b>Ni_ppm</b> | <b>Co_ppm</b> |         |
| 3.5           | 30            | L             | 81            | L             | L             | 29            | 38            |         |
| <b>Mn_ppm</b> | <b>Fe_ppm</b> | <b>Li_ppm</b> | <b>K_ppm</b>  | <b>S_ppm</b>  | <b>Bi_ppm</b> | <b>Cd_ppm</b> | <b>Ce_ppm</b> |         |
| 969           | 65201         | 13            | 11918         | 43            | 0.06          | 0.05          | 20.96         |         |
| <b>Cs_ppm</b> | <b>La_ppm</b> | <b>Mo_ppm</b> | <b>Rb_ppm</b> | <b>Sb_ppm</b> | <b>Sn_ppm</b> | <b>Se_ppm</b> | <b>Te_ppm</b> |         |
| 0.19          | 11.09         | 0.76          | 30.96         | L             | 1.86          | 6.8           | L             |         |
| <b>W_ppm</b>  | <b>Nb_ppm</b> | <b>Ta_ppm</b> | <b>U_ppm</b>  | <b>Th_ppm</b> | <b>Pr_ppm</b> |               |               |         |
| 0.6           | 7.49          | 0.73          | 0.98          | 1.88          | 3.05          |               |               |         |