

**Final Report**  
**on**  
**EL 4/2013 – Tunross West 1**

**Reporting Period:** 10 September 2013 – 9 September 2014  
**Project Operator:** ABx4 Pty Ltd  
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**Date:** 25 August 2014

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# 1 ABSTRACT

## **Objective:**

Exploration Licence (EL) 4/2013 “Tunross West 1” was applied for in order to facilitate an exploration program to discover economically viable deposits of bauxite. 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 Mitsubishi 12 tonne truck.

## **Methodology:**

1. Detailed geological mapping, including geomorphological mapping, to define the areas with best potential for bauxite.
2. Systematic sampling of natural outcrops, exposures in road cuttings and specialist bauxite analyses to determine total and available alumina, reactive silica and loss on ignition and other analyses required for bauxite search.
3. Drill testing of selected areas by a 4WD-mounted drill rig or equivalent.

## **Results**

No bauxite was observed during the 2-day field trip in August 2014, which covered the main thoroughfares throughout the Tunross West 1 tenement including areas of mapped Jurassic dolerite. Since the bauxite prospectivity of the area was deemed to be very low, exploration did not advance to further stages.

## **Recommendations for future work:**

A recommendation was made to management to relinquish EL 4/2013 Tunross West 1 based on results of exploration and management accepted the recommendation.

## 2 INTRODUCTION

### Exploration Rationale

ABx4 Pty Ltd – the holder of Category 1 Exploration Licence 4/2013 – is a wholly-owned subsidiary of Australian Bauxite Limited. Australian Bauxite Limited (ABx)(ASX:ABX) is an exploration company that holds the core of the Tasmanian Bauxite Province with all tenements selected on 3 principles:

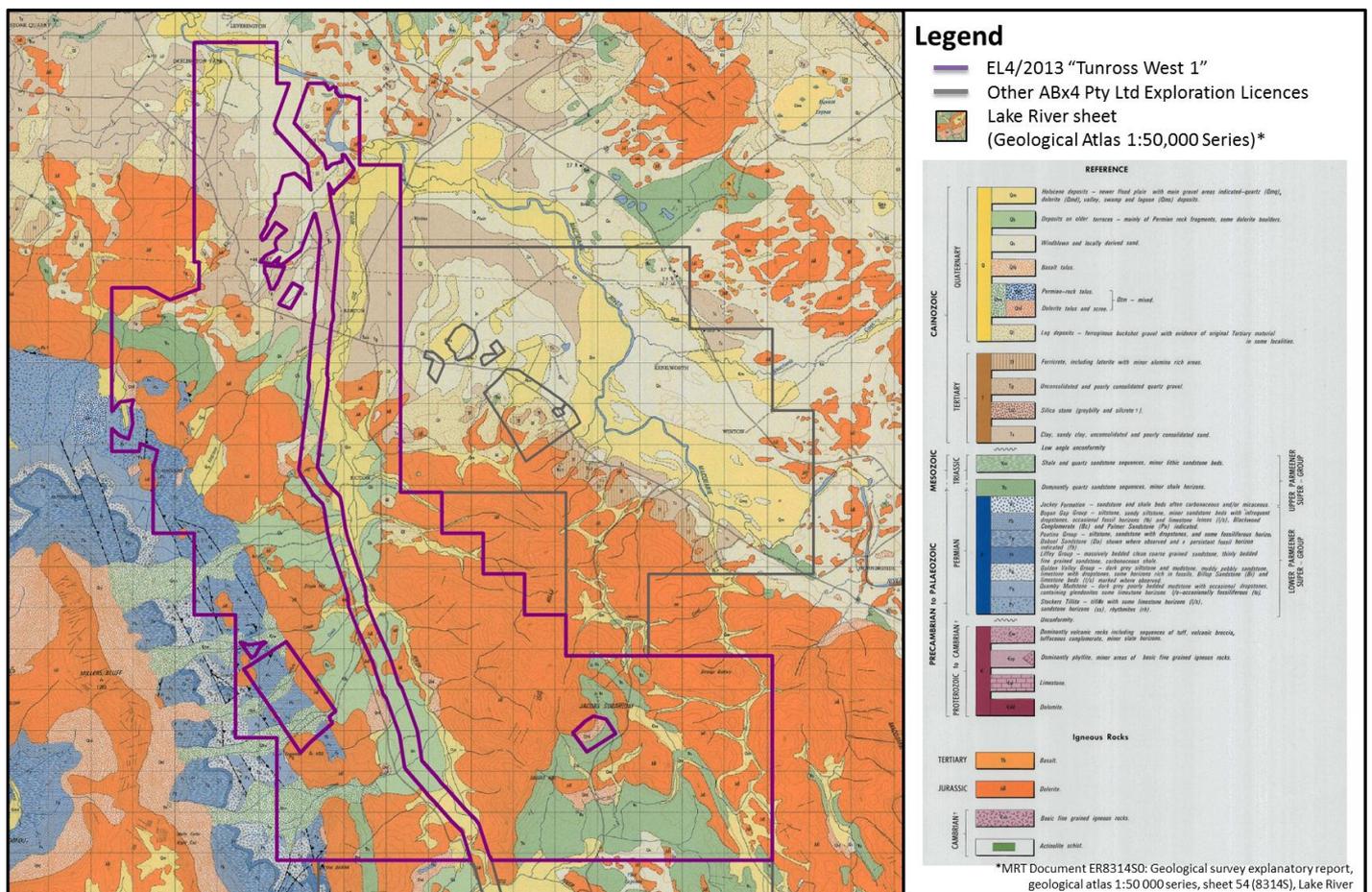
- Quality – good quality bauxite with potential for significant resources tonnages;
- Proximity – easy access to infrastructure connected to export ports; and
- Accessibility – free of socio-environmental or native title land constraints.

Exploration Licence (EL) 4/2013 “Tunross West 1” was applied for in order to facilitate an exploration program to discover economically viable deposits of bauxite. 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 Mitsubishi 12 tonne truck.

### Geological Setting

Bauxite in Tasmania is generally associated with Tertiary (basaltic) volcanics and/or Jurassic dolerite.

On the Lake River sheet of the 1:50,000 Geological Atlas Series, Jurassic dolerite is mapped throughout most of the Tunross West 1 tenement along with various sedimentary units.



Map 1. EL 4/2013 overlying the Lake River sheet of the 1:50,000 geological atlas series. Datum: ADG66.

**Tenement Information**

EL 4/2013 “Tunross West 1” was granted on and from 10 September 2013 for a period of 5 years to ABx4 Pty Ltd (**ABx4**). Total area of the Licence is 135 sq km and its Mineral Category is 1 – Metallic Minerals and Atomic Substances.

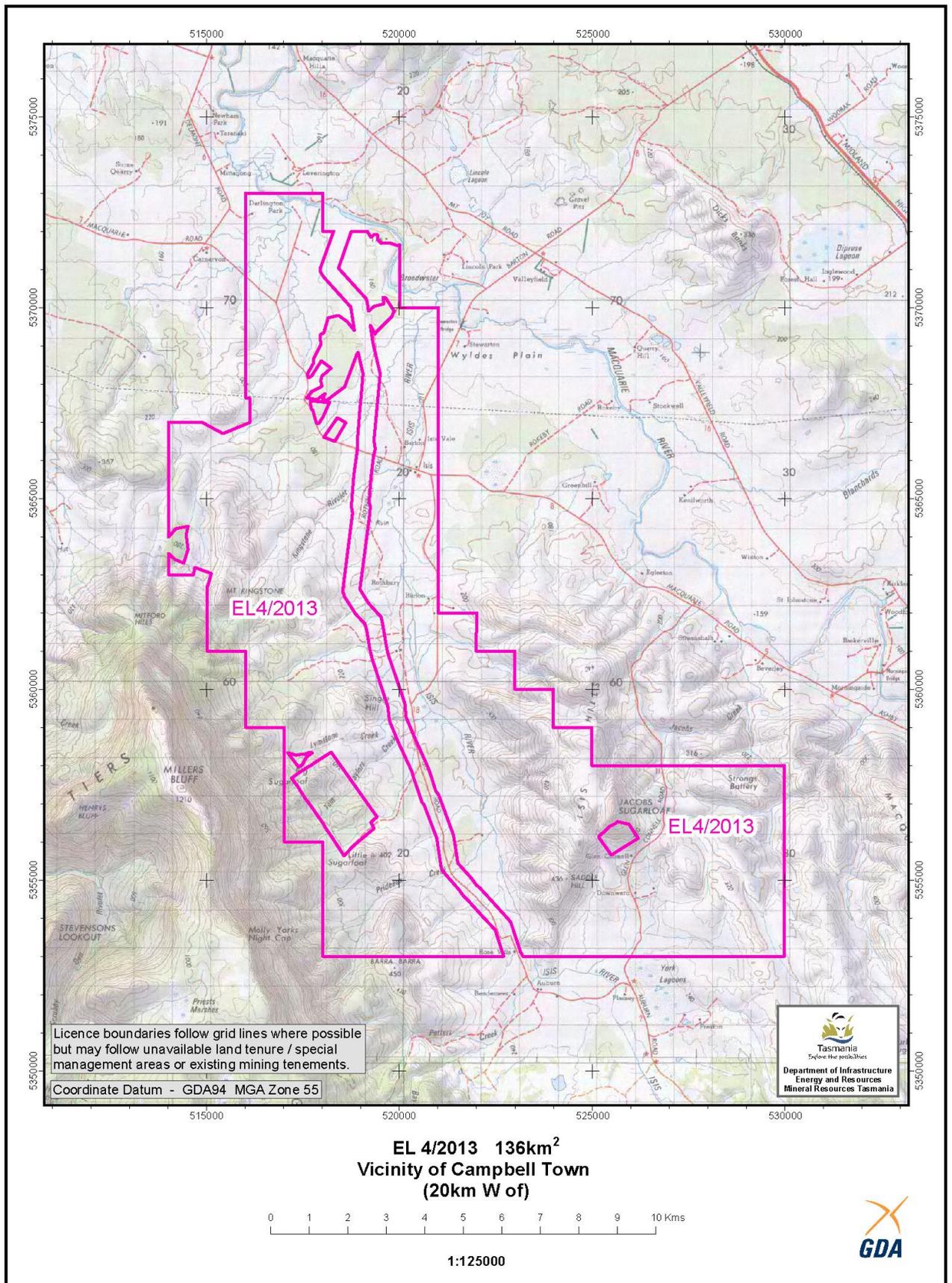
This is the Final Report for the reporting period 10 September 2013 – 9 September 2014 incorporating the results of work completed during the first year of tenure.

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

EL 4/2013 “Tunross West 1” is 100% owned by ABx4 which is a 100%-owned subsidiary of Australian Bauxite Limited.

**Location**

Tunross West 1 is located 18km west/south-west of the Conara railway junction and Midland Highway, both capable of transport to either Hobart or Bay Port. Tunross West 1 is located just 50km south of Launceston which could provide a wide range of services and skilled work force.



Map 2. Location Map of EL 4/2013 "Tunross West 1". Datum: GDA94 MGA Zone 55.

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

#### **Prior to Current Tenement**

A search of historic literature found that there are no records of bauxite exposures, outcrops, resources, etc., within the Tunross 1 area. However, it is known that work was done in the nearby Campbell Town / Conara area – about 18km to the east – by H.B. Owen in his book “Bauxite in Australia”, 1953 (Bulletin 24).

Of all the historic exploration licences previously covering the Tunross West 1 area, only (Category 1) EL6/1981 – held by Victor Petroleum & Resources Ltd – made references to bauxite exploration. The EL6/1981 Renewal & Progress Report (1981) contains a broad review of bauxite resources throughout its tenement area (much of the Tasmanian midlands) and made references to the work of H.B. Owen mentioned above.

#### **During current Tenement**

This is the first year of the exploration licence; all activities to date are outlined within this report.

## 4 EXPLORATION COMPLETED DURING THE REPORTING PERIOD

### Literature Review

H.B. Owen, 1954, Bauxite in Australia, Bulletin 24.

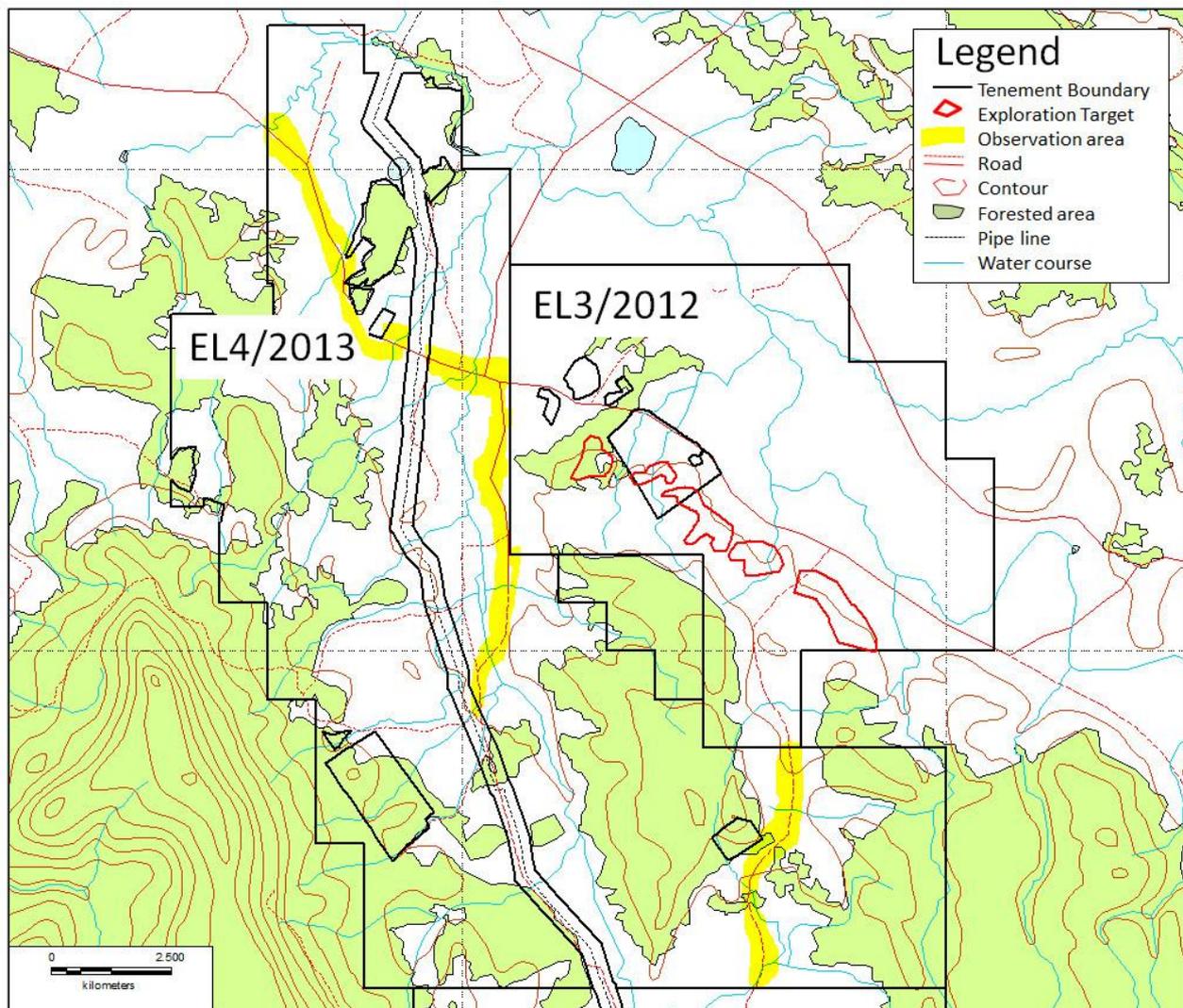
Victor Petroleum & Resources, Renewal & Progress Report (EL 6/1981), 1981

### Regional Exploration Activities

A desktop review was initially undertaken based on google Earth satellite imagery and available geological maps in order to identify exploration targets.

A 2-day field trip took place in August 2014 in which ABx4 geologists traversed the main thoroughfares of EL4/2013 in search of bauxite exposures. No bauxite occurrences were observed during this trip.

No drilling or surface sampling took place during the current term.



Map 3. EL 4/2013 Tunross West 1 showing public roads traversed by vehicle (yellow shaded areas). Datum: WGS84.

## **5 DISCUSSION OF RESULTS**

Due to the fact that no bauxite was observed during the 2-day field trip in August 2014, which covered the main thoroughfares throughout the Tunross West 1 tenement, the Tunross West 1 area appears to be much less prospective than other ABx4 tenements areas throughout Tasmania.

## 6 CONCLUSIONS AND RECOMMENDATIONS

Due to the fact that no bauxite was observed during the 2-day field trip in August 2014, which covered the main thoroughfares throughout the Tunross West 1 tenement, the Tunross West 1 area appears to be much less prospective than other ABx4 tenements areas throughout Tasmania.

### **Recommendations for future work:**

A recommendation was made to management to relinquish EL 4/2013 Tunross West 1 based on results of exploration and management accepted the recommendation.

## **7 ENVIRONMENT**

### **Surface Disturbing Operations:**

No surface disturbing operations took place during the reporting period. As no bauxitic rocks were identified, no samples were collected.

Travelling was done on existing tracks.

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

No Archaeological or botanical surveys were undertaken in the Tunross West 1 area.

### **Rehabilitation:**

There was no drilling or track construction and therefore nothing to rehabilitate.

## 8 EXPENDITURE

Table 1 – Exploration Activity and Expenditure Table for reporting period 10 September 2013 – 9 September 2014.

Exploration Category	Description of Activity	Quantity	Expenditure
<b>Office Administration</b>			\$50
<b>Authority Management</b>	Environment		\$250
<b>Office Activities</b>			\$200
<b>Field Activities</b>	<b>Geological Mapping</b>		
	Equipment Hire		230
	Accommodation/Field Camp	Days	200
	Travel	Vehicle Hire	
	Land Holder Liaison		
	Field Supplies		100
	Other		55
	<b>Geophysics</b>		
	Airborne		
	Type	Line kms	
	Ground		
	Type	Line kms	
	<b>Drilling (program cost)</b>		
	RAB/AC	Holes/total metres	
	RC	Holes/total metres	
	Diamond	Holes/total metres	
	Other	Holes/total metres	
<b>Laboratory</b>	ME-XRF 13B, Reactive Silica, Available Alumina		
<b>Salaries / Wages</b>	Employees	Geological	\$800
		<b>Grand Total</b>	<b>\$1,885</b>

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

## **9 REFERENCES**

H.B. Owen, 1954, Bauxite in Australia, Bulletin 24.

Company Report - Onshore 81\_1647: Tasmanian Exploration Licence - 6/81 Renewal and Progress Report to November 21, 1981

MRT Document ER8314S0: Geological survey explanatory report, geological atlas 1:50 000 series, sheet 54 (8314S), Lake River