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**FIGURES**  
Figure 1 Site Location Plan (Drawing No. 2102.DWG.002)  
Figure 2 Site Layout Plan (Drawing No. 2102.DWG.003)  
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**PLATES**  
Plate 1 – Regional Geology over MLA at 1:100,00 Scale

**ATTACHMENTS**  
Attachment 1 Financial and Technical Capabilities
1. Introduction

1.1 The Proponent

Cheltenham Stone Pty Ltd (‘Cheltenham Stone’) is the proponent for several mining tenements in Central Queensland. Cheltenham Stone seek to lodge a Mining Lease Application (MLA) with the Department of Natural Resources and Mines (DNRM) over the portion of land directly south of MLA 100132. The site location is shown in Figure 1 – Site Location Plan.

The extent of the MLA area is shown in Figure 2 – Site Layout Plan. This MLA is situated within the DNRM Rockhampton Mining District, 167 km south west of Bundaberg.

1.2 Purpose of the Mining Program

The purpose of this Mining Program is to satisfy the requirements of Section 245 of the Mineral Resources Act 1989 (MRA). As such, this Mining Program includes:

- a description of the land parcels subject to the MLA (including current land use and landowners)
- a description / illustration of the MLA area, including boundary and surface area descriptions
- a description of the intended purpose of the new ML
- relationship of the new ML with existing MLs under the mining project
- any improvements referred to in Section 238 (1) of the MRA
- access descriptions
- justification for the size and shape of the MLA (including graphic representations)
- minerals proposed to be mined
- proposed initial term of ML
- methods of operations, rehabilitation and workforce to be utilised, and supporting infrastructure
- a summary of the estimated human, technical and financial resources.

A detailed description of the above items is included in the following report.

1.3 Pre-Requisite Tenure

Cheltenham Stone are the holders of the Parcel Prospecting Permit 100423 over the land the subject of this MLA. It is understood that pre-requisite tenure is no longer required as a result of the introduction of the Mineral and Energy Resources (Common Provisions) Act 2014 (MERCP Act), which commenced on 27 September 2016.

1.4 Purpose of the New ML

The purpose of the new tenure will be for mining of the following minerals:

- Antimony Ore
- Cerium Ore
- Copper Ore
- Gold
- Iron Ore
- Lead Ore
- Manganese Ore
- Nickel Ore
- Niobium/ Columbium/ Columbite
- Phosphorus
- Potassium
- Rutile
- Silica Sand
- Silver Ore
- Sulphur
- Tin Ore
- Titanium Ore
- Tungsten / Wolfram / Scheelite
- Vanadium Ore
- Zinc Ore.

The mineral resource within the MLA area adjoins an existing mining lease held by Coonumbula Resources Pty Ltd, a sister company of Cheltenham Stone.
2. Land Information

2.1 Land Parcels Subject to the MLA

A summary of the land subject to the MLA is included in Table 1 – Land Information Summary, whilst the layout of the MLA is included in Figure 2 – Site Layout Plan. The land information for the area subject to MLA is included as an excel spreadsheet as part of the application package. Cheltenham Stone has advised that there is no Restricted Land (Category A or B) as defined under Schedule 2 of the MRA included in the MLA boundary.

<table>
<thead>
<tr>
<th>Lot number</th>
<th>Plan number</th>
<th>Land tenure type</th>
<th>Current land usage</th>
<th>Proposed usage</th>
<th>Landowner’s name</th>
<th>Landowner’s address</th>
<th>Compensation required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>WK45</td>
<td>Freehold</td>
<td>Other</td>
<td>Permit</td>
<td>Timothy Mark Allan and Megan Anne Allan.</td>
<td>140 Pattens Road, Mundubbera QLD 4626</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>WK45</td>
<td>Freehold</td>
<td>Other</td>
<td>Access</td>
<td>Timothy Mark Allan and Megan Anne Allan.</td>
<td>140 Pattens Road, Mundubbera QLD 4626</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2.2 Land Parcels Adjoining the MLA

A summary of the land parcels adjoining the MLA is included in Table 2 – Adjoining Land Information Summary. The adjoining land information for the MLA is included as an excel spreadsheet as part of the application package.

<table>
<thead>
<tr>
<th>Lot number</th>
<th>Plan number</th>
<th>Land tenure type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>WK45</td>
<td>Freehold</td>
</tr>
<tr>
<td>5</td>
<td>WK96</td>
<td>Freehold</td>
</tr>
<tr>
<td>6</td>
<td>WK96</td>
<td>Freehold</td>
</tr>
<tr>
<td>2</td>
<td>WK179</td>
<td>Freehold</td>
</tr>
<tr>
<td>42</td>
<td>FTY1497</td>
<td>State Forest</td>
</tr>
<tr>
<td>3</td>
<td>WK213</td>
<td>Freehold</td>
</tr>
<tr>
<td>5</td>
<td>WK17</td>
<td>Freehold</td>
</tr>
<tr>
<td>6</td>
<td>WK17</td>
<td>Freehold</td>
</tr>
<tr>
<td>1</td>
<td>WK184</td>
<td>Reserve</td>
</tr>
<tr>
<td>8</td>
<td>SP282514</td>
<td>Freehold</td>
</tr>
<tr>
<td>44</td>
<td>FTY892</td>
<td>State Forest</td>
</tr>
<tr>
<td>6</td>
<td>WK183</td>
<td>Freehold</td>
</tr>
<tr>
<td>13</td>
<td>WK156</td>
<td>Reserve</td>
</tr>
</tbody>
</table>
2.3 **Boundary Description**

The boundary is graphically represented in Figure 3 – **Mining Lease Application Setout**, and the co-ordinates are tabulated on this plan. A shape file containing the boundary co-ordinates in the approved form has been provided to the Department of Natural Resources and Mines (DNRM) within the application package.

2.4 **Surface Area and Justification**

The Surface Area for the new ML is defined as all land within the boundary set out points identified in Section 2.3 - **Boundary Description**, refer to Figure 3 – **Mining Lease Application Setout** for a graphical representation. The surface area utilises the full extent of the proposed ML so as to not limit future development of the mining activity or constrain ancillary activities within non-extraction areas.

2.5 **Proposed Commencement of Operations**

It is anticipated that mining on the new ML would commence soon after grant of the tenure, following establishment of infrastructure necessary for the carrying out of the activity.

2.6 **Statement Justifying Term Sought**

A 30-year term is sought for the tenure, which aligns with the period for which compensation has been agreed between Cheltenham Stone and the landowners for Lot 4 on WK45.
3. Proposed Activity Overview

3.1 Site Details

A summary of the site location details the subject of the MLA area are provided in Table 3 – Site Details. The layout of the MLA is shown in Figure 3 – Mining Lease Application Setout.

Table 3 – Site Details

<table>
<thead>
<tr>
<th>Location</th>
<th>Cheltenham, Queensland, refer to Figure 1 – Site Location Plan.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access</td>
<td>Access to the MLA will be overland through ML 100132, traversing Lot 4 on WK45. Refer to Figure 2 – Site Layout Plan. The access road will be approximately ten metres wide.</td>
</tr>
<tr>
<td>Real Property Description</td>
<td>Refer to Table 1 – Land Information Summary</td>
</tr>
<tr>
<td>Surface Area</td>
<td>1036.9601 ha</td>
</tr>
<tr>
<td>Total Area</td>
<td>1036.9601 ha</td>
</tr>
<tr>
<td>Tenure</td>
<td>Freehold</td>
</tr>
<tr>
<td>Local Authority</td>
<td>North Burnett Regional Council</td>
</tr>
<tr>
<td>Mining District</td>
<td>Rockhampton District</td>
</tr>
</tbody>
</table>

3.2 Supporting Operations / Relationship to Existing Activities

The mineral resource within the MLA area adjoins ML 100132 and aligns with the area to be utilised for the extractive industry operations, refer to Figure 2 – Site Layout Plan. The overlap between the mining lease and the extractive industry activities will enable the concurrent exploitation, and maximum utilisation of, materials. The land uses surrounding the MLA are summarised in Table 4 – Adjacent Land Uses.

Table 4 – Adjacent Land Uses

<table>
<thead>
<tr>
<th>Direction</th>
<th>Existing Land Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>Yerilla State Forest and Rural purposes. Mining tenements as follows:</td>
</tr>
<tr>
<td></td>
<td>• MLA 100132, lodged on 16/03/2017 by Coonambula Resources Group Pty Ltd, a sister company of Cheltenham Stone.</td>
</tr>
<tr>
<td></td>
<td>• MLA 100119, lodged 3/11/2016 by Riverstone Resources Pty Ltd, a sister company of Cheltenham Stone.</td>
</tr>
<tr>
<td></td>
<td>• MLA 80188 - 03/08/2012 by Riverstone Resources Pty Ltd.</td>
</tr>
<tr>
<td>East</td>
<td>Dykehead State Forest and Rural purposes.</td>
</tr>
<tr>
<td>South</td>
<td>Rural purposes.</td>
</tr>
<tr>
<td>West</td>
<td>Rural purposes.</td>
</tr>
</tbody>
</table>
4. Methods of Operation

4.1 Minerals to be Mined
The minerals to be mined are as follows:

- Antimony Ore
- Cerium Ore
- Copper Ore
- Gold
- Iron Ore
- Lead Ore
- Manganese Ore
- Nickel Ore
- Niobium/ Columbium/ Columbite
- Phosphorus
- Potassium
- Rutile
- Silica Sand
- Silver Ore
- Sulphur
- Tin Ore
- Titanium Ore
- Tungsten / Wolfram / Scheelite
- Vanadium Ore
- Zinc Ore.

4.2 Mining and Processing Methodology
Mineral extraction methodologies to be carried out on the new tenure will include the following:

- Clearing of vegetation and stripping of topsoil and overburden material via mechanical means (e.g. excavator).
- Stockpiling topsoil and overburden for later use as; saleable general fill, utilisation in production of processed material, incorporation into on-site rehabilitation works where required, or use in construction of stormwater controls (e.g. perimeter banks, bunds).
- Transferring raw material from the pit floor to the designated processing plant / stockpile hardstand area using an off-highway haul truck(s) loaded by an excavator or front-end loader.
- Processing of the raw materials using mobile processing plant.
- Stockpiling the final products using a front-end loader and / or off-road haul truck before the material is sold and loaded into road trucks for transportation off-site for use.
- Rehabilitating disturbed areas progressively once extraction is completed, where practicable.

4.3 Resource Description
The local geology for the site is characterised by paleochannel sediment which lies within a section of Carboniferous Permian Granitoids, namely the Coonambulla granodiorite and Cheltenham Creek adamellite units of the Rawbelle batholith (RGC Exploration Pty Ltd, n.d., Ch 2.1 Local Geology, Groundwork Plus 2010, p.1). The granitoids are basement to the tertiary alluvium in the area, with a maximum recorded thickness of the alluvial channel being 28 metres (Groundwork Plus 2010, p.1). However, it varies significantly in both thickness and lateral extent (800m to 1500m) (Groundwork Plus 2010, p.1). Mineralisation within the placer leads is in the form of ultra-fine -5μm alluvial
gold, with slightly coarser heavy mineral also occurring generally between the -50μm and -150μm fraction (Groundwork Plus 2010, p.1).

**Plate 1 – Regional Geology over MLA at 1:100,000 Scale** broadly shows the regional geology composition and mineralisation for the MLA locality at a scale of 1:100,000 (State of Queensland (Department of Natural Resources and Mines) 2017).

![Image of regional geology over MLA at 1:100,000 Scale](Image sourced from Google Earth, regional geology data sourced from the State of Queensland (Department of Natural Resources and Mines) 2017). 

4.4 **Infrastructure**

The location of site infrastructure will be dynamic, changing in response to the progression of the mine development. It is proposed to provide short term accommodation for those employed on site. This accommodation will be provided by relocatable pods of different configurations. Each suite will contain a combined bed and living area and amenities. The suites will be located within the operations area.

Material screening, processing and stockpiling will occur within an operations area. Building and infrastructure provided within this area include, but is not necessarily limited to:

- mine workings and stockpile areas
crushing and screening plant
access / haul roads
sediment basins
workers accommodation
portable site office
weighbridge
amenities and laundry block
workshop (Igloo)
chemical and hydrocarbon storage.

It is possible that a mobile crushing and screening plant will be utilised on the site during the initial years of extraction, depending on the location of extraction.

It is not proposed to provide formal car or truck parking areas. Light vehicle parking will be accommodated within proximity of the site office and workers accommodation. Staff vehicles (four wheel drives) and contractors vehicles will be used to move around the site and will park adjacent to their respective work areas. There will be sufficient area within the operations area for truck parking.

Major plant and equipment deployed on a permanent basis on the site will include:

- excavator
- front end loader
- processing plant
- heavy vehicle
- mobile water cart for dust suppression
- generator.

Other plant and equipment will be deployed on a temporary or campaign basis principally for the construction phase and for topsoil / overburden stripping and transportation environmental controls (e.g. erosion and sediment controls). The plant and equipment that may typically be deployed on a campaign basis may include bulldozers, scrapers, graders and dump trucks as needed.

4.5 Workforce

The site will provide direct employment for approximately two to 10 personnel following grant of the new ML. The new ML will secure long term employment for these personnel.

4.6 Potential Environmental Impacts

The MLA is accompanied by an application for a Standard Environmental Authority, administered by the Department of Environment and Heritage Protection (EHP). Standard EAs are subject to the Eligibility criteria and standard conditions for mining lease activities - Version 2 (EHP 2017). Eligibility criteria contained in this statutory document provide constraints that are intended to ensure environmental risks are managed and limit the circumstances under which a proponent can apply to operate under the standard conditions (EHP 2017). The accompanying standard conditions prescribe the minimum operating requirements that must be complied with by the operation (EHP 2017). Provided Cheltenham Stone adhere to the requirements of the Eligibility criteria and standard conditions for mining lease activities - Version 2 (EHP 2017), potential environmental impacts will be mitigated.

4.7 Rehabilitation

The operator must rehabilitate the site in accordance with the requirements of the Eligibility criteria and standard conditions for mining lease activities - Version 2 (EHP 2017). The standard conditions set environmental outcomes to be achieved for rehabilitation (refer to standard conditions B3 to B24) and require that rehabilitation is completed on
areas disturbed by mining activities, apart from those areas currently being utilised for mining activities, as soon as practical and within six months of the completion of works in those areas.

It is understood that the applicant will ensure compliance with this timeframe and the standard conditions, and will seek to instate the final landform, which is anticipated to be consistent with the pre-development landform, at the cessation of the mining activity.
5. Financial and Technical Resources Summary

Financial and technical resource statements have been prepared and are included as Attachment 1 – Financial and Technical Capabilities.
References


figures
Figure 1 - Site Location Plan

Cheltenham Stone Pty Ltd

Legend:
- Site Boundary
- Primary Roads
- Road Network
- Mining Lease Application

Site

Southern Reaches

South Pacific Ocean

Figure 3 - Mining Lease Application Setout

**Setout Points**

<table>
<thead>
<tr>
<th>ID</th>
<th>Easting</th>
<th>Northing</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
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</tbody>
</table>

**Legend:**
- Site Boundary
- Cadastral Boundary
- Mining Lease Boundary
- Exploration Permit For Minerals

Cheltenham Stone Pty Ltd

attachments
Attachment 1

Financial and Technical Capabilities