



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

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

**Combined Annual Report (Cato Project)  
For the Period 14 October 2006 to 13 October 2007  
EL 4170 Cato Plateau & EL4171 Cato River  
Gove Special SD 5304  
Northern Territory**

### **Exploration Report No. 28208**

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Distribution:	Department of Primary Industry, Fisheries & Mines, NT RTX Perth Information Centre BHPB Perth

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## **SUMMARY OF ACTIVITES**

Exploration Licence (EL) 4170 Cato Plateau and EL4171 Cato River were applied for by BHP Minerals Pty Ltd (BHP) on 3 October 1982. EL4170 was granted on 14 October 2004, EL4171 was granted on 12 September 2005. Rio Tinto Exploration Pty Limited (RTX) signed an agreement with BHP on 27 March 2000 whereby RTX took over management and ownership of the tenements. The original EL4170 tenement application covered an area of 593.5km<sup>2</sup> of which only 57.0km<sup>2</sup> was granted. The original EL4171 tenement application covered an area of 846.0km<sup>2</sup> of which 598.2km<sup>2</sup> was granted. The remainder of the area was split off into a new application, EL24389 and put into moratorium. The tenements are located 30km west of Nhulunbuy, east Arnhem Land and consequently are processed under the Aboriginal Land Rights Act 1975 (ALRA). Combined reporting of EL4171 and EL4170 was granted on 3 August 2007, and called the 'Cato Project'. The Cato Project forms part of the larger contiguous tenement package in east Arnhem Land, which is considered prospective for bauxite.

This combined annual report describes the exploration completed during the third tenure year of EL4170 and the second tenure year of EL4171. It includes results of aircore drilling undertaken by RTX the 2007 field season.

The Cato Project covers a spur of the Cato Plateau, which is a known area of bauxite of similar style to the nearby world class Gove deposit. It also covers extensions of subtle, coastal plateaus and a small isolated plateau.

Exploration is focused on testing the area for bauxite. Work completed during the period included:

- Aircore Drilling - 72 holes were drilled for a total of 517m (see plan pAI07\_023)
- Collection of 13 grab samples (see plan pAI07\_025)

**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	EL4170_EL4171_Cato Project_Annual pAI07_011 (Location plan) pAI07_024.pdf (Cato project targets) WAp46452 (location of plateau)	.pdf .pdf .pdf
Other (specify)		
<b>Airborne Exploration Surveys</b>		
Aeromagnetics		
Radiometrics		
Electromagnetics		
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		
Stream sediment		
Soil		
Rock	pAI07_025 (Rock location plan)	.pdf
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
<b>Drilling</b>		
Aircore	pAI07_023.pdf (drill hole location plan) CatoProject_2007_A_02_drillcollars CatoProject_2007_A_03_lithology CatoProject_2007_A_04_downholegeochem	pdf txt txt txt
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
<b>File Verification Listing (this table)</b>	28208 Cato V	.pdf

