



Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

Annual Report
for the Period Ending 17 May 2007,
EL 22413 Baiguridji River
Blue Mud Bay SD 5307,
Northern Territory

Exploration Report No. 28064

Tenement Holder:	Rio Tinto Exploration Pty Limited
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1 SUMMARY

Exploration Licence (EL) 22413 Baiguridji River was applied for by Rio Tinto Exploration Pty Limited (RTE) on the 11th of February 2000 and was granted on 18th May 2006. RTE is the sole manager and operator of this tenement. The original tenement application covered an area of 117 km² (35 sub blocks) of which only 66.9 km² (20 sub blocks) was granted. The remainder of the application area was rejected. EL 22413 is located 150 km southwest of Nhulunbuy, east Arnhem Land, and consequently is processed under the Aboriginal Land Rights Act 1975 (ALRA).

This first annual report describes the exploration completed during the first year of the tenement and includes geologic and previous exploration reviews, land access negotiations and work programme development and meetings. EL 22413 forms part of the larger contiguous tenement package in east Arnhem Land, which is prospective for bauxite and base metals.

EL 22413 covers part of the subtle plateaus south of the Frederick Hills, and east of the Mitchell Ranges. This area has undergone a similar geomorphological history to that of the Cato Plateau, which is a known area of bauxite mineralisation of similar style to the nearby world class Gove deposit. The area is also considered prospective for base metal mineralisation similar to that of McArthur River (HYC) in the McArthur Basin. Diamonds are a subsidiary target.

Exploration was focused on:

- Review of previous exploration.
- Review of geology and geomorphology.
- Work programme development.
- Completion of consultation meetings.

Carrying out the work programme was deferred due to the consultation meetings being completed in late September 2006, by which time the field season was rapidly closing. Mapping, access track construction and drilling will be conducted in year two (2007).

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	EL 22413_Baiguridji River_Annual	.pdf
Other (specify)	pAI07_014 (Tenement Location Plan)	.pdf
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground Geophysics		
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)		
Geochemical Surveying		
Drill sample		
Stream sediment		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	EL 22413_Baiguridji River_Annual V.pdf	.pdf