

Rio Tinto Exploration Pty. Limited

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A member of the Rio Tinto Group

Annual Report
For the Period 18 May 2007 to 17 May 2008
EL 22413 Baiguridji River
Blue Mud Bay SD 5307
Northern Territory

Exploration Report No. 28252

Tenement Holder: Rio Tinto Exploration Pty Limited

Date: June 2008

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Submitted: I M Clementson

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RTX Perth Information Centre

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Annual Report for the period 18 May 2007 to 17 May 2008, EL 22413 Baiguridji River, Blue Mud Bay SD 5307, Northern Territory.

Report No. 28252

Page 2

SUMMARY OF ACTIVITES

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

This second annual report describes the exploration completed during the second year of the tenement, however this is the first year of ground work and included access track improvement and an aircore drill programme. 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.
- Access track improvement
- Geologic Reconnaissance
- Aircore drill programme (five holes for 24m).

Annual Report for the period 18 May 2007 to 17 May 2008, EL 22413 Baiguridji River, Blue Mud Bay SD 5307, Northern Territory.

Report No. 28252

Page 3

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies	The Name	Tornat
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	28252 Baiguridji River	.pdf
Other (specify)	pAI07_014.pdf (Tenement Location)	.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	BaiguridjiRiver_2007_A_04_downholegeochem.txt	.txt
Stream sediment		
Soil		
Rock chip		
Regolith Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
	pAl08_009 Exploration Summary Plan	.pdf
Aircore	BaiguridjiRiver_2007_A_02_drillcollars.txt	.txt
Augus	BaiguridjiRiver_2007_A_03_lithology.txt	.txt
Auger		
Diamond Reverse circulation		
Reverse circulation		
Rotary paraussian		
Rotary percussion		
Tungsten carbide bit (coring) Groundwater drilling		
All drilling		
File Verification Listing (this table)	28252 Baiguridji River V.doc	.doc
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Annual Report for the period 18 May 2007 to 17 May 2008, EL 22413 Baiguridji River, Blue Mud Bay SD 5307, Northern Territory.

Report No. 28252

Page 4