PRCP schedule

Environmental Protection Act 1994

PRCP schedule PRCP_EA100114091_V1

This is the approved form for a PRCP schedule issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

PRCP schedule: PRCP_EA100114091_V1

PRCP schedule holder(s)

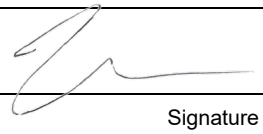
Name(s)	Registered address
Coking Coal ONE Pty Ltd; 064 874 620	Level 19, Waterfront Place, 1 Eagle Street, Brisbane QLD 4000 Australia

Location details

Location(s)
ML700062
ML700063

Take effect

In accordance with section 202B of the *Environmental Protection Act 1994* (EP Act), the PRCP schedule has effect on the day the environmental authority for carrying out relevant activities on land to which the schedule relates takes effect. Pursuant to section 202C of the EP Act, a PRCP schedule continues in force until the environmental authority for the relevant activities to which the PRCP schedule relates is cancelled or surrendered, even if the resource tenure expires or is cancelled and even if the relevant environmental authority is suspended under Chapter 5, part 11 or 11A of the EP Act.

Signature	Date
	29 March 2022

Juliana McCosker
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Business Centre Coal
Department of Environment and Science
PO Box 3028, Emerald QLD 4720
Phone: (07) 4987 9320
Email: CRMining@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

Pursuant to section 202E of the EP Act, if there is an inconsistency between an environmental authority and a PRCP schedule, the environmental authority prevails to the extent of the inconsistency.

Pursuant to section 285 of the EP Act:

- the holder of a PRCP schedule must commission an audit of the schedule by a rehabilitation auditor for the following periods (each an audit period) —

  (a) the 3-year period starting on the day the schedule takes effect

  (b) each 3-year period starting on the day after the previous audit period ended.

- the holder must, within 4 months after the end of each audit period, give the administering authority -

  (a) the rehabilitation auditor's report (an audit report) about the audit that complies with section 286 of the EP Act, and

  (b) a declaration for the audit report that complies with section 285 of the EP Act.

In addition to the requirements found in the conditions of this PRCP schedule, the holder must also meet their obligations under the environmental authority, the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the EP Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443).

PRCP schedule

The PRCP schedule incorporates the following sections:

- Section A - Conditions of PRCP schedule
- Section B - Final site design and reference maps
- Section C - Post mining land uses

Section A - Conditions of PRCP schedule

Pursuant to section 206A of the EP Act:

- it is a condition of this PRCP schedule that, in carrying out a relevant activity under the schedule, the holder must comply with a requirement stated in the environmental authority relevant to carrying out the activity.
- it is a condition of this PRCP schedule that the holder must comply with the following matters stated in the schedule -

  (a) each rehabilitation milestone and management milestone

  (b) when each rehabilitation milestone and management milestone is to be achieved

There are no conditions beyond those contained in section 206A of the *Environmental Protection Act 1994* that apply to this PRCP schedule.

General conditions

PRCP1 The holder must comply with each milestone criterion stated in the schedule.

PRCP2 Where a milestone criterion requires any of the following, the holder must keep records of the actions taken to comply with the criterion as well as the results and provide a copy of this information to the Administering Authority on request -

(i) certifications or assessments to be undertaken

(ii) monitoring or maintenance to be carried out

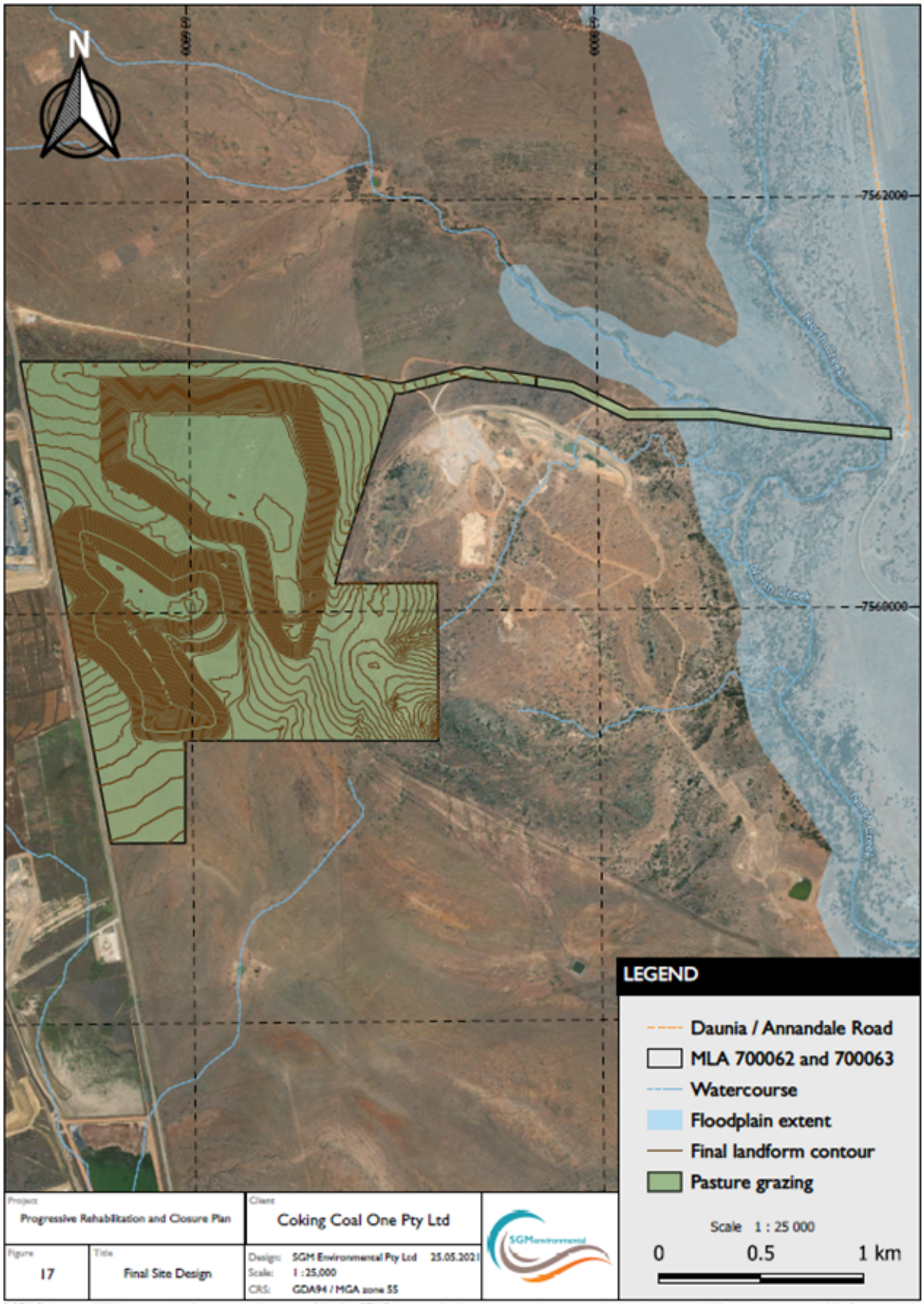
(iii) final design plans and/or specifications to be developed

(iv) reports such as contaminated land investigations, rehabilitation reports (including monitoring records), validation reports, Quality Assurance/Quality Control reports.

PRCP3 Where land becomes available for rehabilitation earlier than the nominated 'Date area is available', progressive rehabilitation for that land must commence as soon as practicable. Progressive rehabilitation commenced early under this condition must be carried out in accordance with the milestones and criteria in this schedule, except that each of the dates by which milestones are to be completed is brought forward by the same amount of time as the commencement was brought forward.

END OF CONDITIONS

Section B - Final site design and reference maps



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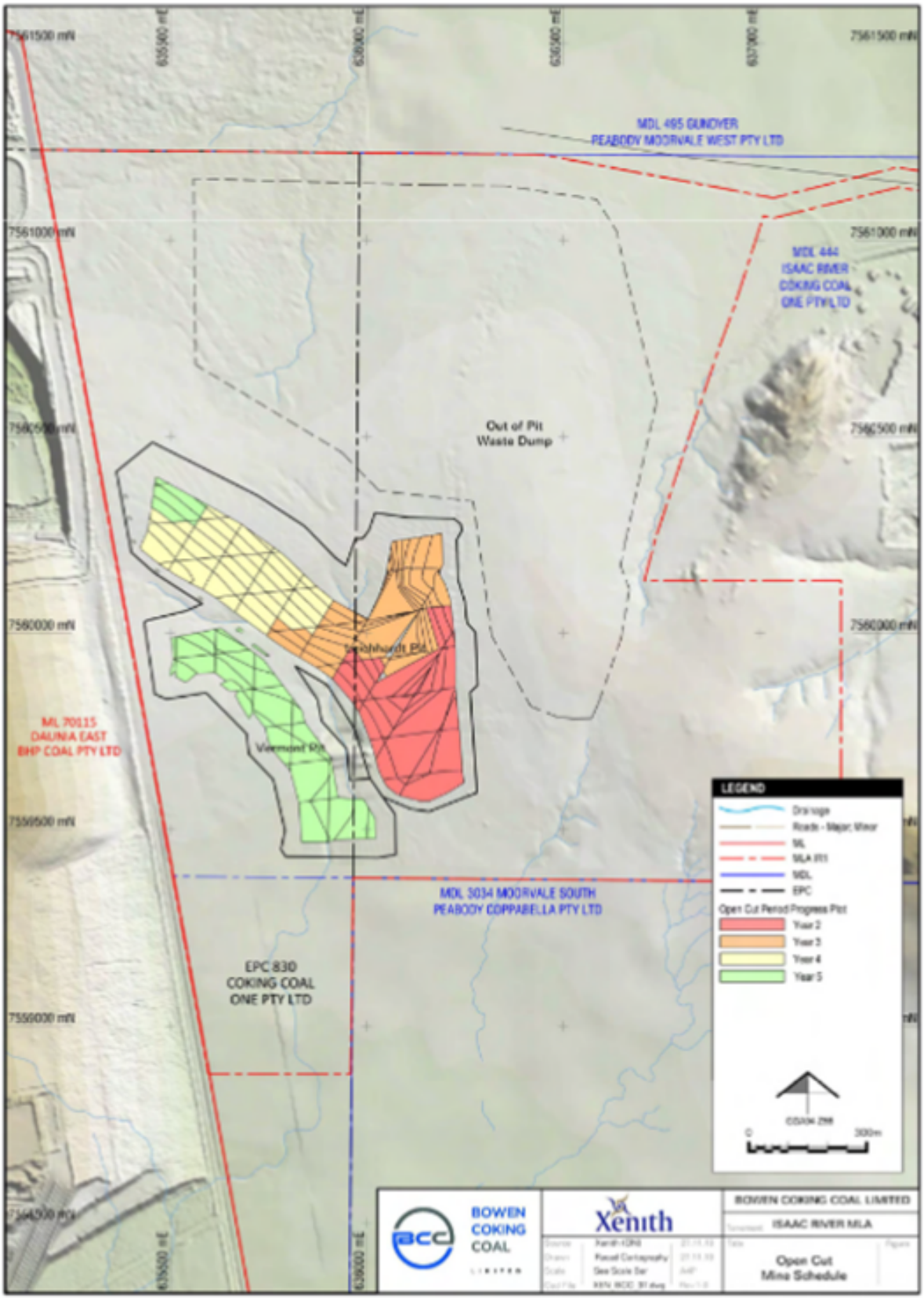
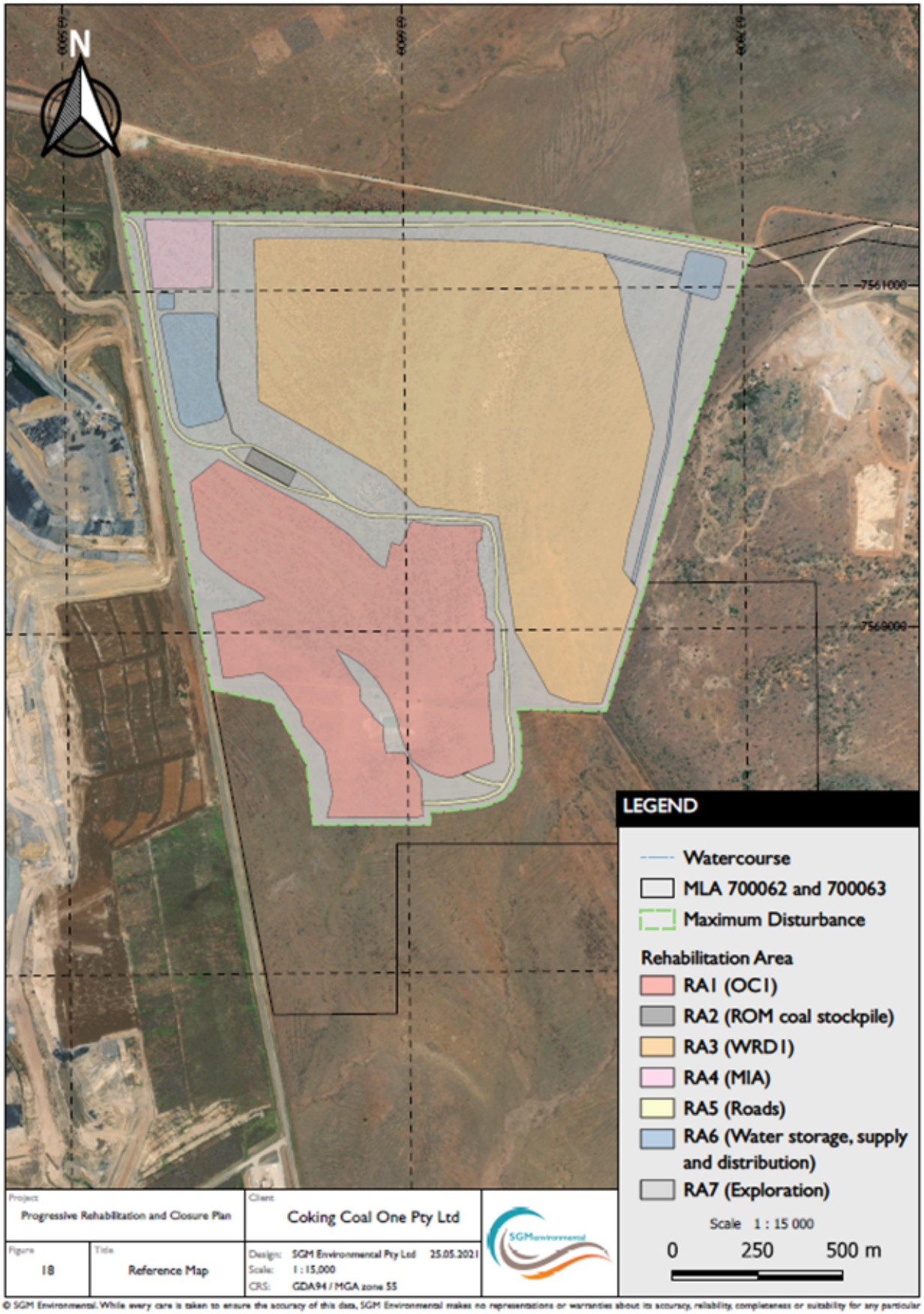

MDL 495 GUNDIVER
PEABODY MOORVALE WEST PTY LTD
MDL 444
ISAAC RIVER
COKING COAL
ONE PTY LTD
Out of Pit
Waste Dump
ML 70115
DAUNIA EAST
BHP COAL PTY LTD
MDL 3034 MOORVALE SOUTH
PEABODY COPPABELLA PTY LTD
EPC 830
COKING COAL
ONE PTY LTD
LEGEND
Year 2
Year 3
Year 4
Year 5
BOWEN
COKING
COAL
Xenith
BOWEN COKING COAL LIMITED
ISAAC RIVER MLA
Open Cut
Mine Schedule



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Section C – Post mining land uses

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)										
Rehabilitation area	RA1									
Relevant activities	Open-cut pit (OC1)									
Total rehabilitation area size (ha)	55.7									
Commencement of first milestone: RM4	1 June 2026									
PMLU	Pasture grazing									
Date area is available	10/12/2026									
Cumulative area available (ha)	55.7									
Milestone completed by	10/12/2027	10/12/2028	10/12/2029	10/12/2034						
Milestone Reference	**Cumulative area achieved (ha)**									
RM4	55.7									
RM5		55.7								
RM6		55.7								
RM7		55.7								
RM8			55.7							
RM9				55.7						

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)										
Rehabilitation area	RA2									
Relevant activities	Run of mine (ROM) coal stockpile									
Total rehabilitation area size (ha)	0.8									
Commencement of first milestone: RM2	10 June 2027									
PMLU	Pasture grazing									
Date area is available	10/06/2027									
Cumulative area available (ha)	0.8									
Milestone completed by	10/12/2027	10/12/2028	10/12/2029	10/12/2034						
Milestone Reference	**Cumulative area achieved (ha)**									
RM2	0.8									
RM6		0.8								
RM7		0.8								
RM8			0.8							
RM9				0.8						

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)										
Rehabilitation area	RA3									
Relevant activities	Out-of-pit waste rock dump (WRD1)									
Total rehabilitation area size (ha)	97.9									
Commencement of first milestone: RM4	10 June 2022									
PMLU	Pasture Grazing									
Date area is available	10/06/2022	10/06/2023	10/06/2024	10/06/2025						
Cumulative area available (ha)	24.3	49.8	76.7	97.9						
Milestone completed by	10/12/2022	10/12/2023	10/12/2024	10/12/2025	10/12/2026	10/12/2027	10/12/2034			
Milestone Reference	**Cumulative area achieved (ha)**									
RM4	24.3	49.8	76.7	97.9						
RM5		24.3	49.8	76.7	97.9					
RM6		24.3	49.8	76.7	97.9					
RM7		24.3	49.8	76.7	97.9					
RM8						97.9				
RM9							97.9			

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)										
Rehabilitation area	RA4									
Relevant activities	Mine industrial area (MIA)									
Total rehabilitation area size (ha)	3.9									
Commencement of first milestone: RM1	10 June 2027									
PMLU	Pasture grazing									
Date area is available	10/06/2027									
Cumulative area available (ha)	3.9									
Milestone completed by	10/12/2027	10/12/2028	10/12/2029	10/12/2034						
Milestone Reference	**Cumulative area achieved (ha)**									
RM1	3.9									
RM2	3.9									
RM6		3.9								
RM7		3.9								
RM8			3.9							
RM9				3.9						

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)										
Rehabilitation area	RA5									
Relevant activities	Roads									
Total rehabilitation area size (ha)	7.3									
Commencement of first milestone: RM1	10 June 2027									
PMLU	Pasture grazing									
Date area is available	10/06/2027									
Cumulative area available (ha)	7.3									
Milestone completed by	10/12/2027	10/12/2028	10/12/2029	10/12/2034						
Milestone Reference	**Cumulative area achieved (ha)**									
RM1	7.3									
RM4		7.3								
RM6		7.3								
RM7		7.3								
RM8			7.3							
RM9				7.3						

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)										
Rehabilitation area	RA6									
Relevant activities	Water storage, supply and distribution									
Total rehabilitation area size (ha)	7.8									
Commencement of first milestone: RM3	10 June 2027									
PMLU	Pasture grazing									
Date area is available	10/06/2027									
Cumulative area available (ha)	7.8									
Milestone completed by	10/12/2027	10/12/2028	10/12/2029	10/12/2034						
Milestone Reference	**Cumulative area achieved (ha)**									
RM1	7.8									
RM3	7.8									
RM4		7.8								
RM6		7.8								
RM7		7.8								
RM8			7.8							
RM9				7.8						

(RA7) Rehabilitation area 7

Post-mining land uses (PMLU)										
Rehabilitation area	RA7									
Relevant activities	Exploration									
Total rehabilitation area size (ha)	63.8									
Commencement of first milestone: RM3	10 June 2027									
PMLU	Pasture grazing									
Date area is available	10/12/2027									
Cumulative area available (ha)	63.8									
Milestone completed by	10/12/2027	10/12/2034								
Milestone Reference	**Cumulative area achieved (ha)**									
RM1	63.8									
RM7	63.8									
RM9		63.8								

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	(a) All site services disconnected. (b) All road materials (bitumen, gravel and contaminated land) removed. (c) All pipelines drained and removed. (d) All fencing is removed. (e) All buildings demolished and removed. (f) All drill holes, sumps, exploration tracks and gridlines decommissioned. (g) All machinery and equipment removed. (h) All rubbish removed. (i) All waste is to be transported, disposed of, and handled in accordance with relevant waste legislation.
RM2	Remediation of contaminated land	(a) A site investigation report is prepared by an appropriately qualified person. If the site is deemed uncontaminated the report requires inclusion of a site suitability statement, stating that the land is not contaminated and is suitable for any use. (b) All contamination is remediated or removed from site. (c) Certification from an appropriately qualified person is required that states that all contaminated land has been remediated or removed and disposed of according to relevant regulations.
RM3	Remediation of contaminated sediment	(a) A contaminated sediment assessment is prepared by an appropriately qualified person. (b) All contaminated sediment is remediated or removed from site. (c) Certification from an appropriately qualified person that all contaminated sediment, along with any synthetic liners, is remediated or removed and disposed according to relevant regulations.
RM4	Landform development and reshaping / re-profiling	(a) All landform shaping and re-profiling earthworks completed. (b) OC1 is backfilled to 200 m AHD in the Leichardt (LHD) void and 195 m AHD in the Vermont (VEM) voids as verified by an appropriately qualified person. (c) Highwall portals have been sealed and are not accessible from the landform surface and verified by an appropriately qualified person. (d) Sediment and mine water dams will be desilted and backfilled using their embankments. (e) Slope of constructed landform is ≤15% and verified by an appropriately qualified person.

		(f) Landform is assessed as geotechnically stable by an appropriately qualified geotechnical engineer. (g) Surface water runoff meets site drainage specifications as assessed by an appropriately qualified person.
RM5	Installation of cover	(a) Certification by an appropriately qualified person that fine rejects are buried under waste rock with a minimum of 5 m cover thickness.
RM6	Surface preparation	(a) An assessment of topsoil and subsoil health and suitability has been completed by an appropriately qualified person to determine requirements for amelioration to minimise erosion and achieve target vegetation establishment. (b) Any erosion or subsidence that occurs after the achievement of RM4 has been remediated prior to surface preparation. (c) Application of ameliorants as per requirements of the topsoil and subsoil health and suitability assessment. (d) Deep ripping of surfaces has been completed. (e) Placement of a minimum of 0.2 metres (m) of topsoil. (f) Light scarification on the contour of the topsoil surface has been completed. (g) Appropriate erosion and sediment control systems have been installed and verified by an appropriately qualified person.
RM7	Revegetation (pasture grazing)	(a) Completed seeding as per the Revegetation Plan for the Isaac River Coking Coal Project prepared by CDM Smith dated 25 May 2021.
RM8	Achievement of surface requirements (pasture grazing)	(a) Groundcover ≥80%. (b) No active areas of gully erosion and drainage follows appropriate drainage paths. (c) Erosion gullies are less than or equal to 0.3 m deep. (d) Certification from an appropriately qualified person that rehabilitation is resilient to fire. (e) Certification by an appropriately qualified person that weed, and pest species are in densities no greater than at analogue sites.
RM9	Achievement of PMLU to a stable condition (pasture grazing)	(a) All corrective actions recommended by appropriately qualified persons in response to erosion or deficient vegetation cover have been implemented. (b) Certification from an appropriately qualified person that the landform has achieved a stable condition. (c) Certification from an appropriately qualified person that the landform is geotechnically stable and has achieved a factor of safety ≥1.5. (d) Erosion monitoring has been completed.

		(e) Maximum erosion rate of <10 t/ha/year at any point in the landform. (f) Average erosion rate of ≤5 t/ha/year. (g) Groundcover ≥80%. (h) Certification from an appropriately qualified person that weed, and pest species are no greater than at analogue sites. (i) Water quality for surface water runoff complies with the following when measured at the downstream monitoring locations specified in **Table C6 – Receiving water upstream background sites and downstream monitoring points** of the environmental authority (EA100114091) for the Isaac River Coal Mine: • pH is between 6.5 and 8.5; • electrical conductivity is 720 µS/cm; • total Suspended Solids is <30 mg/L • sulfate is <5mg/L • aluminium is <100 µg/ L; • arsenic is <13 µg/L; • cadmium is <0.2 µg/L; • chromium is <1 µg/L; • copper is <2 µg/L; • iron is <300 µg/L; • lead is <10 µg/L; • mercury is <0.2 µg/L; • nickel is <11 µg/L; • zinc is <8 µg/L; • boron is <370 µg/L; • cobalt is <90 µg/L • manganese is <1,900 µg/L; • molybdenum is <34 µg/L; • selenium is <10 µg/L; • silver is <1 µg/L; • uranium is <1 µg/L; • ammonia is <1,000 µg/L; • nitrate is <1,100 µg/L; • petroleum hydrocarbons (C6-C9) is <20 µg/L; • petroleum hydrocarbons (C10-C36) is <100 µg/L; (j) Water quality for surface water that has accumulated in the partially backfilled open cut pit complies with the following: i. TDS is <4000mg/L ii. pH is between 6.5-8.5

		iii. total nitrogen <5 mg/L iv. sulfate is <1000 mg/L v. aluminium is <5.0 mg/L vi. arsenic is <0.1 mg/L vii. molybdenum is <0.1 mg/L viii. selenium is <0.02 mg/L ix. mercury is <0.002 mg/L x. lead is <2.0 mg/L (k) The base of the backfilled open cut pit is above the seasonal fluctuation of the groundwater table. (l) Groundwater quality complies with **Table D2 - Groundwater Quality Limits** and **Table D3 - Groundwater Level Trigger Thresholds** of the environmental authority (EA10114091) for the Isaac River Coal Mine when measured at the locations in **Table D1 - Groundwater Level Monitoring and Frequency** and **Appendix 3 – Groundwater bore monitoring locations.**

END OF **PRCP** SCHEDULE