Rehabilitation Management Plan

BROADMEADOW EAST PROJECT

BOWEN COKING COAL LIMITED A WHOLLY OWNED SUBSIDIARY COKING COAL ONE PTY LTD

VERSION 1 | 28-September-2023

Authorisations

	Position	Signature	Date
Prepared by:	Senior/Principal Environmental Advisor, RPMGlobal	BK	28/9/2023
Reviewed by:	Principal Environmental Advisor, RPMGlobal	MRT	28/9/2023
Reviewed & approved by:	Manager Sustainability, BCC	MB	28/9/2023

Version History

Version	Date	Purpose / Change
1	28/9/2023	Reference to relevant PRCP sections

Table of Contents

1 Background 2
2 Project Description 3
3 Appropriately qualified person 3
4 Condition G11 requirements 4
5 Next steps 5

1 Background

The Broadmeadow East Mine (BME or "the Mine") is located in the Queensland Bowen Basin and owned by Coking Coal One Pty Ltd (CCO or "the Proponent"), a wholly owned subsidiary of Bowen Coking Coal Limited (BCC).

The Mine is subject to EA0002465, which was issued under the *Environmental Protection Act 1994*. As required by Condition G11 of EA0002465, the EA holder must develop a Rehabilitation Management Plan (RMP or "the Plan"). RMP should support progressive rehabilitation and closure activities to be undertaken post mining at BME.

The RMP provides an overview of the processes and methods to manage the rehabilitation at BME. Aspects of the RMP will form a part of the Progressive Rehabilitation Closure Plan (PRCP) as required under the *Environmental Protection Act 1994* (EP Act), however it is not considered an approved Land Outcome Document (LOD). The RMP has been designed to support the BME PRCP.

The RMP focuses on successfully delivering the Post Mine Land Uses (PMLU) outlined in Appendix 5 of the EA. The BME PRCP is classified as 'transitional' under the *Mineral and Energy Resources (Financial Provisioning) Act 2018 (MERFP Act),* therefore EA00002465 is the only approved LOD for BME. Rehabilitation and closure obligations from the EA have been transitioned into the PRCP.

At a meeting between BCC and Department of Environment and Science (DES) representatives on 31 August 2023, and subsequently confirmed in writing via email on 28 September 2023, the following was agreed:

- The BME PRCP for EA0002465 to be submitted on 29 September 2023.
- To assist with alignment across the approval and compliance teams within DES, and ensure compliance with Condition G12 of EA0002465, the RMP is also to be submitted on 29 September 2023, after the PRCP submission. The document to reference relevant sections in the submitted PRCP on how requirements of Condition G11 have been met.
- After the PRCP is approved, the EA will be amended for a few purposes, including amended conditions G11 to G14 to reflect the requirements being captured in the PRCP.

The BME PRCP was submitted to the department on 29 September 2023.

All required information has been included in the submitted PRCP, and this plan references the relevant sections.

2 Project Description

The Mine is entirely within ML 70257, located 22 km north-east of Moranbah township and 120 km southwest of Mackay in the Queensland Bowen Basin, as shown in PRCP v1 Figure 3-1. The Peak Downs Highway links the coastal city of Mackay to the Mine via the Suttor Development Road.

The western boundary of ML 70257 is adjacent to the Mallawa Haul Road (ML 70109) owned and operated by a separate subsidiary of BCC, which provides the only access to the Mine via the Burton Mine administration office located 26 kilometres north. The haul road concludes at the Mallawa Train Load Out facility (TLO) that connects to the Aurizon Goonyella Rail System south of the Mine (PRCP v1 Figure 3-26).

BCC purchased the 845-hectare (ha) ML 70257 from Peabody (Burton Coal) Pty Ltd, which led to the de-amalgamation from nearby tenures and associated EA on 24 August 2020. EA0002465, last issued on 2 February 2023, holds the following Environmentally Relevant Activities (ERA) for ML 70257:

- Resource Activity, Schedule 3, 13: Mining black coal;
- Resource Activity, Schedule 3, 09: A mining activity involving drilling, costeaning, pitting or carrying out geological surveys causing significant disturbance;
- Ancillary Activity, Schedule 2, 60(1): Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection 1(a)—(d) more than 200,000t; and
- Ancillary Activity, Schedule 2, 60(2): Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(b)—(c) more than 5,000t but not more than 10,000t.

The Mine is approved to extract 1.9 million tonnes per annum (mtpa) of high-quality metallurgical coal over an estimated five-year mine life. Mining activities occur within a 434 ha approved disturbance area within ML 70257. The 434 ha approved disturbance area consists of an open pit and associated infrastructure centrally located on the widest section of the ML. Mine construction began in June 2022, and the operation now employs the truck and shovel method to mine the resource in a southerly direction.

3 Appropriately qualified person

The EA definition for “appropriately qualified person” (AQP) means a person who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods or literature.

The RMP has been prepared by persons that meet the qualifications of the definition. A review was carried out by the Manager Sustainability (BCC) who also meets the definition of an AQP.

4 Condition G11 requirements

The following table describes the requirements under the Environmental Authority, condition G11 and how they have been met by the submitted PRCP.

Condition G11	Requirement	PRCP section
a)	a map of proposed areas of rehabilitation including classification and status of rehabilitation;	Section 3.1.4, Figure 3-32
b)	a strategy and schedule for the progressive rehabilitation of all disturbance during the life of mine;	Section 3.1.4.1, Table 3-13 and Figures 3-33 and 3-34
c)	a strategy for weed and pest management which includes disturbed and rehabilitated areas;	3.5.1.8 and 3.7.2.1
d)	a strategy for successfully achieving rehabilitation requirements of this environmental authority;	3.3.2
e)	details of the grazing trials;	3.6.2
f)	details of landform design to achieve rehabilitation outcomes listed in **Appendix 5, Table G1 - Post Mine Land Use (PMLU) and Rehabilitation Methods** including end of mine design and schematic representation of final landform inclusive of: i. drainage design and features; ii. slope designs; iii. cover design; iv. erosion controls proposed on reformed land;	3.5.1.5, 3.5.1.6, and 3.5.3
g)	details of how landform design will be consistent with surrounding topography;	3.5.1.5
h)	details of how the final land uses will align with local planning scheme requirements;	3.3.4, 3.3.4.1, 3.3.4.2 and 3.3.4.3
i)	specify the spoil characteristics, soil analysis and soil separation for use on rehabilitation;	3.5.1.4
j)	specify the topsoil requirements for the site and how topsoil will be managed for use in rehabilitation;	3.5.1.3
k)	details of any topsoil deficit and how any deficit will be managed for successful rehabilitation;	3.5.1.3
l)	details of rehabilitation methods to be applied to each domain as per **Appendix 5, Table G1 Post Mine Land Use (PMLU) and Rehabilitation Methods**, including defined water quality parameters for water structures to be retained onsite post mine;	3.5.3 and 3.5.5
m)	describe the monitoring of reference sites;	3.7.1.1

Condition G11	Requirement	PRCP section
n)	description of rehabilitation indicators and how these will be monitored;	3.7.1.2
o)	description of management actions to address unsuccessful rehabilitation or redesign;	3.7.2
p)	description of wastewater collection and reticulation and treatment systems;	3.5.1.7
q)	description of any risks to groundwater and how these will be managed; and	3.5.1.1
r)	description of seepage and leachate management considerations.	3.5.1.7

5 Next steps

It is understood from discussions with the Department of Environment and Science that the next steps are as follows:

- Review of the PRCP submitted 29 September 2023 conducted by the department;
- Review of this document against the environmental authority and the submitted PRCP;
- Information requests, if required, from the department; and
- when the department determines that the requirements under the conditions about the Rehabilitation Management Plan are met, an amendment to the Environmental Authority will commence, clarifying that all rehabilitation requirements will be met via the approved PRCP for BME.