

BMA Saraji Mine

Saraji Mine Grevillea Pit Continuation Project

Proposed Action Description

Background

The Saraji Mine (SRM) is owned and operated by BM Alliance Coal Operations Pty Ltd (BMA), on behalf of the Central Queensland Coal Associates Joint Venture (CQCA JV). The SRM is an open cut mine and has been in operation since 1974, operating using dragline and truck/shovel equipment, supplying hard coking (steel making) coal product for the export market. Currently, the SRM mines approximately 16 million tonnes per annum (Mtpa) of Run-of-Mine (ROM) coal. Located within the Isaac Regional Local Government Area (LGA), the SRM is located approximately 20 kilometres (km) north of Dysart in the Bowen Basin, Queensland.

The SRM is located primarily within Mining Lease (ML) 1775 and ML 1782, with industrial infrastructure located primarily within ML 1784 and ML 70142. The existing Grevillea Pit at the SRM is currently being mined within ML 1782.

Existing mining operations at the SRM are undertaken in a number of pits identified in Table 1. Due to mine progression, the existing Grevillea Pit will exhaust the current ML 1782 during Financial Year (FY)25.

In 2017, BMA submitted an EA amendment application under the *Environmental Protection Act 1994* to authorise the continuation of Grevillea Pit to access further coal resources. An ML application for ML 700021 was submitted in conjunction with the EA amendment application in accordance with requirements under the *Mineral Resources Act 1989* (MR Act) and was granted in 2018. Surface Area (SA) rights (SA1) were obtained shortly after for the purpose of coal mining.

ML 700021 is positioned directly east of ML 1782 where current SRM mine operations are occurring, and is bordered by Spring Creek in the north, Phillips Creek in the south, and power easements for 132kV/66kV electrical transmission lines to the east.

As a result of mine sequencing and planning, mining activities are currently scheduled to reach the limit of approved Grevillea Pit extents during FY25. BMA proposes to continue the SRM mining operations through enabling the extension of the footprint of the existing Grevillea Pit. The SRM Grevillea Pit Continuation Project (the proposed action) seeks to enable the continuation of existing open cut mining operations into ML 700021. The proposed action will be confined to ML 700021 and is shown in Figure 1.

Table 1: SRM Mining Pits

Mine	Pit Name	Mining Lease
SRM	Acacia	ML 1775
	Bauhinia	
	Coolibah	
	Dogwood	
	Jacaranda	
	Ebony	ML 1782
	Hakea	
	Grevillea (existing)	
	Grevillea (continuation)	ML 700021

Mining Methodology

The key elements of the proposed action are listed below:

- Continuation of vegetation clearing, the removal and stockpiling of topsoil material, drilling and blasting of overburden and interburden material.
- Continuation of open cut mining (dragline, truck and shovel/excavation methods) of ROM coal from the coal measures to the east beyond the current ML 1782 from FY25.
- Continued use of existing SRM infrastructure (e.g., Coal Handling and Preparation Plant, ROM and product stockpiles, train load-out, water management system and other supporting infrastructure).
- Continued disposal of rejects and tailings in accordance with the EA.
- Construction and operation of new or relocated infrastructure associated with the proposed action within ML 700021 to facilitate and/or support the continuation of open cut mining (detailed further below under Mine Infrastructure).
- Continuation of overburden and interburden material removal (dragline and truck and shovel/excavator methods) to uncover coal, which is placed as back fill in the mined-out pits (in-pit spoil dumps) as mining advances.
- Ongoing exploration activities within ML 700021.
- Continuation of progressive rehabilitation of disturbed areas.

A typical mining cross section proposed at ML 700021 is provided in Plate 1.

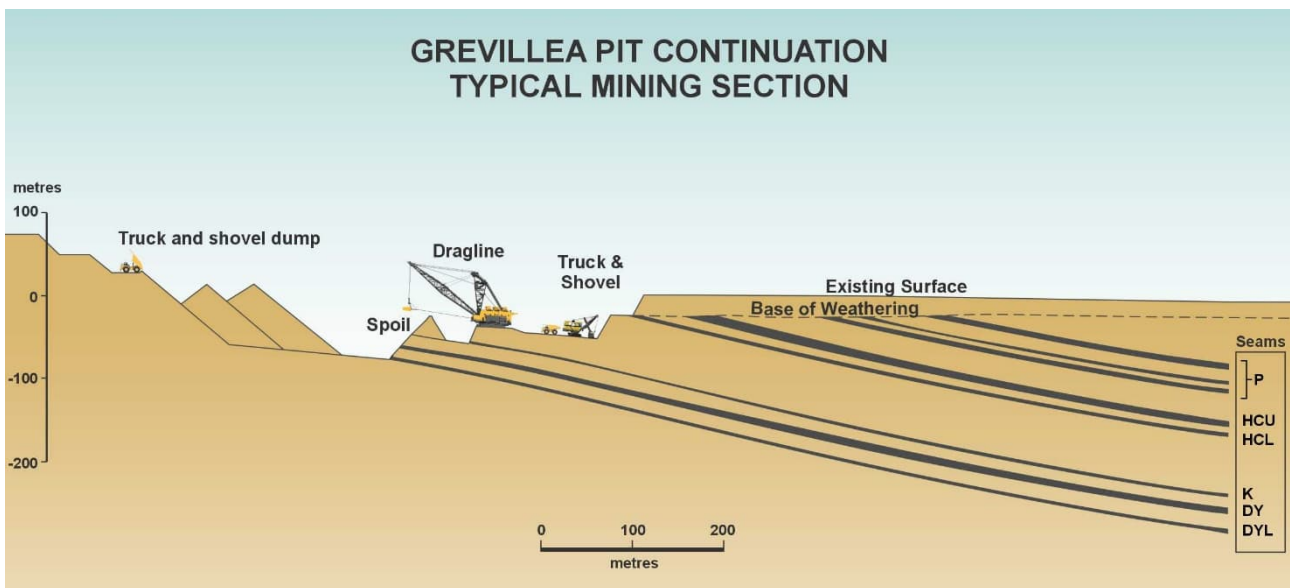


Plate 1: Grevillea Pit Continuation Project – Typical mining cross-section.

Mine Infrastructure

The key mine infrastructure currently within the ML 700021 includes:

- Mine access roads and borrow pits.
- Electrical infrastructure including 66kv overhead power lines and substations.
- Water management infrastructure such as dams, drains and pipelines.
- Earth-moving-equipment build pad.
- Flood protection levees.

Over the life of the SRM, the key mine infrastructure within ML 700021 will likely include:

- Haul roads (heavy vehicles), light vehicle roads and access roads including parking lots.

- Pit infrastructure such as floors, walls, benches, ramps and access roads and spoil stockpiles.
- Flood protection levees.
- Water management infrastructure such as dams, drains and pipelines.
- Relocated earth-moving-equipment build pad and supporting infrastructure.
- Electrical infrastructure including new or realigned stub lines and substations.

During pit progression, infrastructure will be relocated as required to support the mine operations within ML 700021. A 50-100 m lead on the high wall will remain to enable positioning of this support infrastructure up to the completion of mining in the pit.

Mine Closure

The proposed action will continue the existing Grevillea Pit up to FY2055. In accordance with Condition E3 of the EA, areas significantly disturbed by mining activities must be rehabilitated in accordance with defined requirements to ensure a safe, stable, and non-polluting landform. As per Condition E15 of the EA, infrastructure constructed by, or for the SRM, must be removed from the site (except where agreement is reached). The proposed action will continue to implement existing rehabilitation and landform planning activities as per current operations. These rehabilitation and closure activities will be guided by the approved PRCP for the SRM.

The final landform design is based on the mine planning information and other detail available at the time of preparation of the application for referral. The main features of the final landform will be the rehabilitated overburden dumps to the west. The design of the final landform has been developed through an understanding of the spoil type and volume, waste characterisation, mining sequence and schedules, and required post-mining land use outcomes. The closure landform (excluding void and top of spoil dumps) will be free draining and will not require sediment dams or other water control structures, unless required for the mine.

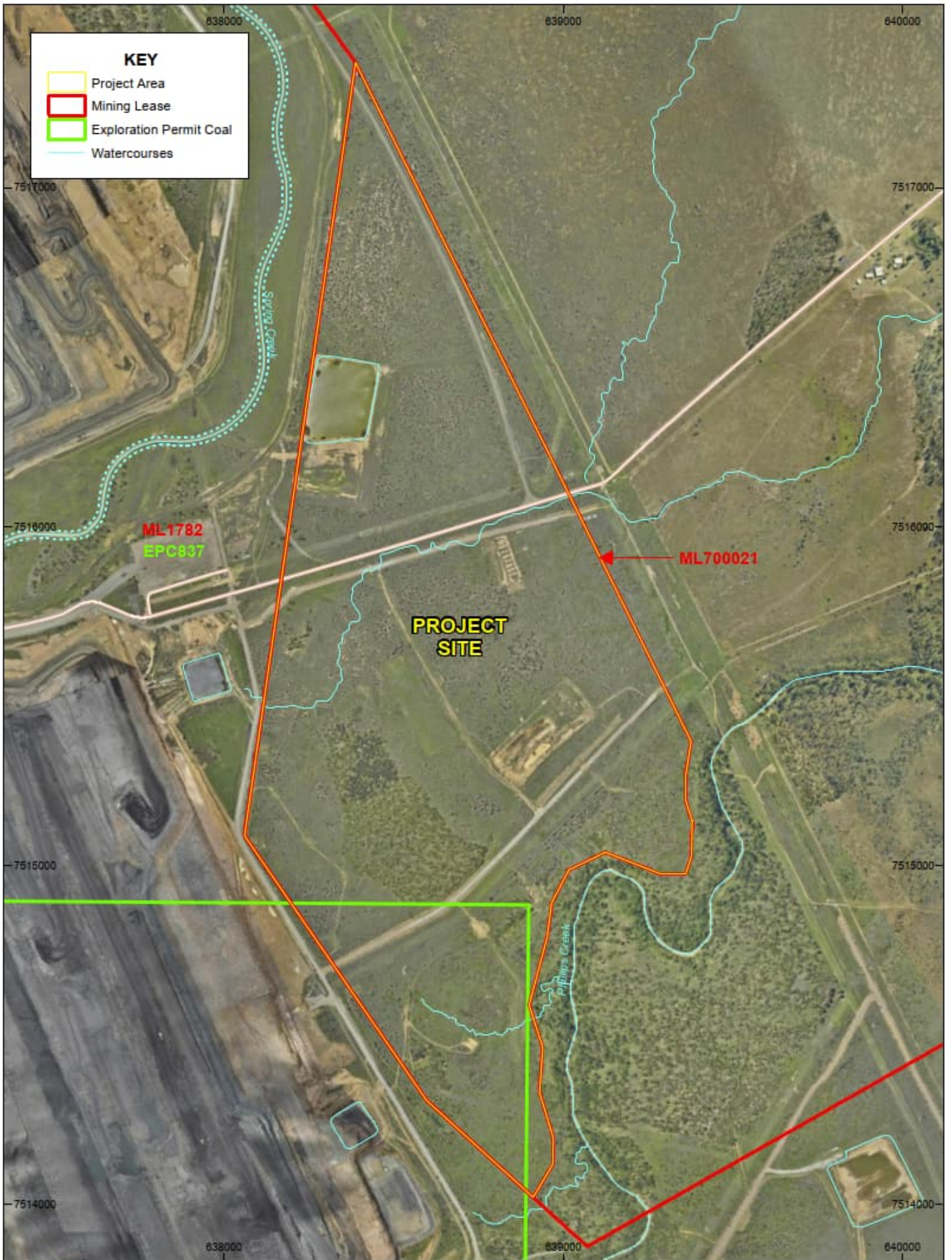
The design of spoil dumps is an important part of mine rehabilitation. The spoil dumps will be constructed in lifts (or benches) which will be regraded and reshaped to PRCP-approved slopes and contour characteristic prior to soil preparation and revegetation activities to the appropriate Post Mining Land Use (as per the EA and PRCP).

Land Ownership

The ownership of the underlying ML 700021 is detailed in Table 2.

Table 2: Land Ownership

Landowner / counterparty	Land Title
BHP Coal Pty Ltd & Others	201SP321205 (freehold)
	GSP260662 (access easement)
	BCNS119 (power supply easement)



KEY

- Project Area
- Mining Lease
- Exploration Permit Coal
- Watercourses

ML1782
EPC837

PROJECT SITE

ML700021



0 250 500 m
Transverse Mercator Projection
AGD 1986 AMG Zone 55



GREVILLEA PIT CONTINUATION PROJECT
PROJECT SITE

Drawn: P. Watts	Date: 13/12/2023	Revision:
Checked: H. Silcox	Filename: 20231213-1a.mxd	

FIGURE 1