



## **Rio Tinto Exploration Pty. Limited**

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

**First Annual Report  
for the Period 5 July 2002 to 4 July 2003,  
EL10103 Warramana, EL10317 Yalco,  
and EL10329 Yalco 1,  
McArthur Base Metals Program,  
Bauhinia Downs SE-5303 & Mt Young SD-5315  
Northern Territory**

**Exploration Report No. 26172**

Tenement Holder:	Rio Tinto Exploration Pty Limited
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## **SUMMARY OF ACTIVITIES**

Exploration Licences 10103 Warramana, 10317 Yalco and 10329 Yalco 1 are located within the McArthur Basin of northern Australia, approximately 25 km northwest of Borroloola, on the Bauhinia Downs and Mt Young 1:250,000 map sheets, Northern Territory. The tenements were acquired as a result of Rio Tinto's takeover of North Mining Ltd during 2000. All three tenements were granted on 5<sup>th</sup> June 2002 for a period of six years.

The Warramana ("*Fandango prospect*") and Yalco ("*Yalco prospect*") tenements are considered prospective for base metal mineralisation (Pb-Zn-Ag) given their proximity and similar stratigraphy and geological setting to the McArthur River (HYC) base metal mine, operated by MIM Holdings Ltd (now part of Xstrata Plc).

Rio Tinto Exploration Pty Limited (RTE) conducted site heritage clearance surveys, geophysical surveying over a part of Warramana EL 10103, geological mapping at each prospect, RC drilling (12 holes at each prospect), a petrologic report on core from Fandango prospect, and rehabilitation of tracks and drill pads.

Intervals of anomalous base metal geochemistry were identified on Warramana EL10103 (Fandango), with the best intersection of 69m @ 1087 ppm Zn in drill hole RC02FAN006. No significant results were reported from Yalco prospect.

A review in 2002 by RTE of its base metal projects in the McArthur Basin resulted in the decision to divest EL's 10103, 10317 and 10329. Negotiations were being held with interested parties at the time of reporting.

**VERIFICATION LISTING**

Exploration Work Type	File Name	Format
<b>Office Studies</b>		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	26172 Warramana.pdf	.pdf
Other (specify)	WAp45702.pdf (Tenement Location Plan) Petrology Report.pdf	.pdf .pdf
<b>Airborne Exploration Surveys</b>		
Aeromagnetics		
Radiometrics		
Electromagnetics	Numerous	.Pdf, tem, map, asc, doc
Gravity		
Digital terrain modelling		
Other (specify)		
<b>Remote Sensing</b>		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
<b>Ground Exploration Surveys</b>		
<b>Geological Mapping</b>		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
<b>Ground Geophysics</b>		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
<b>Geochemical Surveying</b>		
Drill sample	Yalco Assay Data.pdf Fandango Drill Assay Data.pdf	.pdf .pdf
Stream sediment		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
<b>Drilling</b>		
Aircore		
Auger		
Diamond	Yalco Drill Collar Info.pdf Yalco Drill Lith Logs.pdf Fandango Drill Collar Info.pdf Fandango Drill Lith Logs.pdf	.pdf .pdf .pdf .pdf
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling	WAp45707.pdf (Exploration Activities)	.pdf
<b>File Verification Listing (this table)</b>	26172 Warramana V.pdf	.pdf

