

ANGLOGOLD AUSTRALASIA LIMITED
FOURTH GROUP ANNUAL REPORT FOR
EL's 9468 and 9552
FOR THE YEARS ENDED:
2ND SEPTEMBER 2000(EL 9468) AND
20TH OCTOBER 2000 (EL 9552)
HARRIET CREEK AND RAGAMUFFIN

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Report No: 08.10956

Date: October 2000

Drafting: Amanda Horner

Copy No: 1

1:100 000 Pine Creek - 5270

1:250 000 Pine Creek - SD52-8

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SUMMARY

Exploration Licences EL 9468 and 9552, in the Pine Creek area NT, are currently being explored by AngloGold Australasia Limited. These licence areas, known as Harriet Creek and Ragamuffin respectively, are located 5km north east of the township of Pine Creek and ~ 10 km south east of the Union Reefs Gold Mine. This group report details all exploration activities carried out in these tenements for the twelve months up to 2nd September 2000 (EL 9468) and 20th October 2000 (EL 9552), respectively.

Exploration activities conducted within the tenement group in the reporting period include:

Thirty nine (39) posthole vacuum holes (Ragamuffin) testing the bedrock response of soil sampling anomalies.

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Appendix 1	AngloGold Geological Logging Codes
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Appendix 3	Environmental Register

1 INTRODUCTION

Exploration Licences (EL's) 9468 and 9552 are currently being explored by Acacia Resources. The centre of this tenement group is located approximately 10km south of the Union Reefs Gold Mine operations. This report details work carried out on these tenements in their third year of tenure.

2 TENEMENT STATUS

Tabled below is a summary of the tenement status for the reported licences :

Tenement	Grant Date	Expiry Date	Relinquishments	No.of Blocks
Harriet Creek EL9468	03/09/96	03/09/02	- 02/07/97 04/08/98	29 3 1
Ragamuffin EL9552	21/10/96	21/10/02	- 13/09/99	3 2

Group reporting was approved by the NTDME on 30th June, 1997 for the above tenements. This is the third year of group reporting for these tenements. All data and expenditure reported on, falls between the grant date of each tenement and their respective anniversaries.

In order to conform with reduction requirements a one (1) block reduction was completed for EL9552 on the 13th September 1999.

2.1 Aboriginal Area Protection Authority Clearance

The AAPA issued Authority Certificate No. C98/149, for a period of two years commencing on the 18th December 1998. There is one registered site of significance within EL9468. (Figure 3)

3 LOCATION AND ACCESS

The group of tenements is located 5km ENE of the Pine Creek township and 10km SSE of the Union Reefs Gold Mine (Figure 1). Access to Harriet Creek (EL 9468) and Ragamuffin (EL 9552) is possible via the Kakadu Highway, turning east of the Stuart Highway near Pine Creek.

Harriet Creek (EL 9468) and Ragamuffin (EL 9552) are both encompassed by mapsheet 14/6-II Pine Creek.

4 REGIONAL GEOLOGY

The tenement areas are located within the central portion of the Pine Creek Shear Zone within Lower Proterozoic Finniss River and South Alligator Groups, more specifically Burrell Creek and Mt. Bonnie Formations. Interbedded shales, siltstones and greywackes dominate this regional metasedimentary package which hosts the bulk of the major gold deposits in the Pine Creek Geosyncline including Pine Creek, Union Reefs and Spring Hill (Figure 2).

The geology of the Harriet Creek EL 9468 is dominated by the intrusive Allamber Springs Granite, with some Mt. Bonnie Formation in the western margins of the tenement area. Ragamuffin EL 9552 encompasses the geological contact between the sedimentary Burrell Creek Formation and the intrusive Allamber Springs Granite. Thick Mesozoic cover is recognised in parts of the Ragamuffin licence.

Turbiditic greywackes and shales exposed in the tenement areas have been assigned to Burrell Creek and Mt. Bonnie Formations. These rocks have been folded to produce upright NNW trending folds and sub-vertical to steeply dipping bedding throughout the area. Greenschist facies metamorphism appears to be broadly synchronous with this deformation.

5 PREVIOUS WORK

5.1 1996/97 Year 1 (Rep. 08.8949)

Exploration completed by Acacia during 1996/1997 reporting period included the following:

- 1:25,000 colour aerial photography,
- digital elevation modelling
- detailed aeromagnetic and radiometric surveying
- establishment of an exploration grid within the Ragamuffin licence area, totalling some 2.4km of baseline construction, and 11.15 line km of east-west cross line gridding
- collection of three hundred and ninety one (391) spot soil samples

5.2 1997/98 Year 2 (Rep. 08.9646)

Exploration completed by Acacia during 1997/1998 reporting period included the following:

- 8.75 line km of cross line gridding
- collection of 85 auger soil samples
- vacuum drilling for a total of 1103m, to collect 277 residual soil samples
- collection and review of recent gravity data
- compilation, review and interpretation of aeromagnetic, radiometric and gravity data

5.3 1998/99 Year 3 (Rep. 08.10563)

Three fences of shallow RC for a total of seven holes and 293m were drilled beneath anomalous soils at Ragamuffin. No significant bedrock results were recorded. A gravel layer at the base of the transported returned a peak of 100ppb Au.

6 WORK COMPLETED – YEAR FOUR

Uncertainties arising from the attempted take-over of Acacia by Delta, and the subsequent successful take-over by AngloGold Australasia Limited led to a change in the exploration focus in 1999. Acacia diverted all of its' exploration funding towards immediately provable resources. As a result, minimal work was completed at the two tenements in 1999.

Following the AngloGold take-over, priorities returned to a more balanced exploration approach.

Due to the late wet season in 2000, access has been extremely limited. Vehicular access proved impossible until May. Only high priority programs have been completed to date.

No field work has been completed at Harriet Creek in the reporting period.

6.1 Vacuum Drilling – Ragamuffin

A program of vacuum sampling on 400x25m centres was planned for this year. The program was designed to test bedrock below the anomalous surface sampling. Four lines were intended for the northern portion of the tenement.

The program was cancelled following the completion of the first line, as the ground was still too wet to complete it.

In all 39 samples were taken from bedrock. They were then sent to Amdel laboratories in Darwin. The samples were dried, crushed and pulverised in a keegormill to 90% passing 75µm. They were analysed for Au by fire assay (FA1 method, detection limit 0.01ppm Au) with a AAS determination.

All sampling locations and results are given in digital, ASCII comma delimited format on disc as Appendix 2. Surface Sampling locations and results are Figures 4 & 5 respectively.

Statutory reporting was undertaken for both tenements.

7 ENVIRONMENTAL ISSUES

AngloGold conducted exploration activities in such a way as to keep environmental disturbance to a minimum. Existing gridlines were used to access drill sites. Vacuum holes were backfilled upon completion, and no line clearing was completed. An environmental register is included in Appendix 3.

8 EXPENDITURE STATEMENTS

8.1 EL 9468 - Harriet Creek

Expenditure for the period ending 2 September, 2000 totals \$2,540 which has failed to make the covenant of \$5,000. A breakdown of the expenditure is given below:

Staffing & Support	\$2,163
Consumables	\$46
Administration	\$331
Total	<u>\$2,540</u>
 Tenement	 \$50

8.2 EL 9552 - Ragamuffin

Expenditure for the period ending 2 September 2000 totals \$ 16,295 which has met the required covenant of \$9,500. A breakdown of the expenditure is given below:

Staffing & Support	\$10,159
Consumables	\$473
Drilling	\$1,978
Vehicles	\$1,560
Administration	\$2,125
Total	<u>\$16,295</u>

Note; Assays for samples taken within the reporting period were not carried out in the reporting period. The costs of this work are not included in the above.

9 PROPOSED PROGRAMS AND EXPENDITURE

9.1 EL 9468 - Harriet Creek

Further exploration at Harriet Creek will involve infill soil sampling and pending a data review, either target drilling or surrender. A breakdown of the proposed expenditure is given below:

Staffing	\$	1, 000
Support	\$	1, 000
Geochemical Sampling	\$	1, 000
Assays	\$	1, 000
Consumables	\$	600
Rehabilitation	\$	<u>400</u>
Total	\$	5, 000

9.2 EL 9552 – Ragamuffin

The vacuum drilling program at Ragamuffin will be completed to test for bedrock mineralisation below the soil sampling anomaly. RC drilling may be completed depending on the vacuum sampling results.

Staffing	\$	1, 500
Support	\$	1, 500
Vacuum Drilling	\$	4, 500
Assays	\$	1, 000
Consumables	\$	500
Rehabilitation	\$	<u>500</u>
<u>Total</u>	\$	9, 500

10 REFERENCES

FERGUSON J, 1980. Metamorphism in the Pine Creek Geosyncline and its Bearing on Stratigraphic Correlations. In FERGUSON J, & GOLBY AB, (Editors) - URANIUM IN THE PINE CREEK GEOSYNCLINE. International Atomic Energy Agency, Vienna, 91 - 100.

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VELA NIKI, 1997. First Group Annual Report for the Years Ended 2nd September 1997 (EL 9468) and 20th October 1997 (EL 9552), Harriet Creek and Ragamuffin. Unpublished. 08.8949

APPENDIX 1
ANGLOGOLD GEOLOGICAL
LOGGING CODES

AngloGold Australasia - Geological Logging Codes

RETURN (RTN)
% Of Return

WATER (H2O)
B Blowndry
D Dry
I Injected
M Moist
W Wet

HARDNESS
VH Very Hard
H Hard
M Medium
S Soft
VS Very Soft

COLOUR (COLOUR)
<u>Qualifier</u>
DK Dark
LT Light
BE Beige
BG Blue/green
BK Black
BL Blue
BN Brown
CM Cream
GN Green
GY Grey
KK Khaki
MS Mustard
OG Orange
PI Pink
PP Purple
RD Red
TN Tan
WH White
YE Yellow
e.g BNGN, LTBN

TEXTURE (Text)
<u>Qualifier</u>
ST Strong
MD Moderate
WK Weak
<u>Sedimentary</u>
IB Interbedded
LM Laminated
LY Layered

TEXTURE Ctd. (TEXT)
<u>Metamorphic</u>
CR Crenulated
MY Mylonitic
PB Porphyroblastic
SC Schistose
SP Spotted
<u>Igneous</u>
AC Acicular
AM Amygdaloidal
AN Aphanitic
EQ Equigranular
PO Porphyritic
PW Pillows
<u>Structural</u>
BO Boxwork
BX Brecciated
FD Folded
FO Foliated
FR Fractured
LI Lineated
RO Rodded
SH Sheared
SL Slickensides
<u>Others</u>
CX Crystalline
CO Competant
FB Fibrous
GO Gossanous
MS Massive
PT Platy
PS Porous
SA Saccaroidal
SB Solution Bands

GRAINSIZE (GN_SZ)
VF Very Fine
FN Fine - not visible to naked eye
MD Medium - visible to naked eye
CS Coarse - >2mm
VC Very Coarse (pebble)

WEATH (Weathering) (WTH)
EW Extremely weathered with poor textural preservation
HW Highly weathered with moderate textural preservation
MW Moderately weathered with good textural preservation
SW Slightly weathered with < 20% oxides
FR Fresh Bedrock

REGOLITH (REGO)
BR Bedrock (fresh)
LS Lower Saprolite
RX Redox Front
SA Saprolite (undifferentiated)
TL Laterite
TR Transported
US Upper Saprolite
WB Weathered Bedrock
<u>Overprints</u>
MT Mottling
CT Calcrete
ST Silcrete
FT Ferricrete
GT Goethite
HM Haematite
e.g. USMT, USGT

ROCKTYPE (MAJ, MIN1, MIN2)
<u>Sedimentary</u>
AG Agglomerate
BX Breccia
BIF Banded Iron Form
CB Carbonate
CG Conglomerate
CGW Carbonaceous Greywacke
CH Chert
CSH Carbonaceous Shale
CSI Carbonaceous Siltstone
CSS Carbonaceous Sandstone
DO Dolomite
EE Epiclastic
GGW Graphitic Greywacke
GSC Graphitic Schist
GSH Graphitic Shale
GSI Graphitic Siltstone
GW Greywacke (>15%matrix)
HS Haematitic Shale
LM Limestone
SH Shale
SI Siltstone
SS Sandstone
TF Tuff

<u>Igneous</u>
AP Aplite
DL Dolerite
EB Basalt
EBA Antrim Plateau Volcanics
FI Felsic Intrusive (undiff)
GB Gabbro
GR Granite (undiff)
GRA Alkali Granite
GRD Granodiorite
MI Mafic Intrusive (undiff)
PG Pegmatite
PO Porphyry
VA Acid Volcanic
VB Basic Volcanic
VI Intermediate Volcanic

<u>Metamorphic</u>
AM Amphibolite
BMS Biotite Mica Schist
GN Gneiss
HF Hornfels
MB Marble

ROCKTYPE Ctd. (MAJ, MIN1, MIN2)
<u>Metamorphic Ctd</u>
PH Phyllite
QC Quartz Carbonate
QMS Quartz Mica Schist
QT Quartzite
SC Schist
SL Slate
SSM Metasediment
TM Tourmalinite
<u>Other</u>
CL Clay
CT Calcrete
CV Cavity
FT Ferricrete
GV Gravel
GO Gossan
IS Ironstone
MK Mullock
MY Mylonite
NS No Sample
PI Pisolitic Gravel
QV Massive Quartz Vein
SD Sand
ST Silcrete
TL Laterite

MINERALS (ALTER, VEIN_MIN)
AB Albite
AD Andalusite
AM Amphibole
AS Arsenopyrite
AT Altered (undiff)
AU Gold
BI Biotite
BL Bleaching (cb-si)
CB Carbonate
CH Chlorite
CL Clay
CO Cordierite
CW Clay Weathering
EP Epidote
FE Iron
FL Fluorine
GA Garnet
GN Green Alteration
GP Graphite
GT Goethite
HM Haematite
KA Kaolinite
KS K-Feldspar
KY Kyanite
LI Limonite
LX Leucoxene
MI Mica
MN Manganese
MT Magnetite
MU Muscovite
PH Phlogopite
PL Plagioclase
PO Pyrrhotite
PY Pyrite
QZ Quartz
SE Sericite
SI Silica
SR Siderite
TC Talc
TE Tremolite
TM Tourmaline
ZE Zeolite

AngloGold Australasia - Geological Logging Codes

ALT QUAL (QUAL)	
<u>Qualifier</u>	
TR	Trace
WK	Weak
MD	Moderate
ST	Strong
IN	Intense
DM	Disseminated
PV	Pervasive
PT	Patchy
SV	Selvedge
VN	Vein
e.g. STDM, MRSV	

VEIN STYLE (VN_STYLE)	
BK	Buck
BX	Breccia
CB	Comb
CH	Chalcedonic
FB	Fibrous
LM	Laminated
MI	Milky
RB	Ribbon
SA	Saccharoidal
SM	Smoky
ST	Stringer
SW	Stock Work
TR	Translucent

MINERALISATION (OTHER MIN)	
AZ	Azurite
AU	Gold
BI	Biotite
BO	Bornite
CB	Carbonate (undiff)
CN	Native Copper
GR	Garnet
GT	Goethite
HM	Haematite
MA	Malachite
<u>NB:</u> Mineral content must be expressed as a numeric e.g. 0.5, 1, 5 etc.	

SULPHIDES (OTHER SULPH)	
AS	Arsenopyrite
CC	Chalcocite
CP	Chalcopyrite
CU	Cuprite
CV	Covellite
GA	Galena
MF	Fine Black Mineral
MN	Manganese
PO	Pyrrhotite
PY	Pyrite
SP	Sphalerite

INFILL (Geotech)	
KL	Clean
LM	Limonite
HM	Haematite
QZ	Quartz
CL	Clay
TL	Talc
CB	Carbonate
CH	Chlorite
EP	Epidote
SU	Sulphide
RF	Rock Fragments
RC	Rock Frag & Clay Mixtures

STRUCTURAL DEFECTS (Geotech)	
AXP	Axial Plane
BG	Bedding Parting
BK	Broken Zone
CV	Cleavage
CN	Contact
CR	Crushed Seam
DC	Decomposed Zone
DK	Dyke
FA	Fold Axis
FD	Fold
FG	Fragmented Zone
FH	Fold Hinge
FC	Fractured Zone
FT	Fault
FT1	Early Fault
FT2	Late Fault
FTM	Minor Fault
FTL	Fault Large
FV	Fractured Vein
IF	Infill Zone
LI	Lineation
JN	Joint
SC	Schistosity
S0	Bedding
S1	Earliest Schistosity
S2	Second Earliest Schistosity
SH	Shear Zone
VS	Vein Stockwork
VN	Vein
VB	Brecciated Vein

ROCK STRENGTH (Geotech)	
S1	Very Soft Soil
S2	Soft Soil
S3	Stiff Soil
S4	Hard Soil
S5	Transitional Rock/Soil
R1	Very Low Rock Strength
R2	Low Rock Strength
R3	Medium Rock Strength
R4	High Rock Strength
R5	Very High Rock Strength

ROUGHNESS (Geotech)	
SK	Slickenslided
PO	Polished
RO	Rough
SM	Smooth

BROKEN ZONE (Geotech)	
D	Drill Induced
H	Heated
N	Natural

FRACTURING (Geotech)	
WF	Weak, core pieces 1m-200m
MF	Mod. core pieces 10-20cm
SF	Strong, core pieces 5-10cm
BK	Broken core, 25 cm pieces

SHAPE (Geotech)	
PL	Planar
CU	Curved
UN	Undulose
ST	Stepped
IR	Irregular

APPENDIX 2

DISK (ASCII comma delimited format)

With All Vacuum Sample Logs And Assay Results

APPENDIX 3
Environmental Register

TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
LAND STATUS RECORD

Project: Pine Creek

Tenement Name: Harriet Creek, **Loc. Code:** UR25,
 Ragamuffin, UR32

Tenement No's: EL's 9468, 9552

Registered Holder(s): AngloGold Ltd

Date Granted: See report **Term:** See report **Area:**

Bond/Security: Nil

JV Partners (if any): Nil

Land Classification: (Crown, Private, Lease) Lease

Land Holder/Occupier: Gary Hamilton (Equest Pty Ltd) **Station:** Mary River West

Address: 9 Pall Mall, Currumbin, QLD **Phone:** (075) 534 7408

Contacted By: E Wakefield **Date:** 12/3/1996

Pastoral Notes: (Stock, Cultivation, Access, Rainfall)
 Open grazing land, little evidence of domestic livestock.
 Access via the Stuart Highway, the North Australia Railway Easement or any number
 of unmarked bush tracks

Environmental Notes: (Flora/Fauna, Erosion, Bushfires, Flooding)
 Open tropical savannah. Prone to flooding during the wet, access difficult during the
 wet.

Groundwater: (Bores/Wells/Dams, streams, drainage, test data)

Aboriginal Notes: (Sacred Sites, Cultural)
 Within EL 9468, there is 1 registered site No.5270-30. Within EL 9552, there is 1
 site 5270-2. Registered site 5270-15 is along the boundary of EL 9552 (refer Figure
 8)
 Currently covered by AAPA certificate C98/149 which expires on 18th Dec 2000.

Historic Relics: (Mine Workings, Equipment, Homesteads etc.)
 Nil

Previous Activity: (Mining, Exploration, Forestry, etc.)
 Nil

TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
PRE-EXISTING ENVIRONMENTAL DISTURBANCE RECORD

Tenement Name: Harriet Creek Ragamuffin **No(s):** EL 9468,
EL 9552

Exploration Activity Area:

Shafts/Pits/Dumps: Nil

Track/Access: Kakadu Highway, North Australia Railway Easement
and numerous bush tracks.

Line Clearing: Nil

Costeaining: Nil

Drill Sites: Nil

Other: Nil

Location Data: AngloGold database

Other Ref:

Compiled by: Niki Vela **Date:** October 1997

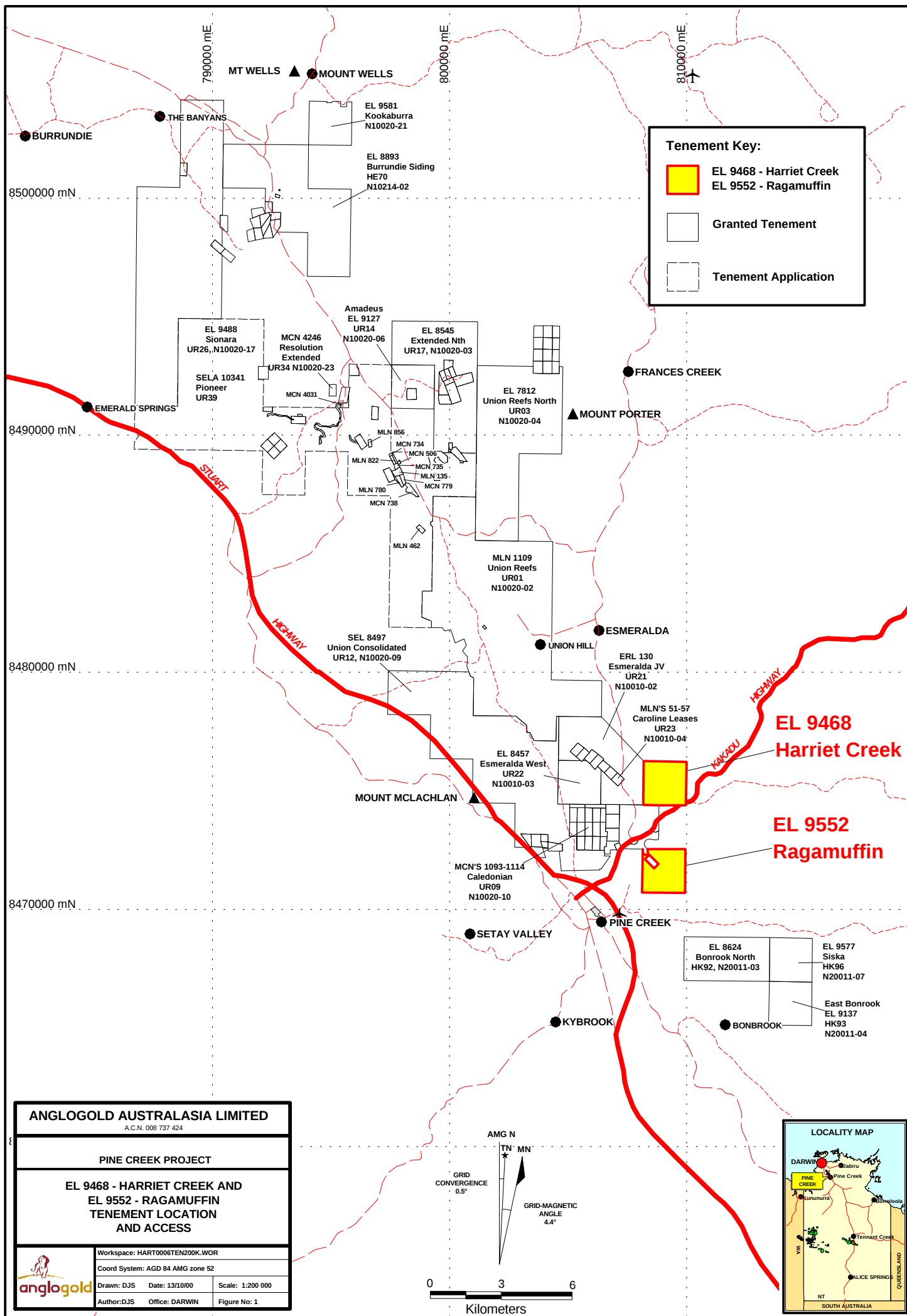
Updated: Damien Stephens October 2000

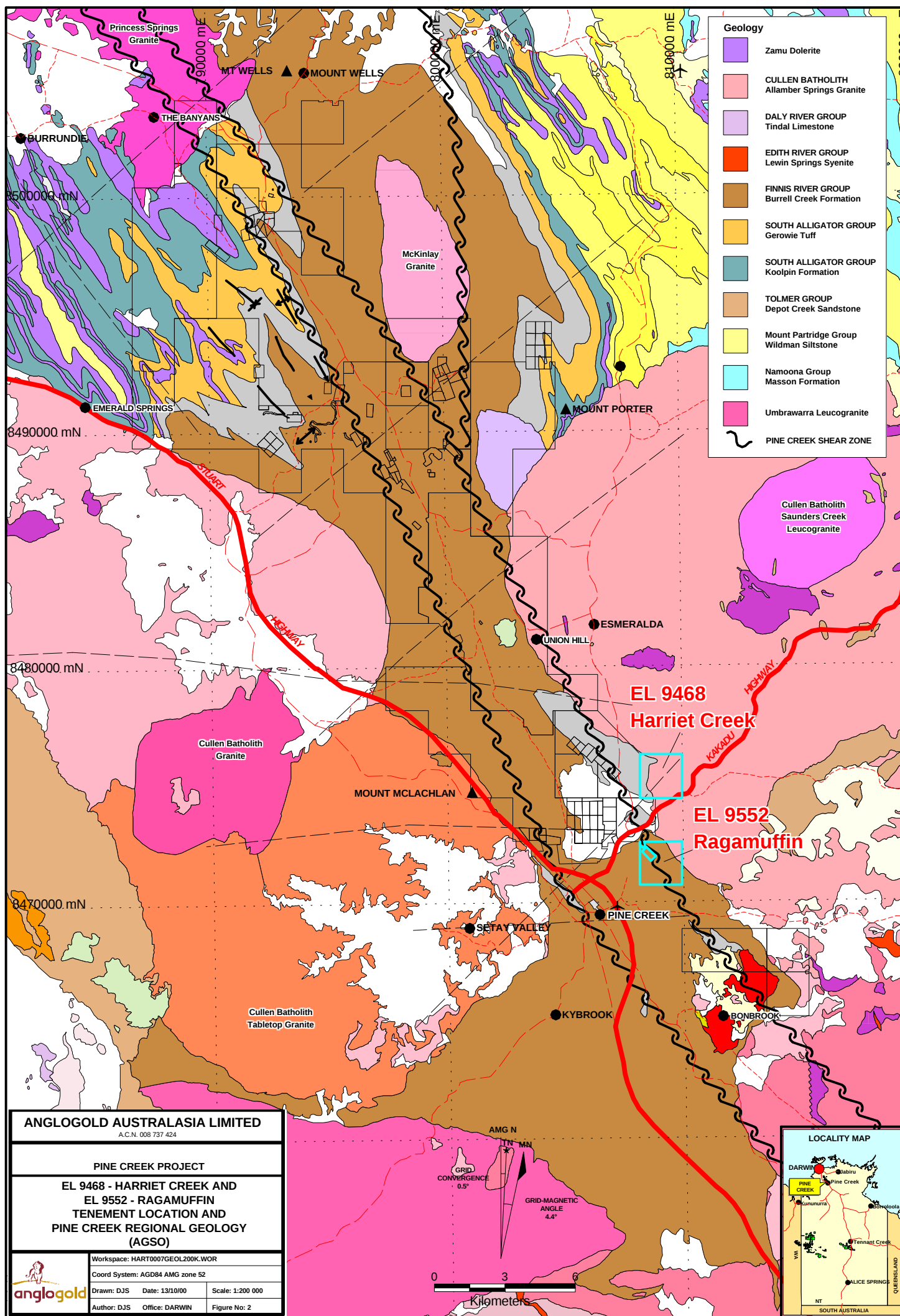
TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
ANGLOGOLD ENVIRONMENTAL IMPACT RECORD

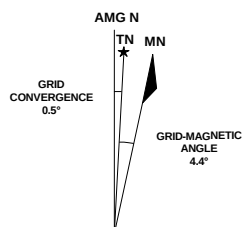
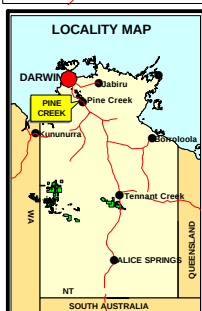
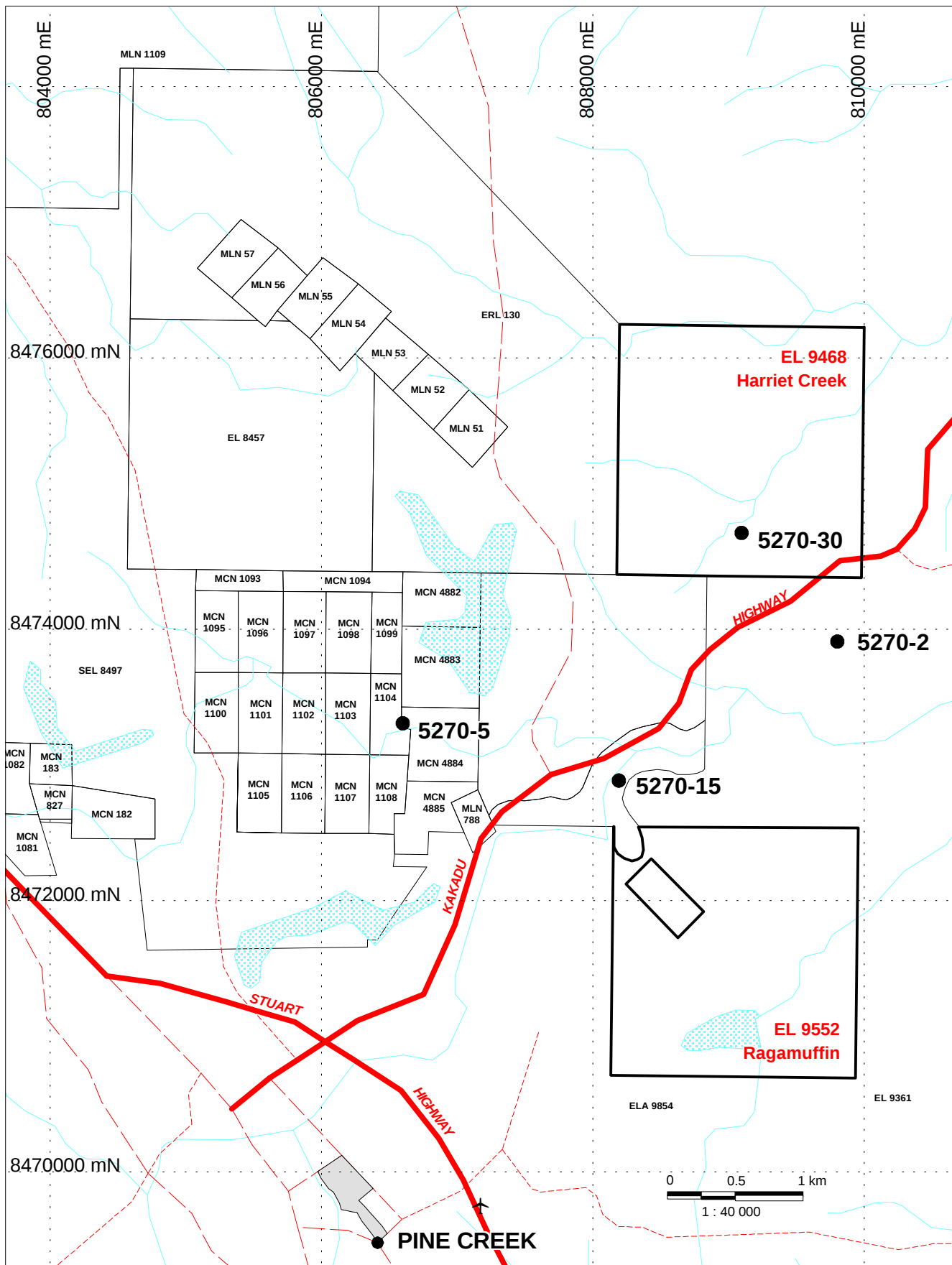
<u>Tenement Name:</u>	Harriet Creek Ragamuffin	<u>No(s):</u> EL 9468 EL 9552
<u>Report Ref No's:</u>	08.8949 08.10956 08.9646 08.10563	
<u>Exploration Activities:</u>	1996/97: Gridding, hand and auger sampling 1999/2000: Vacuum soil sampling	
<u>Grids & Traverses:</u>	1996/97: ~11 line km of cross line gridding marked at 200m x 50m spacing with galvanised fence droppers. 1997/98: 8.75 line km of cross line gridding with galvanised fence droppers	
<u>Soil Sampling:</u>	1996/97: ~390 spot soil samples collected. 1997/98: 85 auger soil samples	
<u>Costeans / Pits:</u>	1997/98: ~300m costeans	
<u>Drilling:</u>	1997/98: 1103m vacuum 1998/1999 293m RC Drilling (7 holes) 1999/2000 39 Vacuum holes	
<u>Drill Traverses:</u>	1 drill traverse	
<u>Drill Pads:</u>	7 drill pads	
<u>Ground Geophysics:</u>	Nil	
<u>Access Tracks:</u>	Minor access tracks off existing gridline to access RC drill sites	
<u>Camps:</u>	Nil	
<u>Other:</u>	Nil	
<u>Compiled by:</u>	Jane Ham	<u>Date:</u> October 1998
<u>Revised by:</u>	Penny Large Damien Stephens	<u>Date:</u> September 1999 October 2000

TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
ACACIA REHABILITATION RECORD

<u>Tenement Name:</u>	Harriet Creek Ragamuffin	<u>No(s):</u>	EL 9468 EL 9552
<u>Disturbance:</u>	Minor Surficial, 7 RC holes		
<u>Rehabilitation:</u>	Ongoing		
<u>Grids & Traverses:</u>	Fence droppers at 400 or 200 x 50m still in the field.		
<u>Soil Sampling:</u>	Sample sites backfilled immediately after sampling.		
<u>Costeans/Pits:</u>	Backfilled immediately due to abandoning of program		
<u>Drilling:</u>	Vacuum holes backfilled immediately after sampling RC drill pads rehabilitated on completion and residual Plastic sample bags removed to bag farm		
<u>Drill Traverses:</u>	Natural rehabilitation		
<u>Drill Pads:</u>	Top soil returned		
<u>Access Tracks:</u>	Nil		
<u>Inspected / Clearance:</u>			
<u>Bond/Security released:</u>	NA		
<u>Compiled by:</u>	Jane Ham	<u>Date:</u>	October 1998
<u>Revised by:</u>	Penny Large	<u>Date:</u>	September 1999







Key:

● 5270-15.....Aboriginal Site

ANGLOGOLD AUSTRALASIA LIMITED

A.C.N. 008 737 424

PINE CREEK PROJECT

**EL 9468 HARRIET CREEK AND
EL 9552 RAGAMUFFIN
AAPA REGISTERED SACRED SITES**

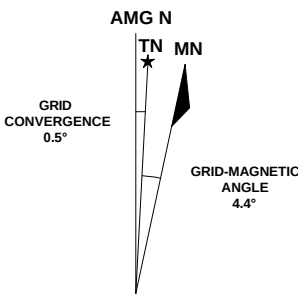
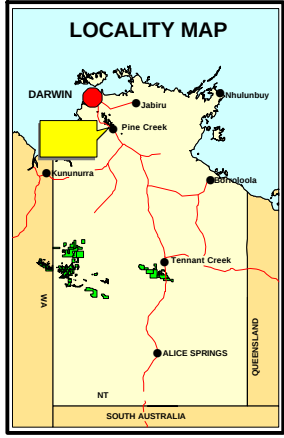
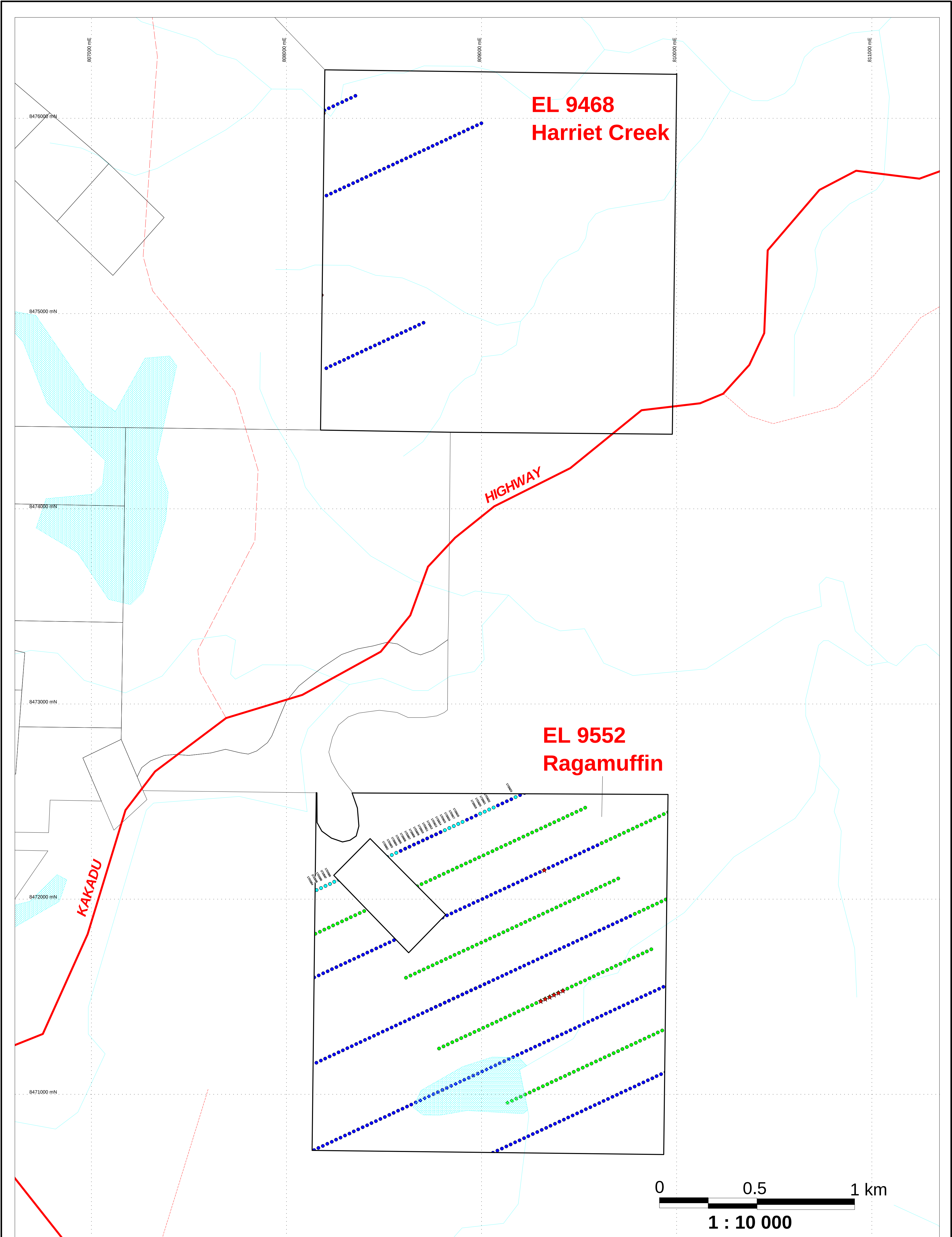


Workspace: HART0010ABOTH.WOR

Coord System: AGD84 AMG zone 52

Drawn: DJS Date: 16/10/00 Scale: 1:40 000

Author: DJS Office: DARWIN Figure No: 3

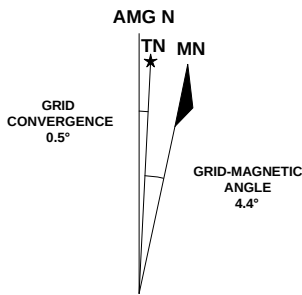
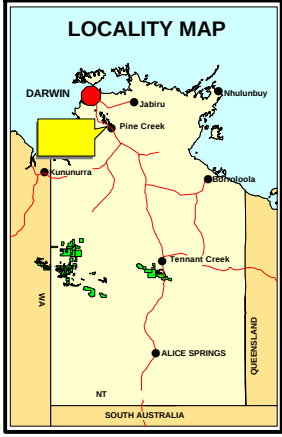
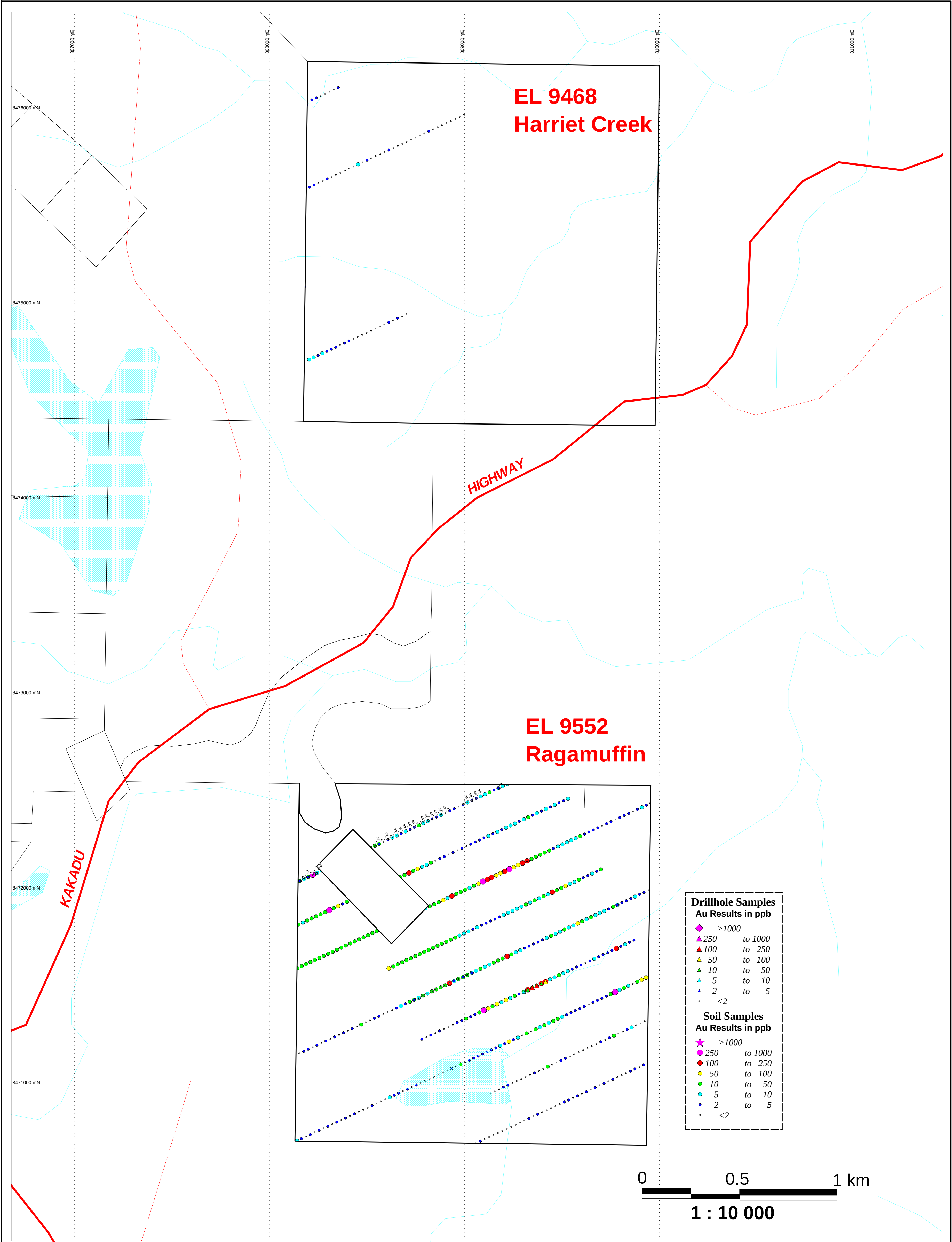


Sample Type

- AUGER
- PHVAC
- VACUUM
- ★ RC

*Sample number denotes this reporting period

ANGLOGOLD AUSTRALASIA LIMITED A.C.N. 008 737 424		
PINE CREEK PROJECT		
EL 9468 HARRIET CREEK AND EL 9552 RAGAMUFFIN SOIL AND DRILLHOLE SAMPLE LOCATIONS WITH SAMPLE NUMBERS		
	Workspace: HART0009GEOC10K.WOR	
	Coord System: AGD84 AMG zone 52	
	Drawn: Date: 16/10/00 Scale: 1:10,000	
	Author: DJS	Office: DARWIN Figure No: 4



*Sample result denotes this reporting period

ANGLOGOLD AUSTRALASIA LIMITED A.C.N. 008 737 424		
PINE CREEK PROJECT		
EL 9468 HARRIET CREEK AND EL 9552 RAGAMUFFIN SOIL AND DRILLHOLE SAMPLE LOCATIONS WITH RESULTS AU PPB		
	Workspace: HART0008GEOC210K.WOR	
	Coord System: AGD84 AMG zone 52	
	Drawn:	Date: 18/10/00
	Author: DJS	Office: DARWIN
	Scale: 1:10,000	Figure No: 5