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PARTIAL RELINQUISHMENT REPORT

EL 10142 'Brumby Dam'

HARTS RANGE PROJECT

From 21 May 2002 to 20 May 2006

Author

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Distribution:

- o Department of Business, Industry & Resources Development (1)
- o Native Title Unit - Central Land Council (1)
- o Tanami Gold NL - Perth (1)

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APPENDICES – DIGITAL

FILE	DESC
EL_10142 SG2 ROCK2001A	Composite rockchip samples
EL_10142 SG2 ROCK2003A	Rockchip samples
EL_10142 SG2 SOIL2001A	Soil samples
EL_10142 GEOLOGY CODES	Description of geology codes

1.0 SUMMARY

Tanami Gold NL identified the potential for Selwyn-style copper-gold mineralisation and Coronation Hill-style gold-PGM mineralisation in the Harts Range region of Central Australia leading to the acquisition of a significant tenement holding in the district.

EL 10142 ‘Brumby Dam’ forms part of the Harts Range Project and is situated approximately 110 kilometres northeast of Alice Springs (**Figure 1**). The tenement was granted to Tanami Exploration NL (TENL), a wholly owned subsidiary of Tanami Gold NL (TGNL). This report describes exploration carried out on the relinquished portions of EL 10142 after four years of tenure.

Exploration consisted of a regional assessment and reconnaissance rock chip (18 samples) and soil sampling (60 samples). The sampling mainly tested a retrograde shear zone of chlorite schist related to the Alice Springs orogeny. Several elevated gold values up to 380ppb were received from the rock chip sampling and values up to 6ppb Au from the soil sampling.

2.0 INTRODUCTION

EL 10142 forms part of TENL’s Harts Range Project and is centred approximately 110 kilometres northeast of Alice Springs (**Figure 1**). Access to the tenement is via a limited number of tracks north of Claraville Station. Claraville is reached via the Arltunga Tourist Road east from the Stuart Highway or north from the Ross River Road via the Arltunga townsite.

This report provides details of exploration conducted by TENL on the relinquished portions of EL 10142. The tenement was initially acquired to cover the Florence Creek Shear Zone (FCS) and associated anomalous Pt-Pd-Au values returned from PNC’s uranium exploration program.

3.0 TENURE

At the end of the second year of term, EL 10142 was the subject of a partial surrender in respect of 98 blocks (**Figure 2**), see **Table 1**.

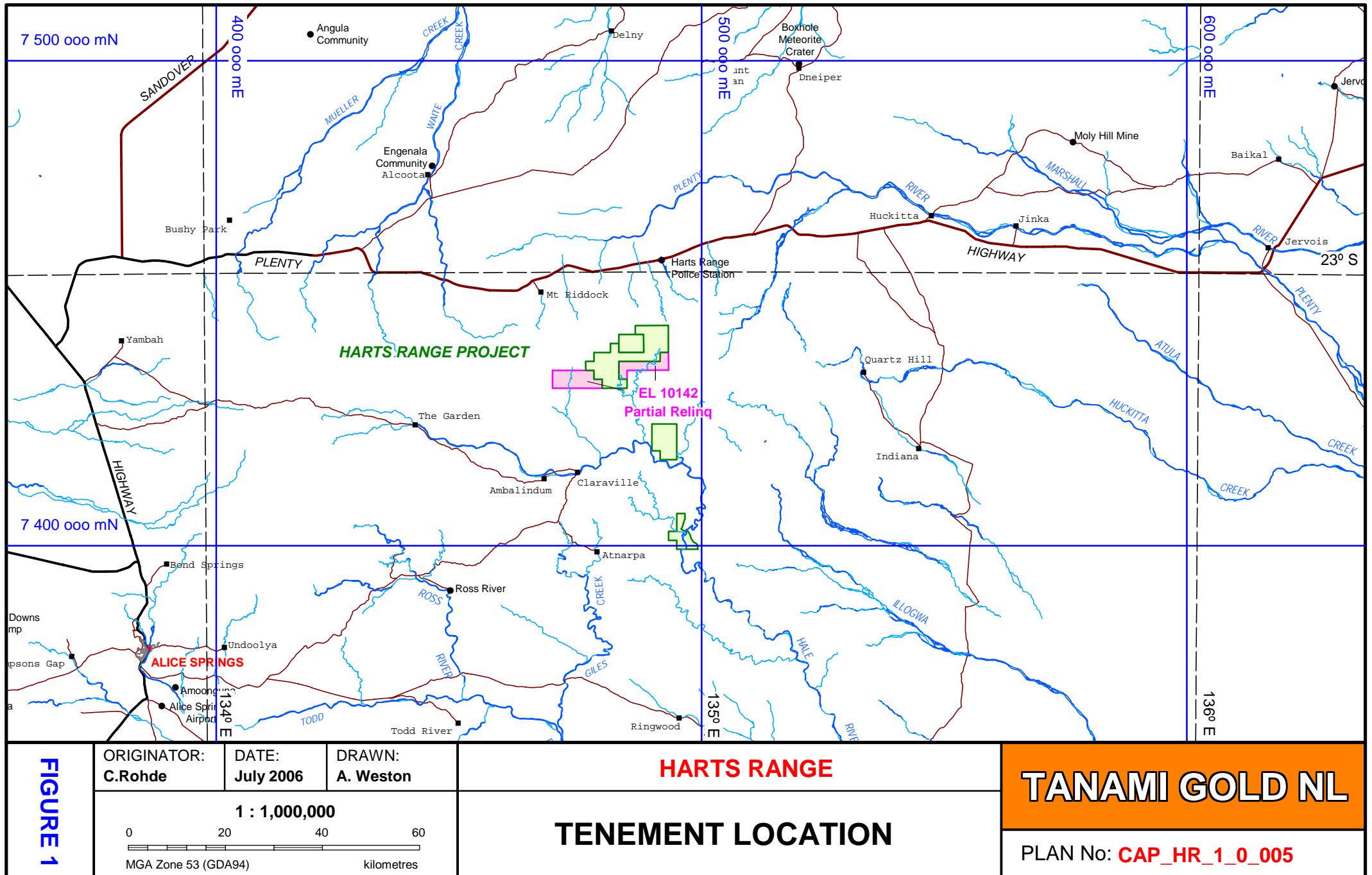
Table 1: Tenement Details

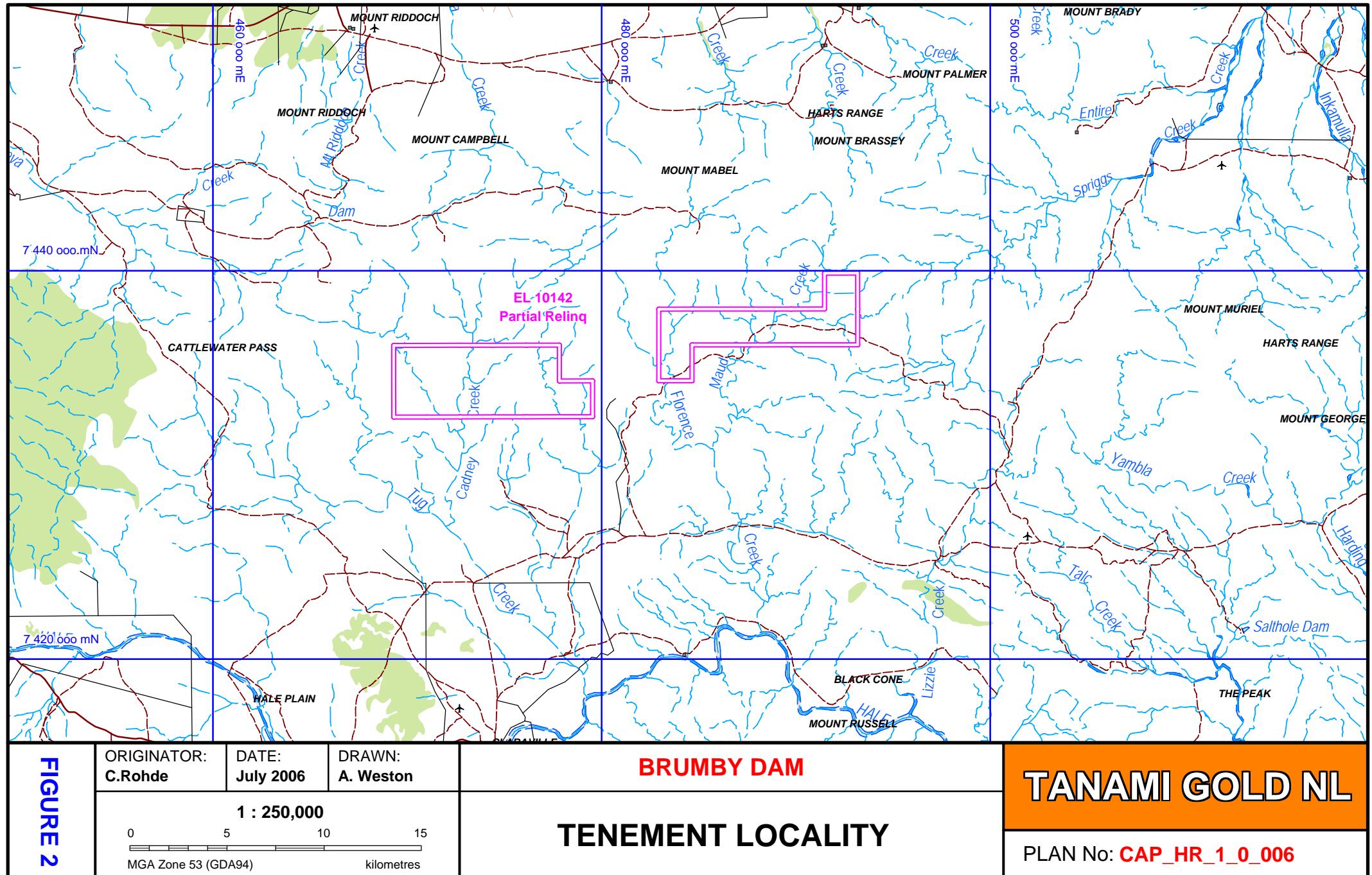
Tenement	Tenement No	Blocks Granted	Blocks Relinqu 2004	Blocks Relinqu 2006	Blocks Retained	Grant Date	Expiry Date
Brumby Dam	EL 10142	157	98	19	40	21 May 02	20 May 08

Prior to the grant of EL 10142, TENL entered into an Indigenous Land Use Agreement (ILUA) covering EL 10142 and contiguous tenements in the region. The Agreement (Harts Range ILUA D12002/001) was registered by the National Native Title Tribunal on 5 September 2002. Parties to the Agreement are TENL and the Central Land Council (CLC).

4.0 GEOLOGY

The Harts Range tenements lie within the Arunta Region, which has a stratigraphic, igneous and tectonic history spanning the Palaeoproterozoic to the Palaeozoic. The geology of the tenement is dominated by the Strangways Metamorphic Complex and overlying Amadeus Basin.





The Palaeoproterozoic Strangways Metamorphic complex is made up of three stratigraphic packages:

1. Sedimentary and volcanic (and intrusive?) rocks.
2. Pelite dominated siliciclastic package with some intercalated quartzite and calc-silicate units.
3. Upper package dominated by marbles and calc silicate rocks (Hussy et al 2003). The Ongeva package encompasses package 1 and 2 while the Cadney package correlates with the third stratigraphic unit. (Scrimgeour, 2003).

The lowermost unit of the Neoproterozoic Amadeus Basin, the Heavitree Quartzite, overlies Palaeoproterozoic basement rocks forming high ridges flanked by steep escarpments. The contact between quartzite and basement within some parts of the tenement is tectonic, comprising low angle shear zones. Within these shear zones basement is highly strained and retrogressed to chlorite schist. These 'retrograde shear zones' were formed during the Alice Springs Orogeny (450 to 310Ma) and are the host to gold mineralisation in the Winnecke area.

A regional interpretation of the district was compiled for TENL by Dr Ding Puquan in April-May 2001 (Ding, 2001). The program covered an area of 10,000 km² centred on the Florence Creek Shear Zone and other structures associated with the Alice Springs Orogeny. A portion of this interpretation covering the relinquished sections of EL 10142 is presented as **Plate 1**. The western relinquished portion is mainly underlain by undifferentiated amphibolite to granulite facies metasediments and minor gneisses of the Cadney Metamorphics. The Florence Creek Shear Zone acts as a major terrane boundary separating Cadney Metamorphics from the quartzite, marble and calc-silicate rocks of the Harts Range Orogenic Belt in the eastern relinquished portion.

No Modat occurrences are located on the surrendered tenement areas.

5.0 TENL EXPLORATION

The initial phases of exploration in the Harts Range area comprised regional geological mapping, assessment of target commodities and prospectivity and limited reconnaissance sampling. Supporting maps are **Plate 1** and **Plate 2**, showing interpreted geology and aeromagnetics of the Brumby Dam tenement area.

Reconnaissance exploration was carried out in 2001 on EL 10142 prior to the grant of this tenement under the fossicking provisions of the Mining Act. Soil sampling and rock chip sampling on the relinquished tenement portions was testing a retrograde shear zone of chlorite schist related to the Alice Springs orogeny, targeting Pt-Pd-Au mineralisation. A total of 18 rock chip samples and 60 soil samples were taken on the relinquished tenement area (**Plate 3**).

The rock chip samples were analysed by Australian Laboratory Services for:

- Ag using AA45 with 1ppm detection limit,
- Au using PGM-MS23 with 1ppb detection limit,
- Bi using AA45 with 5ppm detection limit,
- Cu using Cu-AA45 with 1ppm detection limit and
- Pd, Pt using PGM-MS23 with 1ppb detection limit.

The soil samples were analysed by Genalysis for:

- Ag using AT/EOES with 0.5 ppm detection limit,
- Au using FA25/MS with 1ppb detection limit,

- Bi using AT/OES with 5ppm detection limit,
- Cu using AT/OES with 1ppm detection limit and
- Pd, Pt using FA25/MS with 1ppb detection limit.

All sampling and assay data resulting from exploration described above is presented as digital appendices. Several elevated gold values up to 380ppb were received from the rock chip sampling. Soil sampling returned values up to 6ppb Au.

6.0 REHABILITATION

No ground disturbing work was conducted and therefore no rehabilitation is required.

7.0 BIBLIOGRAPHY

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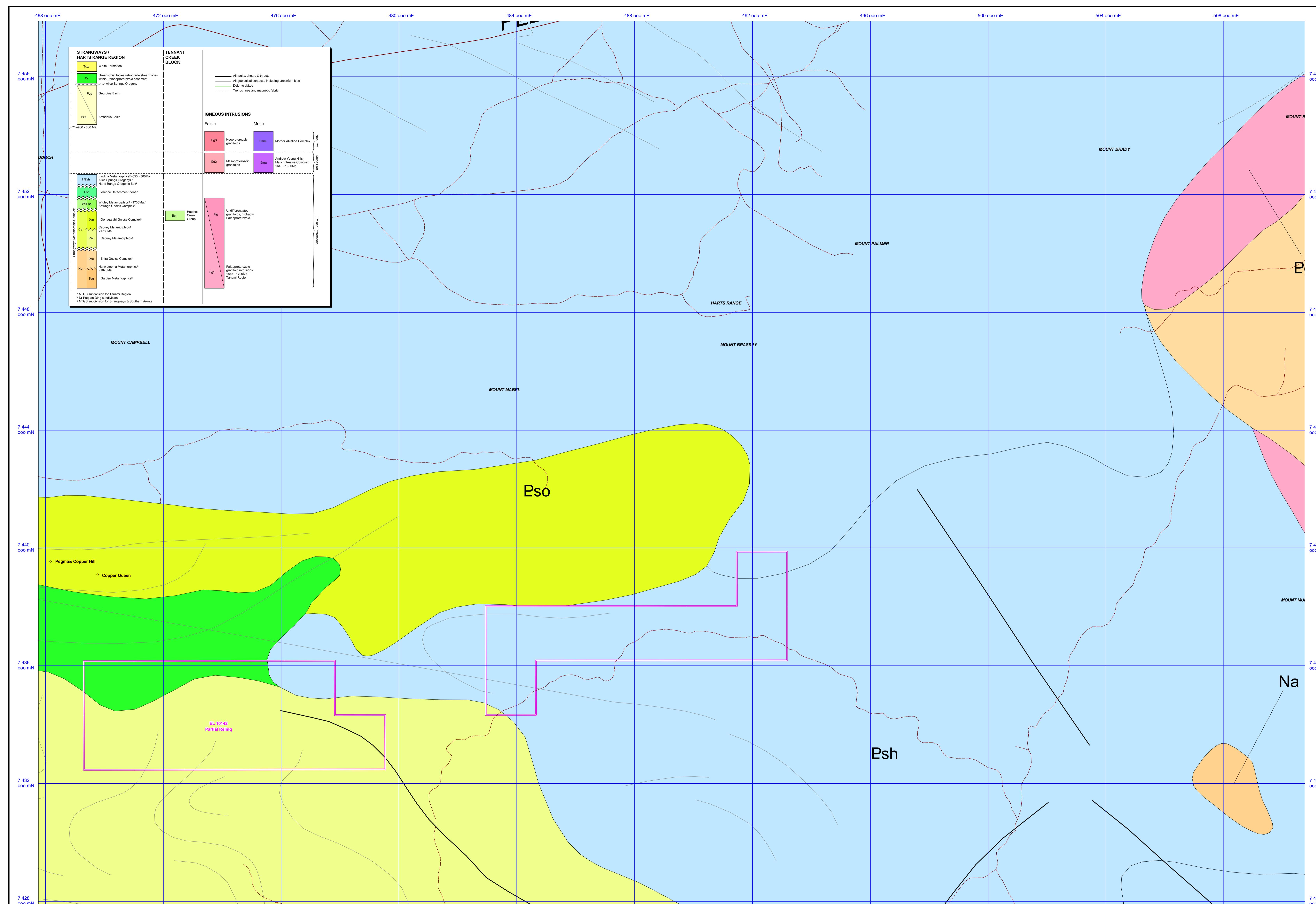
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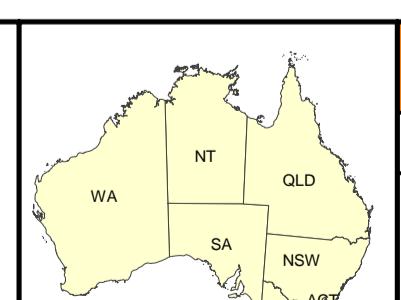
Rohde, C., 2004. Partial Relinquishment Report on EL 10142 'Brumby Dam' Harts Range Project from 21 May 2002 to 20 May 2004. Unpublished TENL report.

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TANAMI GOLD NL HARTS RANGE CENTRAL

INTERPRETED GEOLOGY WITH MODAT LOCATIONS

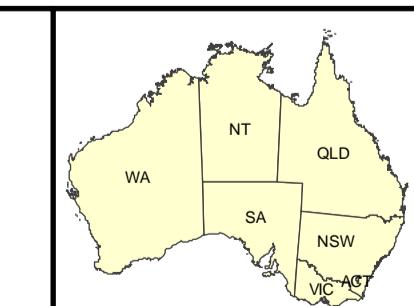
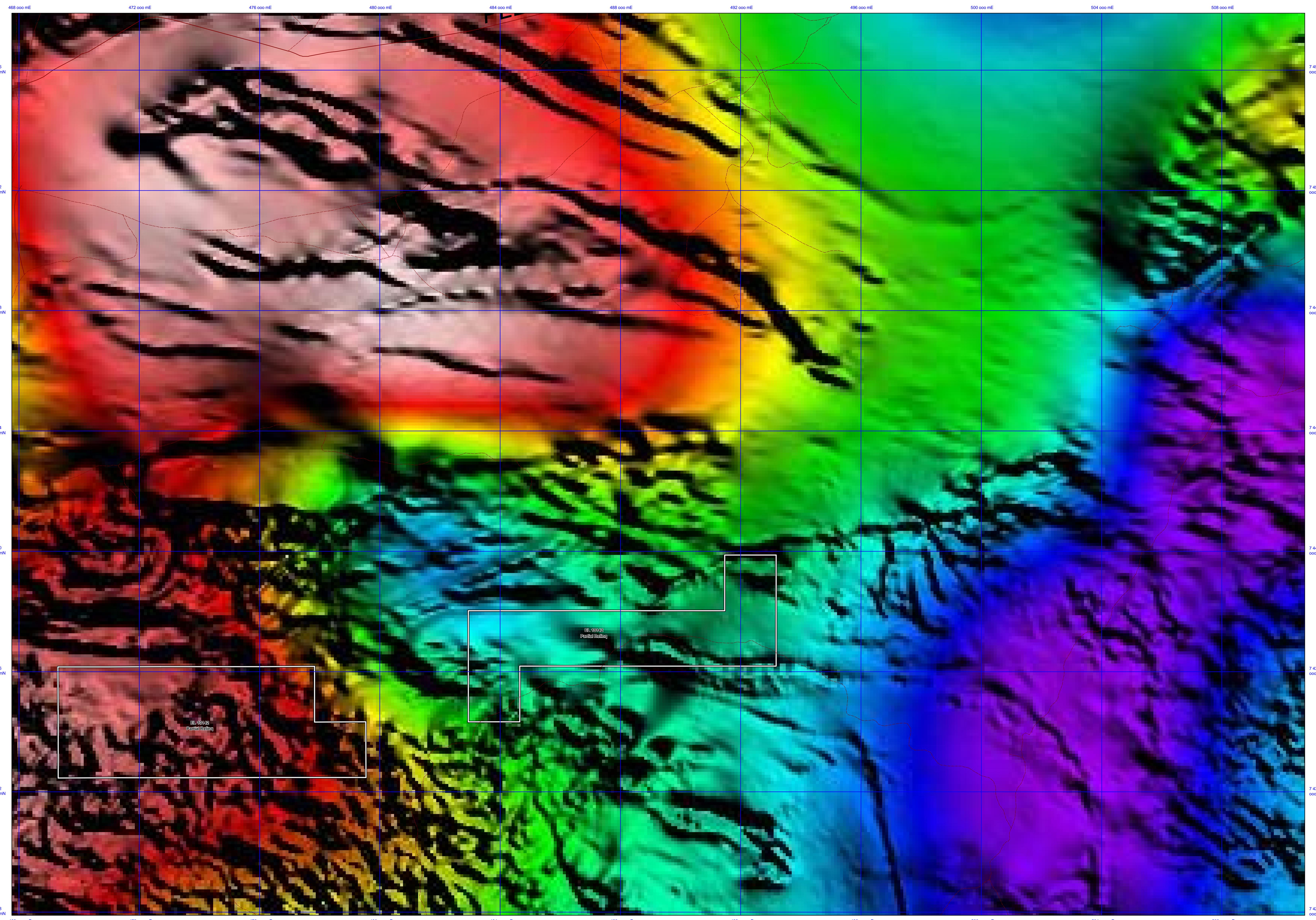


ALCOOTTA SF5310 HICHTA SF5311
ALICE SPRINGS SF5314 ILLOGWA CREEK SF5315

1000 0 1000 2000 4000 6000
metres
MGA Zone 53 (GDA94)
1 : 50,000
ORIGINATOR: C. Rohde DATE: July 2006 DRAWN: A. Weston
PLAN No: CAP_HR_2_003



PLATE 1



TANAMI GOLD NL
HARTS RANGE CENTRAL

**AEROMAGNETICS TMI &
RESIDUAL GRAVITY**

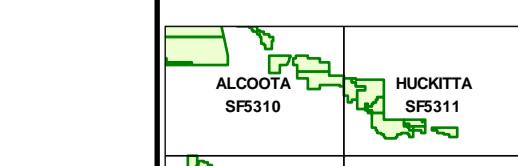
1000 0 1000 2000 4000 6000
metres

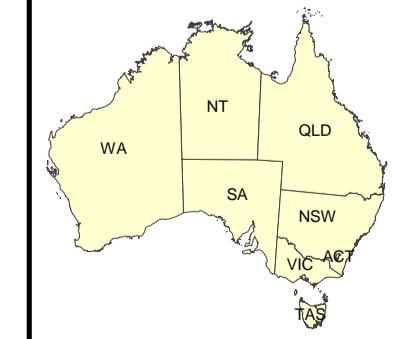
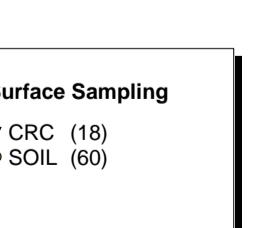
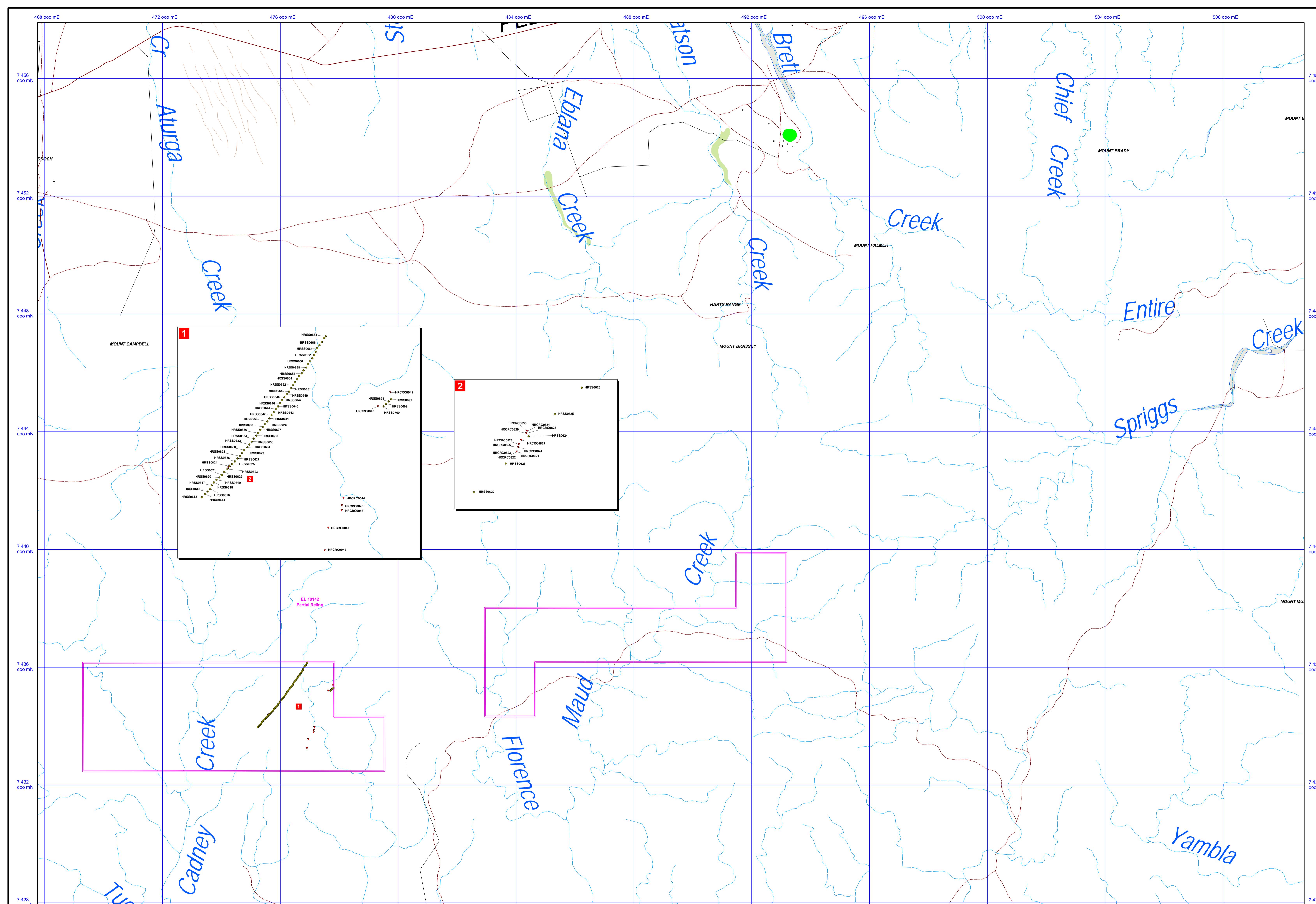
MSA Zone 53 (GDA94) 1 : 50,000

ORIGINATOR: C. Rohde DATE: July 2006 DRAWN: A. Weston

PLAN No: CAP_HR_4.1_003

PLATE 2





TANAMI GOLD NL

HARTS RANGE CENTRAL

ROCK CHIP & SOIL SAMPLING LOCATION PLAN

1 : 50,000

nde July 2006 A. Weston
N No. 047-012-5-000

PLATE 3

IN NO: CAP_HR_5_003