

# **Eighth Annual Report**

**on**

## **EL 9/2010 – Deloraine**

**Reporting Period:** 14 September 2017 – 13 September 2018

**Project Operator:** ABx4 Pty Ltd

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# 1 ABSTRACT

## Objective

Exploration Licence EL9/2010 “Deloraine” was applied for by ABx4 Pty Ltd (ABx4) in order to facilitate an exploration program to discover economically viable deposits of bauxite associated with Tertiary Volcanics and Jurassic Dolerite, in an area with old peneplained surfaces preserved as plateaus. The goal of the program is to determine the quality and quantity of the bauxite in the area using an RC drill rig mounted on a light Mitsubishi 12 tonne truck.

## Exploration Methodology

1. Detailed geological mapping, including geomorphological mapping, to define the areas with best potential for bauxite.
2. Systematic sampling of natural outcrops and exposures in road cuts of bauxite profile.
3. Chemical analyses of samples, including specialist analyses to determine total and available alumina, total and reactive quartz, loss on ignition and other analyses as required in bauxite search.
4. Drill testing of zones with best potential defined by work under 1, 2. and 3, by an RC drill rig mounted on a light truck to get samples representing the whole bauxite profile.
5. Systematic drill testing at close spacings to obtain data for resource estimation in the best target areas defined by programme under 4.

## Results

Unfortunately works on EL9/2010 during the current annual reporting period were limited to report preparation and tenement administration activities.

## Recommendations for future work

The following exploration activities are planned for EL 9/2010:

- Comprehensive desktop review to select site for DL-130 Pit Test Programme.
- Preparation of activity approval for DL-130 Pit Test Programme.
- Completion of the DL-130 Test Pit Programme.

## 2 INTRODUCTION

### Exploration Rationale

EL 9/2010 “Deloraine” was applied for in order to facilitate an exploration program to discover economically viable deposits of bauxite associated with Tertiary Volcanics and Jurassic Dolerite in an area with old peneplained surfaces preserved as plateaus. The goal of the program was to determine the quality and quantity of the bauxite in the area using an RC drill rig mounted on a light 12 tonne truck.

### Geological Setting

The historic work done by H.B. Owen (‘Bauxite in Australia’, 1954) demonstrated that bauxite in Tasmania can be found in both Jurassic Dolerite and Tertiary Basaltic Volcanics. According to Owen, these bauxite deposits - regardless of parent rock type - are thought to form either as ‘grouped remnants of former continuous sheet’ or ‘formed in lenticular or pod shaped bodies in localised depressions’.

### Tenement Information

EL 9/2010 “Deloraine” was granted on and from 14 September 2010 for a period of 5 years to ABx4. Two 12-month applications were submitted and approved extending the expiry to 13 September 2017.

On 21 March 2017, adjacent ABx4-held tenement EL37/2010 “Westbury” was consolidated into EL9/2010 “Deloraine” enlarging the tenement area to 211 km<sup>2</sup>.

In 2017, a two-year Extension of Term application was submitted and approved for EL9/2010 which now expires on 13 September 2019.

This is the Eighth Annual Report for the reporting period 14 September 2017 - 13 September 2018 incorporating the results of work completed during the eighth year of tenure.

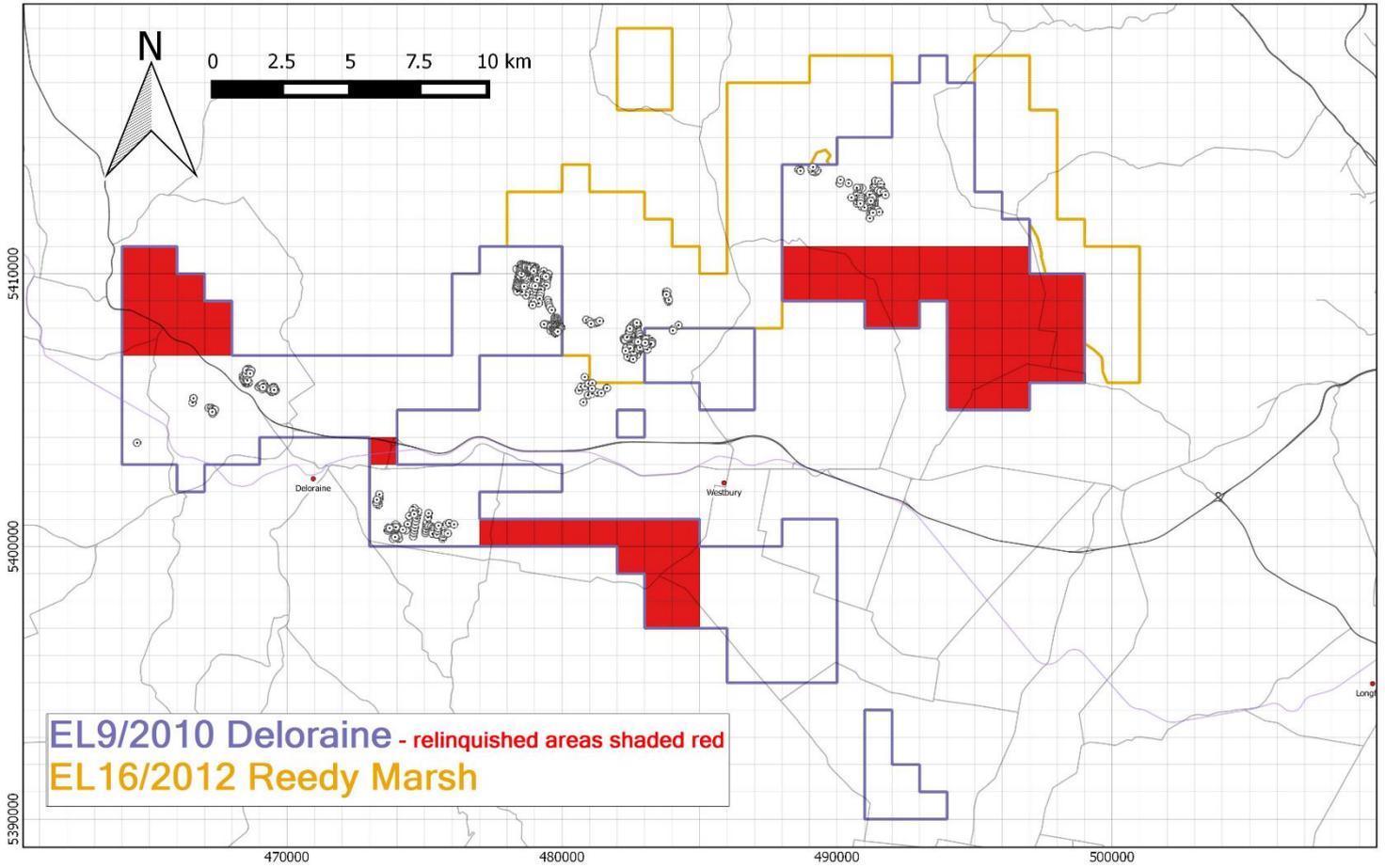
The Mineral Category of EL 9/2010 is 1 – Metallic Minerals and Atomic Substances.

### Location

EL 9/2010 is located around the town of Deloraine where there is a rail line which connects all the ports of Tasmania. Ports and rail way lines in Tasmania are generally under capacity and the Deloraine Tenement is only 42km from Devonport. EL 9/2010 is close to the city of Launceston and could offer a wide range of services and skilled work force.

### Tenure, including joint venture details and title transfers

EL 9/2010 “Deloraine” is 100% owned by ABx4 which is a wholly-owned subsidiary of Australian Bauxite Limited.



Map 1. Location of EL 9/2010 "Deloraine" and recently relinquished areas. Previous ABx4 drillholes shown as black circles. Datum GDA94 (MGA94 Zone 55).

### **3 REVIEW OF PREVIOUS WORK**

#### **Prior to Current Reporting Period**

In the years prior to the current annual reporting period a total of 388 reverse circulation (RC) holes were drilled for a total of 2,921 metres. A total of 2,025 drill hole samples have underwent specialist chemical analysis at ALS Laboratories, Brisbane. 1,432 of these tests involved wet sieving of the drill sample at +0.26mm prior to analysis, with the remaining samples being tested unsieved.

Another 1,062 assays on drilling samples were conducted in-house using a hand-held Niton XRF device.

The majority of holes drilled - and samples assayed - originate from ABx4's "DL-130" (formerly "Blackwood") deposit, including its southern extension "DL-130 South". The greater DL-130 area has a JORC-compliant inferred resource base of 5.7 million tonnes of bauxite. The DL-130 bauxite is derived from both volcanics and Dolerite.

Additional Drilling was completed in the western part of the Historical Rosevale Target, where minor volcanogenic and doleritic bauxite's were intersected. EL9/2010 is contiguous with EL37/2010 which hosts the majority of the Rosevale bauxite Target.

A great amount of field reconnaissance, geological mapping and surface sampling (for chemical analysis) has been undertaken and has allowed geologists to prioritise targets for drilling and/or other works. Numerous botanical surveys have been undertaken during the term of the exploration licence.

## **4 EXPLORATION COMPLETED DURING THE REPORTING PERIOD**

### **Regional Exploration Activities**

Unfortunately works on EL9/2010 during the current annual reporting period were limited to report preparation and tenement administration activities.

## **5 DISCUSSION OF RESULTS**

Unfortunately works on EL9/2010 during the current annual reporting period were limited to report preparation and tenement administration activities.

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## **6 CONCLUSIONS AND RECOMMENDATIONS**

The EL9/2010 tenement remains a highly prospective area for bauxite exploration. Exploration activities are expected to continue within the next annual reporting period.

### **Recommendations for future work**

The following exploration activities are planned for EL 9/2010:

- Comprehensive desktop review to select site for DL-130 Pit Test Programme.
- Preparation of activity approval for DL-130 Pit Test Programme.
- Completion of the DL-130 Test Pit Programme.

## **7 ENVIRONMENT**

### **Surface Disturbing Operations:**

No surface disturbance activities were carried out in the current annual reporting period.

### **Surveys (archaeological, botanical):**

No surveys were undertaken within the current annual reporting period.

### **Rehabilitation**

No rehabilitation was required within the current annual reporting period.

## 8 EXPENDITURE

Table 1. Exploration expenditure for EL9/2010 over the 8<sup>th</sup> annual reporting period.

EL 9/2010 Deloraine - Expenditure over 8th Year of Tenure		
1. Geoscientific costs		
Geology		\$2,500
Geochemistry		
Geophysics		
Remote sensing		
2. Drilling and Gridding Costs		
Gridding		
Drilling		
	Holes/metres	
3. Land Access Costs		
4. Rehabilitation Costs		
5. Feasibility Study Costs		
6. Other Costs		
7. Administration Costs (< 10%)		
8. Total Costs		
		\$2,500

Note: Office Administration was met by parent company – Australian Bauxite Limited.

## 9 REFERENCES

Miss S.E. Close, Feb 1970, Scintillometer Search for Bauxite, Northwest Tasmania, *CRA Exploration Pty Limited*

Miss S.E. Close, June 1971, Final Report on Bauxite Search, Devonport E.L. 36/70 Tasmania, *CRA Exploration Pty Limited*

H. B. Owen (1954). *Bauxite in Australia*, Bureau of Mineral Resources Bulletin no. 24

H. B. Owen (1946). *Report on Bauxite, near Rosevale Country Devon Tasmania*, Bureau of Mineral Resources