TECK AUSTRALIA PTY LTD

ABN 35 091 271 911

Carrara Project

FINAL REPORT FOR THE PERIOD 21st JANUARY 2013 TO THE 7th AUGUST 2014

EL29558

Tenure holder & Operator: Teck Australia Pty Ltd, Level 2/35 Ventnor Avenue, West Perth WA 6005, Australia

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Date: 25th September, 2014

Target Commodities: Zn, Pb, Ag

Distribution: Department of Mines & Energy (Northern Territory)

Teck Australia
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Declaration

To the best of our knowledge, this document conforms to the format outline for an annual report, as shown by the Northern Territory Geological Survey- Mines and Energy Division website.
ABSTRACT

This document is submitted as final report for **EL29558**, which was formerly part of Teck Australia’s Carrara Project.

INTRODUCTION

This report summarises the exploration activities conducted on **EL29558**

LOCATION AND ACCESS

Light vehicle access to the project tenure from Mt Isa is via the Barkly Highway, driving 190 km northeast to Camooweal, thence driving northwards via graded dirt tracks for 120 km (Figure 1). The tracks follow the Queensland / Northern Territory border before arriving to Old Herbert Vale station, from whence a westward track can be taken to access the project area. Alternatively the tenure can be accessed from the west and this is the preferred route for trucks. From Camooweal continue driving 72 km west on Barkly Highway to the Ranken road turn off. Drive 140 km due northwest on the Ranken road, at the Alexandria station turn off to the northeast towards Mittiebah station and drive 20km to access EL29557 from the west.

TENURE INFORMATION

**EL29558**

Exploration Licence EL29558 (Figure 2) was granted to Teck Australia Pty Ltd on the 21st of January, 2013. The tenement currently consists of 58 sub blocks, covering an area of 188.6 km², and is current to the 20th of January 2019 over the same area.
Figure 1: Access to the Carrara project from Camooweal.

Figure 2: Access tracks to the Carrara Project from Alexandria, Mittiebah and Old Herbert Vale stations.
EXPLORATION RATIONALE

The Carrara Basin has been identified, following an open file review, as prospective for sediment hosted massive sulphide hosted (SHMS) zinc-lead-silver deposits similar in style to other deposits in the McArthur River-Mount Isa minerals province such as Century, McArthur River, George Fisher, Mount Isa lead-zinc and Lady Loretta.

The strategy is to explore for SHMS mineralisation under cover by applying modern geophysical techniques such as detailed gravity, IP, airborne EM and seismic surveys, combined with innovative and best practice surficial geochemical surveys to provide targets that warrant drilling.

GEOLOGY

The Carrara Project area is located west of the Termite Range Fault (see figure 1) and hosts lateral equivalents to the Lawn Hill Platform’s Upper McNamara Group members. Six prospective lithologies of the McNamara Group are present in the Carrara basin including the Lawn Hill formation which hosts the Century Zn-Pb-Ag deposit.

Prospective host lithologies:

- Doomadgee formation
- Walford Dolomite
- Mt Les Siltstone
- Lawn Hill Formation
- Plain Creek Formation
- Brumby Formation

The Little Range Fault in the south of the Carrara Basin is considered to be a key structural feature and as such constitutes a high priority target corridor. The area is interpreted to coincide with part of that prospective corridor. The area is covered by Georgina Basin sediments and depth of cover is poorly constrained. This will be the focus of early stage data research and exploration.
Figure 3: Regional geological setting, showing the Carrara Range, and Little Range Fault in the south. Note the location of Century and the Termite Range Fault to the east. Rawlings 2008.

GEOLOGICAL ACTIVITIES AND OFFICE STUDIES

MINERAL EXPLORATION

Open file review has concluded that the ground covered by this EL has low prospectivity for SHMS style mineralisation. Consequently a decision was made to drop this EL and reposition ground holdings elsewhere in the Carrara area.

No field activities have been undertaken during the tenure period and no new data has been acquired.

ENVIRONMENT AND REHABILITATION OF WORK SITES

The ground has not been accessed.
NATIVE TITLE AND HERITAGE ACTIVITIES

Teck submitted an application to the Aboriginal Areas Protection Authority (AAPA) with the objective of attaining a certificate in 2013. The work was partly undertaken in November of 2013 when a meeting was held at Barclay Homestead with three Aboriginal groups that are known to speak for the area. Due to incompatibilities between traditional owners the AAPA could not provide certification. Consequently, Teck has been unable to obtain access to the Carrara tenements during 2014.