

PRCP schedule

Environmental Protection Act 1994

PRCP schedule P-PRCP-100864735

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: P-PRCP-100864735

PRCP schedule holder(s)

Name(s)	Registered address
Peabody Coppabella Pty Ltd	Level 5, 100 Melbourne Street SOUTH BRISBANE QLD 4101
CITIC Australia Coppabella Pty Ltd	Level 7, CITIC House 99 King Street MELBOURNE VIC 3000
KC Resources Pty Ltd	Suite 3B Level 33, 52 Martin Place SYDNEY NSW 2000
Winchester Coal Operations Pty Ltd	Commonwealth Bank Building Level 25, 240 Queen Street BRISBANE CITY QLD 4000
NS Coal Pty Ltd	Level 2, Navison House 10 Market Street BRISBANE CITY QLD 4000

Location details

Location(s)
ML70354 and ML70355

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

8/5/2025

Date

Jessica Johnson
Department of the Environment, Tourism, Science
and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

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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 D - Non-use management areas.

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.

General conditions

- PRCP1** All mining disturbance authorised under environmental authority EPML00744813 must have an associated rehabilitation outcome provided in this PRCP Schedule.
- PRCP2** The holder must for each rehabilitation area, achieve all rehabilitation milestone criteria:
- a. for the cumulative area available specified in this schedule; and
 - b. by the milestone completion date specified in this schedule.
- PRCP3** The holder must for each improvement area, achieve all management milestone criteria:
- a. for the cumulative area available specified in this schedule; and
 - b. by the milestone completion date specified in this schedule.
- PRCP4** Where land becomes 'available for rehabilitation' earlier than the date nominated in this schedule, the holder must:
- a. notify the administering authority in writing within 30 days of the land becoming 'available for rehabilitation'. The written notification must include precise details of the relevant land area and the date when that land became 'available for rehabilitation'; and
 - b. where land 'available for rehabilitation' is able to progress to subsequent milestones; within 90 days of the land becoming 'available for rehabilitation', apply to the administering authority to amend this schedule in a way that maximises the progressive rehabilitation of the land to a **stable condition**¹, including bring forward achievement of relevant milestones and criteria.
 - c. Where land 'available for rehabilitation' is unable to progress to subsequent milestones and criteria, justification must be provided to the administering authority and no amendment to the schedule will be required; progressive rehabilitation of the land will commence as soon as practicable.
- Note:** reference to "earlier than the nominated date in the schedule" means a date that is greater than one (1) year prior to the date nominated in the schedule.*
- PRCP5** Where an area achieves a rehabilitation milestone, the holder must continue to achieve the milestone criteria until a surrender is approved.
- PRCP6** The holder must maintain a risk register that identifies the risks to not achieving a **stable condition**¹ for post-mining land uses, and how the risks are being managed or minimised. The risk register must be reviewed every three (3) years.
- PRCP7** The holder must carry out monitoring of the rehabilitation activities in the rehabilitation areas in accordance with:
- a. any requirement under this schedule; and

¹ **Stable condition** has the same meaning as under s.111A of the *Environmental Protection Act 1994*, which states: Land is in a **stable condition** if:

- (a) the land is safe and structurally stable; and
- (b) there is no environmental harm being caused by anything on or in the land; and
- (c) the land can sustain a post mining land use.

- b. as necessary to demonstrate achievement of each rehabilitation milestone or management milestone criteria.

PRCP8 The holder must make and keep up to date records on, where relevant:

- a. Achievement and maintenance of each rehabilitation milestone criteria of this schedule.
- b. Rehabilitation activities and the results of those activities (including but not limited to, actions taken, date, location, methods, data collected, QA/QC, photos, waste tracking and disposal records, **appropriately qualified person (AQP)**² details and assumptions);
- c. Maintenance of rehabilitation and the results of maintenance activities;
- d. Monitoring of rehabilitation and the results of monitoring;
- e. Designs, drawings, specifications and any similar documents developed in accordance with good professional practice in relation to rehabilitation milestones or milestone criteria;
- f. All documents in relation to the requirements of this schedule, including reports (e.g. site investigation report), statements (e.g. site suitability statement), certifications, assessments, investigations, inspections, audits or any similar documents developed in relation to rehabilitation milestones or milestone criteria;
- g. Landholder agreements;
- h. Details of community consultation in the community consultation register relating to rehabilitation and closure activities.

PRCP9 Records made under **PRCP 8** must be kept until the relevant environmental authority has been surrendered.

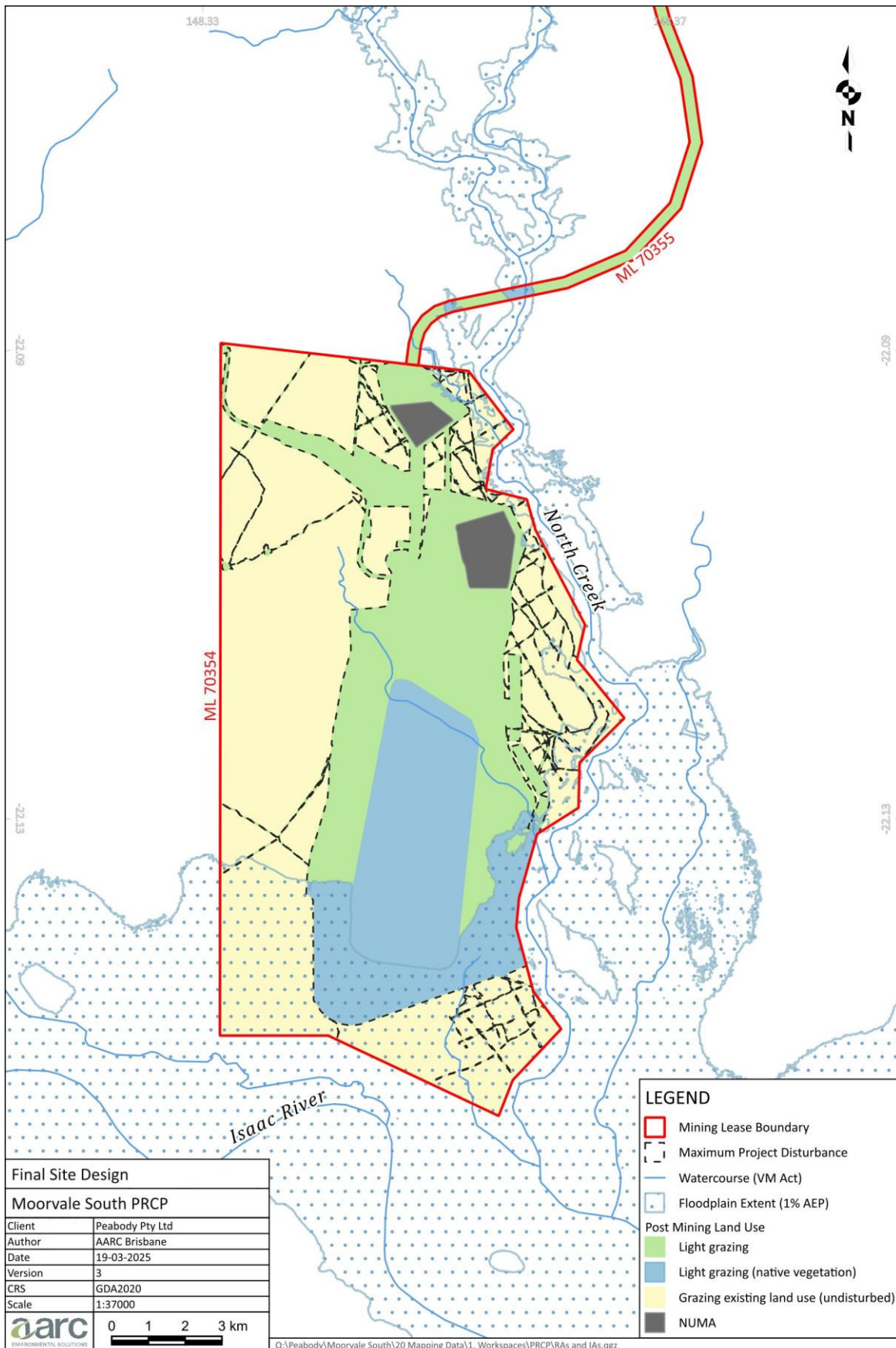
PRCP10 Records made under **PRCP 8** must be provided to the administering authority in the specified format within 10 business days of a written request.

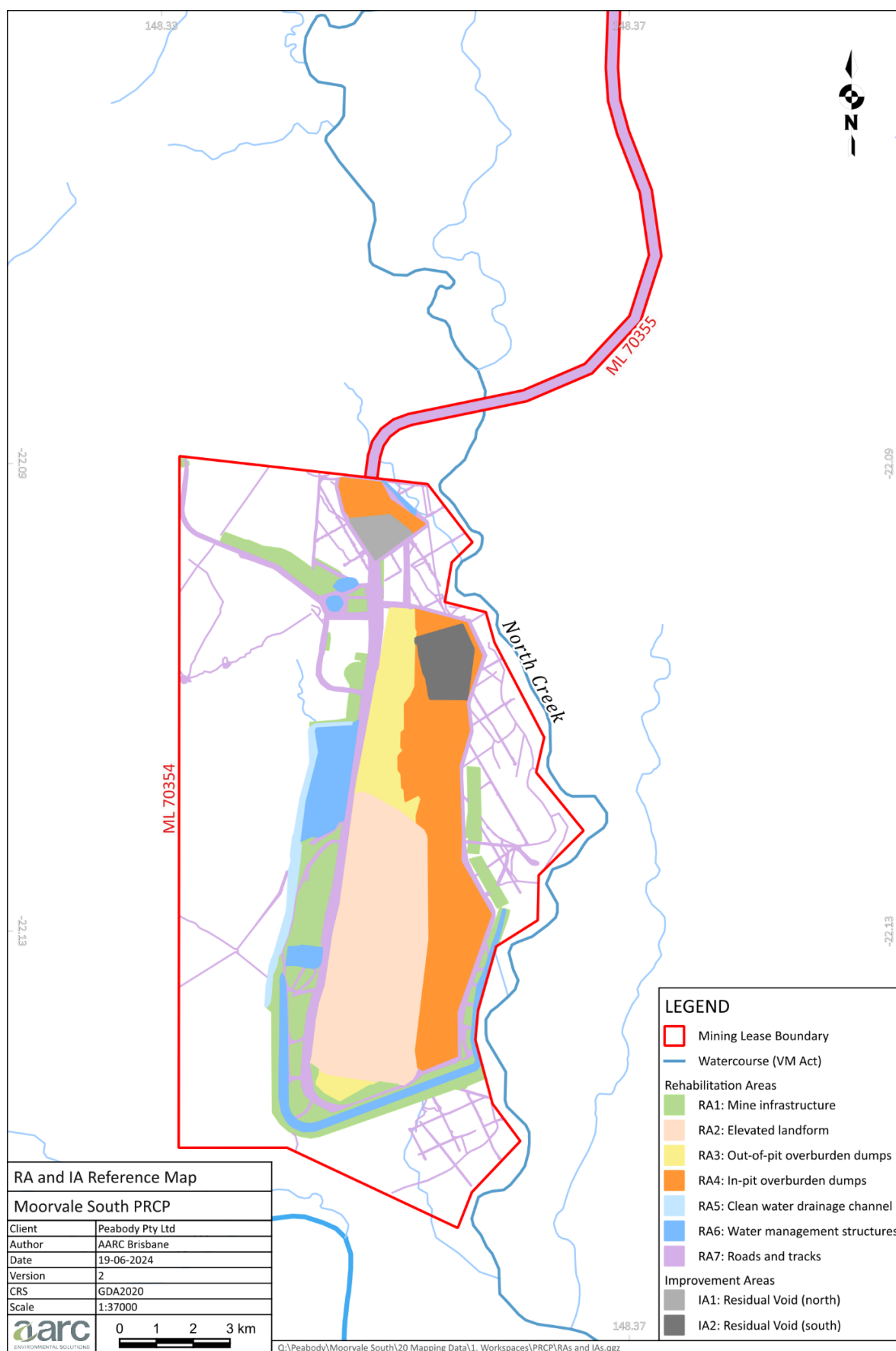
PRCP11 An **AQP**² must consider any relevant material published by an Australian government agency and The Office of the Queensland Mine Rehabilitation Commissioner and document how it was considered in any assessment required within the schedule.

END OF CONDITIONS

² **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 relating to the subject matter using the relevant protocols, standards, methods or literature; or as further defined in this schedule.

Section B - Final site design and reference maps





Section C – Post mining land uses

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)															
Rehabilitation area					RA1										
Relevant activities					Mine Infrastructure										
Total rehabilitation area size (ha)					129										
Commencement of first milestone: <insert milestone reference>					10/12/2028										
PMLU					Light Cattle Grazing										
Date area is available	10/12/28	10/12/31	10/12/32	10/12/33	10/12/34	10/12/35	10/12/36	10/12/37	10/12/38	10/12/39					
Cumulative area available (ha)	10	20	30	40	50	60	90	100	110	129					
Milestone completed by	10/12/2030	10/12/2033	10/12/36	10/12/39	10/12/42	10/12/45	10/12/48	10/12/51	10/12/54	10/12/57	10/12/60	10/12/63	10/12/66		
Milestone Reference	Cumulative area achieved (ha)														
RM1	10	20	50	100	129										
RM2		10	30	60	110	129									
RM3			10	40	90	129									
RM4				30	50	100	129								
RM5							20	30	60	110	129				
RM6								20	40	90	129				
RM7									10	20	50	100	129		

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)															
Rehabilitation area					RA2										
Relevant activities					Elevated Landform										
Total rehabilitation area size (ha)					181										
Commencement of first milestone: <insert milestone reference>					10/12/2026										
PMLU					Light Cattle Grazing										
Date area is available	10/12/25	10/12/26	10/12/27	10/12/28	10/12/29	10/12/30	10/12/31	10/12/35	10/12/36						
Cumulative area available (ha)	48	63	80	96	110	124	138	159	181						
Milestone completed by	10/12/28	10/12/31	10/12/34	10/12/37	10/12/40	10/12/43	10/12/46	10/12/49	10/12/52	10/12/55	10/12/58	10/12/61			
Milestone Reference	Cumulative area achieved (ha)														
RM3	48	96	138	138	181										
RM4		48	96	138	138	181									
RM5					27	80	124	138	181						
RM6						48	96	138	138	181					
RM7								63	110	138	159	181			

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)															
Rehabilitation area				RA3											
Relevant activities				Out-of-Pit Overburden Dump											
Total rehabilitation area size (ha)				59											
Commencement of first milestone: <insert milestone reference>				10/12/2026											
PMLU				Light Cattle Grazing											
Date area is available	10/12/25	10/12/26	10/12/35												
Cumulative area available (ha)	4	7	59												
Milestone completed by	10/12/28	10/12/31	10/12/34	10/12/37	10/12/40	10/12/43	10/12/46	10/12/49	10/12/52	10/12/55	10/12/58				
Milestone Reference	Cumulative area achieved (ha)														
RM3	4	7	7	7	59										
RM4		4	7	7	7	59									
RM5						7	7	7	59						
RM6						4	7	7	59						
RM7								7	7	7	59				

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)															
Rehabilitation area					RA4										
Relevant activities					In-pit Overburden Dump										
Total rehabilitation area size (ha)					152										
Commencement of first milestone: <insert milestone reference>					10/12/2027										
PMLU					Light Cattle Grazing										
Date area is available	10/12/27	10/12/28	10/12/29	10/12/30	10/12/31	10/12/35	10/12/36	10/12/37	10/12/38	10/12/39					
Cumulative area available (ha)	10	19	29	39	52	72	92	112	132	152					
Milestone completed by	10/12/2030	10/12/2033	10/12/36	10/12/39	10/12/42	10/12/45	10/12/48	10/12/51	10/12/54	10/12/57	10/12/60	10/12/63			
Milestone Reference	Cumulative area achieved (ha)														
RM3	19	52	52	112	152										
RM4		19	52	52	112	152									
RM5					10	39	52	92	152						
RM6						19	52	52	112	152					
RM7								29	52	72	132	152			

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)							
Rehabilitation area		RA5					
Relevant activities		Clean Water Drainage Channel					
Total rehabilitation area size (ha)		14					
Commencement of first milestone:		10/12/2026					
PMLU		Light Cattle Grazing					
Date area is available	10/12/25						
Cumulative area available (ha)	14						
Milestone completed by	10/12/2027	10/12/2030	10/12/2033	10/12/36	10/12/39	10/12/42	
Milestone Reference	Cumulative area achieved (ha)						
RM4	14	14	14				
RM5				14			
RM6					14		
RM7						14	

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)															
Rehabilitation area				RA6											
Relevant activities				Water Management Structures											
Total rehabilitation area size (ha)				63											
Commencement of first milestone: <insert milestone reference>				10/12/2036											
PMLU				Light Cattle Grazing											
Date area is available	10/12/36	10/12/37	10/12/38	10/12/39											
Cumulative area available (ha)	15	30	45	63											
Milestone completed by	10/12/39	10/12/42	10/12/45	10/12/48	10/12/51	10/12/54	10/12/57	10/12/60	10/12/63						
Milestone Reference	Cumulative area achieved (ha)														
RM1	30	63													
RM3		45	63												
RM4			45	63											
RM5						30	63								
RM6							45	63							
RM7								15	63						

(RA7) Rehabilitation area 7

Post-mining land uses (PMLU)																	
Rehabilitation area			RA7														
Relevant activities			Roads and Tracks														
Total rehabilitation area size (ha)			220														
Commencement of first milestone: RM1			10/12/2030														
PMLU			Cattle Grazing (ML70355) and Light Cattle Grazing (ML70354)														
Date area is available	10/12/30	10/12/34	10/12/35	10/12/36	10/12/37	10/12/38	10/12/44										
Cumulative area available (ha)	20	30	50	70	90	100	220										
Milestone completed by	10/12/2033	10/12/36	10/12/39	10/12/42	10/12/45	10/12/48	10/12/51	10/12/54	10/12/57	10/12/60	10/12/63	10/12/66	10/12/69	10/12/72			
Milestone Reference	Cumulative area achieved (ha)																
RM1	20	30	90	100	100	220											
RM2		20	50	100	100	220											
RM3		20	20	70	100	100	220										
RM4			20	20	70	100	100	220									
RM5							20	50	100	100	220						
RM6							20	20	70	100	220						
RM7									20	30	90	100	100	220			

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	1.1 A signed landholder agreement is in place for all retained infrastructure. 1.2 Except for any infrastructure to remain as part of the PMLU, and agreed to be retained by the landholder as evidenced by a signed landholder agreement, the following actions are complete for each Rehabilitation Area (RA): (a) All redundant services (such as water, electricity, and gas) disconnected and removed. (b) All buildings and associated infrastructure dismantled and removed from site. (c) All concrete slabs, hardstands, and footings removed from site. (d) All asphalt from sealed roads, carparks and hardstand areas removed from site. (e) All fencing removed from site. (f) All pipelines drained and removed from site. (g) All surface water drainage infrastructure, including watercourse crossings and culverts, removed from site. (h) All sediment ponds and sumps decommissioned. (i) All machinery and equipment removed from site. (j) All general waste removed from site to a licensed³ facility for disposal or recycling.
RM2	Management of contaminated land	2.1 Preliminary site assessment and related assessment report by a Suitably Qualified Person (SQP)⁴, meets the following requirements:

³ **Licensed** means, a waste transporter or waste facility holding an approval under the *Environmental Protection Act 1994* to transport, receive, store, recycle or dispose of the waste.

⁴ Here, a **suitably qualified person (SQP)** means, a suitably qualified person for performing a regulatory function under chapter 7, part 8 (Contaminated Land) of the *Environmental Protection Act 1994* or another function prescribed under a regulation, defined as a person who—

		(a) Site assessment identifies the presence of contamination or potential for contamination to exist in relevant rehabilitation areas (including the identification of potential sources of contamination, contaminants of concern, areas contaminated); and (b) Site assessment report Certification by the SQP: (i) verifies the contaminated land investigation document meets regulatory content requirements, including a statement of uses or activities for which the site is suitable; and (ii) confirms there is no contamination present that would undermine achievement of PMLU to stable conditions; and (iii) recommends further investigation where there is: risk of contaminants migrating from site, causing environmental harm, undermining the achievement of the PMLU, required under the <i>Environmental Protection Act 1994</i>, or for another reason identified by the SQP. 2.2 For any area recommended for further investigation by the SQP under 2.1, the following actions are complete: (a) detailed site investigation report completed in accordance with requirements of the <i>Environmental Protection Act 1994</i> and subordinate legislation; and (b) contaminated and hazardous materials remediated on site or removed by a licensed waste transporter to a facility licensed to receive the waste; and (c) waste-tracking records retained, and waste-transaction information submitted to the administering authority in accordance with requirements of the <i>Environmental Protection Act 1994</i> and subordinate legislation; and (d) SQP Certified validation report, confirming contaminated materials removed or rehabilitated, completed in accordance with requirements of the <i>Environmental Protection Act 1994</i>.
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- (a) has qualifications and experience relevant to performing the function; and
- (b) if a regulation prescribes an organisation for this paragraph—is a member of the organisation.

RM3	Landform development (reshaping and reprofiling)	Common criteria: 3. 1 All major earthworks, including drainage works and land reshaping and recontouring, comply with the following requirements: (a) construction is under the supervision of, an appropriately qualified person – engineering (AQP-Eng)⁵ in accordance with design specifications provided by an AQP-Eng; and (b) landforms are constructed such that: (i) there will be no runoff from landform tops onto batter slopes; and (ii) unless otherwise authorised under this schedule, the maximum slope is 1V:7H (~14 %); and (c) are consistent with the final site design in Figure 1 - Final site design; and (d) ‘as constructed’ Certification from an AQP-Eng, certifies that works have been completed in accordance with the design plans required under this schedule. (e) geotechnical stability report(s) Certified by an AQP-Eng, confirms long-term geotechnical stability of constructed landforms and that a Factor of Safety (FoS) of ≥ 1.5 has been achieved for each landform. 3. 2 Temporary erosion and sediment control measures are in place. Additional final landform requirements: 3. 3 Final landforms of Mine Infrastructure (RA1), Out-of-Pit Overburden Dump (RA3), and In-pit Overburden Dump (RA4) meet the following design specifications: (a) Slope – Vertical: Horizontal ≤ 2-5%; (b) Vertical height from natural ground level ≤ 5 m; and
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⁵ An **appropriately qualified person – engineering (AQP-Eng)** means a person who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the *Professional Engineers Act 2002* and has demonstrated competency and relevant experience in the relevant area e.g. Mining (Civil), Mining (Geotechnical).

		(c) Maximum distance between contour banks ≤ 500 m. 3. 4 Final landform of elevated overburden dump (RA2) meets the following design specifications: (a) Slope – Vertical: Horizontal $\leq 15\%$; (b) Vertical height from natural ground level ≤ 30 m; and (c) Maximum distance between contour banks ≤ 88 m. 3. 5 Final landform of water management structures (RA5) meets the following design specifications: (a) Slope – Vertical: Horizontal $\leq 30\%$; (b) Vertical height from natural ground level ≤ 15 m; and (c) Maximum distance between contour banks ≤ 45 m. 3. 6 Final landform of roads and tracks (RA7) meets the following design specifications: (a) Slope – Vertical: Horizontal $\leq 3\text{-}5\%$; (b) Vertical height from natural ground level ≤ 5 m; and (c) Maximum distance between contour banks ≤ 500 m.
RM4	Surface preparation (topsoil application, soil amelioration, contour ripping) and revegetation (seeding and/or planting)	4.1 Topsoil placed at the greater of the following depths: (a) minimum of 150mm of topsoil; or (b) minimum depth recommended by AQP to achieve the PMLU and target vegetation establishment. 4.2 Prior to each rehabilitation event: (a) soil health and suitability assessment of the in-situ soil/growth media characteristics is undertaken by an AQP, and endorsed as suitable to ensure achievement of the PMLU; (b) Where soil health and suitability assessment identify that the in-situ soil/growth media is not suitable, a recommendation is made for ameliorants to ensure achievement of the PMLU.

		4.3 Records demonstrate that ameliorants and appropriate mitigation measures have been undertaken as recommended by AQP. 4.4 Deep ripping at least 300mm into the soil/ subsoil profile along contour of slopes. 4.5 Seeding and planting completed using the species and at the planting/seeding rates detailed in Appendix 1: Pasture seed mix and Appendix 2: Native tree and shrub species; seed mix must include 3P (perennial, palatable and productive) species, with a minimum of 4 perennial grass species.
RM5	Achievement of surface requirements for post-mining land use	5.1 AQP Certification that there is no presence of erosion classified as moderate or severe, as defined in Appendix 3: Erosion classification framework. 5.2 AQP Certification, for each rehabilitation area, that: (a) Seeded/planted vegetation is substantially consistent with Appendix 1: Pasture seed mix and Appendix 2: Native tree and shrub species; and includes 3P (perennial, palatable and productive) species, with a minimum of 4 perennial grass species. (b) Total percentage of vegetation groundcover to be >50%. (c) Weed cover classified as prohibited or restricted matter (as defined under the <i>Biosecurity Act 2014</i>) is ≤10% (excluding exotic pasture grasses).
RM6	Achievement of post-mining land use to stable condition (light grazing)	6.1 A final rehabilitation assessment is completed by an appropriately qualified person¹ demonstrates that land has achieved long-term safe, stable, non-polluting and self-sustaining condition. AQP Certification that established pasture species, shrub species and tree species, where applicable, in each rehabilitation area are: (a) consistent with the target species in Appendix 1: Pasture seed mix and Appendix 2: Native tree and shrub species; and

		(b) include suitable 3P (perennial, palatable and productive) species, with a minimum of 4 perennial grass species; and (c) will support the proposed post-mining land use. 6.2 All temporary erosion and sediment control structures decommissioned. 6.3 AQP Certification that: (a) there is no presence, in any rehabilitation area, of erosion classified as moderate or severe, as defined in Appendix 3: Erosion classification framework; and (b) any erosion present will not compromise the achievement of PMLU to stable condition. 6.4 A hazard and safety assessment completed by an AQP Certifies: (a) the risks posed by hazards in rehabilitated areas are consistent with the post mining land use and regional land use, or are otherwise low; and (b) the risk to public safety, human health, and the environment, is not expected to increase over time. 6.5 AQP Certifies the following: (i) Have achieved grazing land suitability of Class 4 or better; and (ii) soil and subsoil/underlying spoil (0-60 cm) meet the following suitability criteria (derived from Land Class 4 land suitability parameters, Short 2023⁶): - Available Water Capacity (PAWC): 30 - <40 mm; - Bicarbonate P (at 0 -10cm depth): 4 - <8 mg/kg; - Electrical Conductivity (ECe, saturated): ≤ 16 dS/m; - Soil pH: 5.5 - 9.0; - Slope <10% achieves ESP (at 0 -10cm depth) of <14%;
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⁶ Short TA. 2023. Rehabilitated mined land suitability for beef cattle grazing in the Bowen Basin: Technical Paper 1. Brisbane: Queensland Mine Rehabilitation Commissioner, Queensland Government

		– Slope >10% achieves ESP (at 0 -10cm depth) of <6%.
RM7	Surface water and groundwater demonstrate non-polluting landform	7.1 Surface water is non-polluting as demonstrated by compliance with the following for a minimum of the five (5) consecutive years prior to surrender of the EA: (a) Surface water quality monitored quarterly at the surface water monitoring locations specified in Appendix 4: Surface water monitoring locations, for the parameters specified in Appendix 5: Surface water quality limits; and (b) Surface water quality results do not exceed the limits in Appendix 5: Surface water quality limits, for 3 consecutive results within any five-year period. 7.2 Groundwater is non-polluting as demonstrated by compliance with the following for a minimum of the five (5) consecutive years prior to surrender: (a) Groundwater quality monitored quarterly at the groundwater monitoring bore locations specified in Appendix 6: Groundwater monitoring locations, for the parameters specified in Appendix 7: Groundwater quality limits; and (b) Groundwater quality results do not exceed the limits in Appendix 7: Groundwater quality limits, for 3 consecutive results within any five-year period.

Section D – Non-use management areas

(IA1) Improvement area 1

Non-use management area (NUMA)										
Improvement area				IA1						
Relevant activities				Residual Void (X Pit)						
Total size (ha)				11						
Commencement of first milestone: <insert milestone reference>				10/12/2032						
NUMA				Final Void						
Date area is available	10/12/32									
Cumulative area available (ha)	11									
Milestone completed by	10/12/41									
Milestone Reference	Cumulative area achieved (ha)									
MM1	11									
MM2	11									
MM3	11									

(IA2) Improvement area 2

Non-use management area (NUMA)										
Improvement area				IA2						
Relevant activities				Residual Void (Z Pit)						
Total size (ha)				25						
Commencement of first milestone: <insert milestone reference>				10/12/2032						
NUMA				Final Void						
Date area is available	10/12/32									
Cumulative area available (ha)	25									
Milestone completed by	10/12/41									
Milestone Reference	Cumulative area achieved (ha)									
MM1	25									
MM2	25									
MM3	25									

Improvement area milestones

Milestone reference	Management milestone	Milestone criteria
MM1	Achievement of final landform design	8.1 There are two residual voids, which comply with the relevant design specifications (for the specific void) in Appendix 8: Residual void design. 8.2 Maximum combined area of residual voids is ≤ 36 ha. 8.3 Backfilling in relevant void areas is completed for flood mitigation. 8.4 Low walls are free draining into the residual void lake. 8.5 Highwall landforms: (a) prevent surface flow of floodwater into the void (b) are geotechnically stable when floodwater is against the batter (c) prevent seepage flow of floodwater into the void. 8.6 An AQP-Eng has certified that: (a) highwall battered to a maximum slope of $\leq 104\%$ (46°) (b) low wall battered to a maximum slope of $\leq 62\%$ (32°) (c) highwalls and low walls achieve factor of safety ≥ 1.5 within the NUMA extents (d) residual voids are not subjected to floodwaters up to and including the 0.1% AEP (e) residual voids act as a groundwater sink within the tenure boundary as demonstrated by groundwater modelling (f) Predictive modelling confirms that there is no risk of over topping.
MM2	Achievement of surface and safety requirements	9.1 Safety infrastructure established around the void, including the following: (a) adequate bunding in place confirmed to be geotechnically stable by an AQP; and (b) perimeter fencing and signage erected around the outside of the safety bund to prevent access to fauna and humans to the residual void with five strand barbed stock fencing; and

		(c) warning signage designed in accordance with requirements of the <i>Coal Mining, Safety and Health Act 1999</i>. 9.2 Safety bund constructed at 2 m in height, 4 m in base width and 10 m beyond the area which may be affected by void edge instability. 9.3 Appropriate Seed mix applied to low walls above the maximum modelled water level, where practicable.
MM3	Achievement of sufficient improvement	10.1 AQP Certification that: (a) low wall areas above maximum modelled water level, have a minimum 30% vegetation cover, where practicable. 10.2 Certification from an AQP-Eng that the final NUMAs are in full compliance with items (a) to (i) below: (a) Predictive hydrological modelling and void water quality modelling re-run at end of mine life and calibrated against the final landform, demonstrates that the residual voids will continue to act as groundwater sinks and: (i) residual void water level will remain below 127 mAHD for Z pit; and (ii) residual void water level will remain below 148 mAHD for X pit; and (iii) each void will retain flood immunity in a probable maximum precipitation storm event; and (iv) water quality in the voids will not cause environmental harm to the surrounding environment; and (b) the highwall landform has designed by and AQP-Eng and constructed in accordance with those design specifications; and (c) a geotechnical assessment demonstrates a negligible probability of wall failure, slippage, or rock fall. (d) each void meets requirements specified in Appendix 8: Residual void design; and (e) security fencing installed at the voids is appropriately located, in good condition, fit for purpose, and meets requirements specified in criterion 8.1 of this schedule; and

		(f) safety signage is in place and secure and complies with requirements of condition 2.3 of this schedule; and (g) residual voids will not cause environmental harm outside of the relevant tenure boundary; and (h) residual voids are safe to humans and livestock; and (i) erosion occurring within the NUMAs will not adversely impact the stability of adjacent RA's.
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Appendices

Appendix 1: Pasture seed mix

Common name	Scientific name	Indicative Sowing rate (kg/ha)
Gayndah Buffel Grass	<i>Cenchrus ciliaris</i>	3
Sabi Grass	<i>Urochloa mosambicensis</i>	2
Fine Cut Rhodes	<i>Chloris gayana</i>	3
Butterfly Pea / Wynn Cassia	<i>Clitoria ternatea</i>	3
Seca Soran Stylo	<i>Stylosanthes scabra</i>	4
3P Species		
Queensland Bluegrass	<i>Dicanthium sericeum</i>	2
Curly Bluegrass	<i>Dicanthium fecundum</i>	2
Native Millet	<i>Panicum decompositum</i>	2
Brigalow grass	<i>Paspalidium species</i>	2
Minimum total sowing rate		23

Appendix 2: Native tree and shrub species

Genus	Scientific name	Properties
Acacia	<i>Acacia flavescens</i>	Leguminous species suitable for erosion management on slopes.
	<i>A. shirleyi</i>	
	<i>Corymbia clarksonii</i>	
Corymbia	<i>C. dallachiana</i>	Key canopy species for several REs.
	<i>C. intermedia</i>	
	<i>C. erythrophloia</i>	
	<i>C. tessellaris</i>	
Eucalyptus	<i>Eucalyptus crebra</i>	Key canopy species for several REs.
	<i>E. platyphylla</i>	
	<i>E. persistens</i>	
	<i>E. populnea</i>	
	<i>E. melanophloia</i>	
	<i>E. tereticornis</i>	

Appendix 3: Erosion classification framework

Erosion classification	Minor	Moderate	Severe
Sheet erosion	Shallow soil deposits downslope	Partial exposure of roots; moderate soil deposits downslope	Loss of surface horizon; subsoil exposure, root exposure, substantial soil deposits downslope
Rill / gully erosion	< 15 rills/transect* and < 0.3 m deep	15-30 rills/transect* and < 0.3 m deep	> 30 rills/transect* and / or any > 0.3 m deep.
Tunnel erosion	Absent	Absent	Present
Mass movement	Absent	Absent	Present

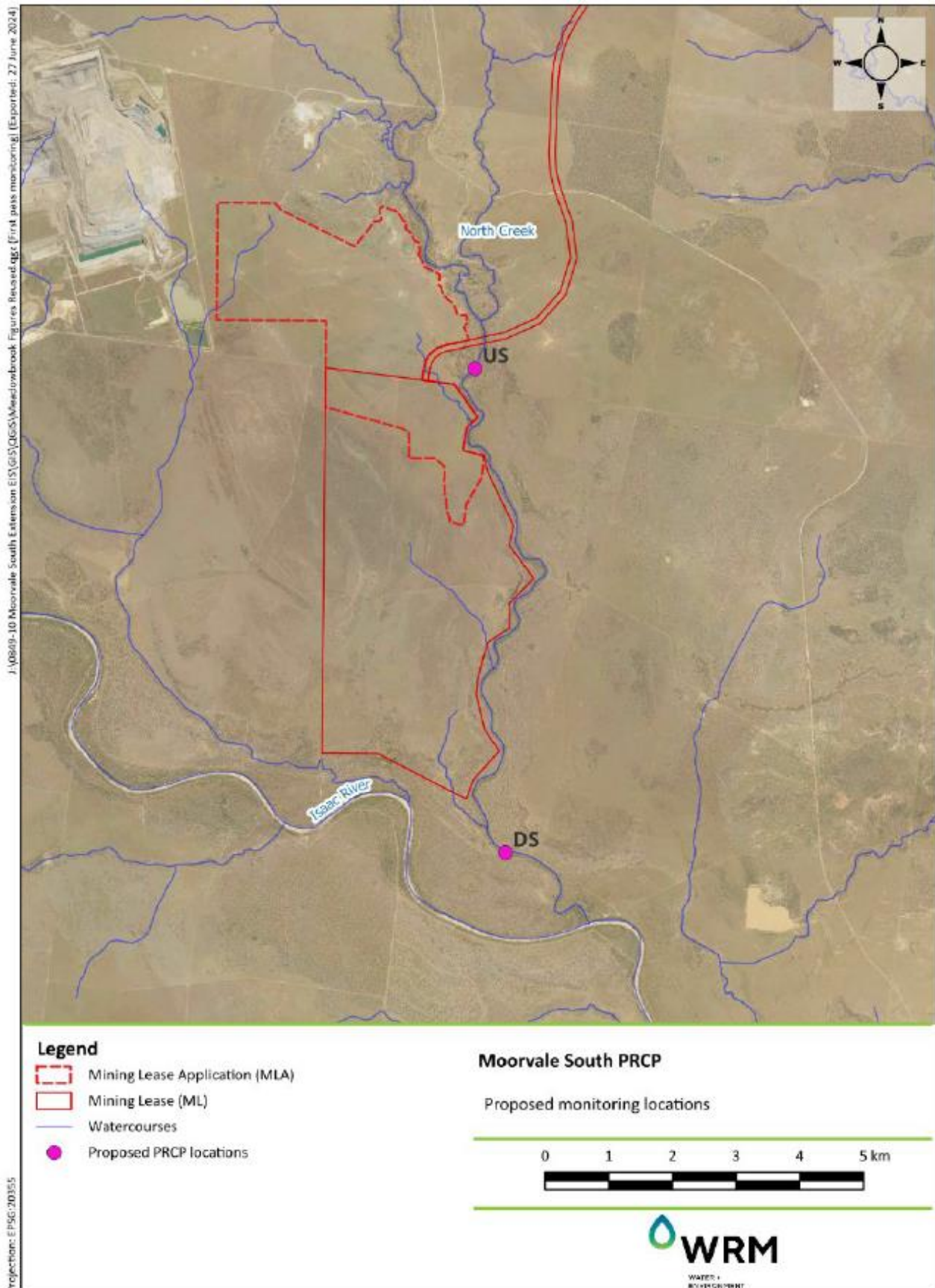
Source: NCST (2009) *Australian Soil and Land Survey Field Handbook, 3rd edition*. The National Committee on Soil and Terrain. CSIRO Publishing, Collingwood, Australia.

*Transect 100 m across the contour (Source: Tongway, D. J. and Hindley, N. L. 2005. *Landscape Function Analysis: Procedures for Monitoring and Assessing Landscapes*. CSIRO Publishing, Canberra, Australia.)

Appendix 4: Surface water monitoring locations

Monitoring Points	Receiving Waters Location Description	Easting (GDA94)	Northing (GDA94)
<i>Upstream Monitoring Points</i>			
US North Creek	450 m downstream of the connecting haul road	640010	7556760
<i>Downstream Monitoring Points</i>			
DS North Creek	2.5 km downstream of the final landform	640490	7549160

Figure 3 – Surface water monitoring locations



Appendix 5: Surface water quality limits

Quality characteristic (units)	Limit	Source
pH	6.5-8.5	Upper Isaac River catchment waters WQO
Electrical Conductivity (µS/cm)	720 250	Baseflow - Upper Isaac River catchment waters WQO Highflow - Upper Isaac River catchment waters WQO
Turbidity (NTU)	50	Upper Isaac River catchment waters WQO
Sulphate (mg/L)	25	Upper Isaac River catchment waters WQO
Fluoride (mg/L)	1.7	ANZG 2018
Aluminium - dissolved (µg/L)	55	ANZG 2018
Arsenic - dissolved (µg/L)	13	ANZG 2018
Boron – dissolved (µg/L)	370	ANZG 2018
Cadmium - dissolved (µg/L)	0.2	ANZG 2018
Cobalt - dissolved (µg/L)	1.4	ANZG 2018
Chromium - dissolved (µg/L)	1	ANZG 2018
Copper - dissolved (µg/L)	1.4	ANZG 2018
Iron - dissolved (µg/L)	300	
Lead - dissolved (µg/L)	3.4	ANZG 2018
Manganese - dissolved (µg/L)	1,900	ANZG 2018
Mercury (inorganic) - dissolved (µg/L)	0.06	ANZG 2018
Molybdenum - dissolved (µg/L)	34	ANZG 2018
Nickel - dissolved (µg/L)	11	ANZG 2018
Selenium - dissolved (µg/L)	10	ANZG 2018
Silver - dissolved (µg/L)	0.05	ANZG 2018
Uranium - dissolved (µg/L)	0.5	ANZG 2018
Vanadium - dissolved (µg/L)	6	ANZG 2018
Zinc - dissolved (µg/L)	8	ANZG 2018
Nitrate (µg/L)	1100	
Total recoverable hydrocarbons (C6-C9) (µg/L)	20	

Quality characteristic (units)	Limit	Source
Total recoverable hydrocarbons (C10-C36) (µg/L)	100	
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	For interpretation purposes only	
Hardness (mg/L)	For interpretation purposes only	

Notes:

- All metals and metalloids must be measured as 'dissolved' (from analysis of a field filtered sample) and total (unfiltered).
- Limits for metals and metalloids apply to dissolved results.
- Upper Isaac River catchment water WQOs
- ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection). <https://www.waterquality.gov.au/anz-guidelines/guideline-values/default/water-quality-toxicants/search>

Appendix 6: Groundwater monitoring locations

Monitoring Bore	Hydrogeological Unit	Easting (GDA94 Zone 55)	Northing (GDA94 Zone 55)
MS0128	Leichhardt Seam	639750	7551426
MS0135	Alluvium	640000	7551811
MS0163	Vermont Upper Seam	639944	7551802
MS0117	Alluvium	640310	7554734
MS0129	Alluvium	638921	7550183
MS0113	Regolith / Rangal Overburden	640089	7557236
MS0125	Fort Cooper Coal Measures - Coal	639451	7554580
MS0162	Fort Cooper Coal Measures - Coal	638599	7553465
MVSX2A	Weathered Tertiary sediments	639820	7555922
MVSX2P	Leichhardt Seam	639816	7555922
MVSX4P	Leichhardt Seam	640084	7557254
MVSX6P	Fort Cooper Coal Measures	638296	7556095

Appendix 7: Groundwater quality limits

Quality characteristic (units)	Monitoring Bore	Limit
pH	All bores	6.5-8.5
Electrical Conductivity ($\mu\text{S}/\text{cm}$)	All bores	TBC
Sulphate (mg/L)	All bores	25
Fluoride (mg/L)	All bores	1.7
Aluminium - dissolved ($\mu\text{g}/\text{L}$)	All bores	55
Arsenic - dissolved ($\mu\text{g}/\text{L}$)	All bores	13
Boron – dissolved ($\mu\text{g}/\text{L}$)	All bores	370
Cadmium - dissolved ($\mu\text{g}/\text{L}$)	All bores	0.2
Cobalt - dissolved ($\mu\text{g}/\text{L}$)	All bores	1.4
Chromium - dissolved ($\mu\text{g}/\text{L}$)	All bores	1
Copper - dissolved ($\mu\text{g}/\text{L}$)	All bores	1.4
Iron - dissolved ($\mu\text{g}/\text{L}$)	All bores	300
Lead - dissolved ($\mu\text{g}/\text{L}$)	All bores	3.4
Manganese - dissolved ($\mu\text{g}/\text{L}$)	All bores	1,900
Mercury (inorganic) - dissolved ($\mu\text{g}/\text{L}$)	All bores	0.06
Molybdenum - dissolved ($\mu\text{g}/\text{L}$)	All bores	34
Nickel - dissolved ($\mu\text{g}/\text{L}$)	All bores	11
Selenium - dissolved ($\mu\text{g}/\text{L}$)	All bores	10
Silver - dissolved ($\mu\text{g}/\text{L}$)	All bores	0.05
Uranium - dissolved ($\mu\text{g}/\text{L}$)	All bores	0.5
Vanadium - dissolved ($\mu\text{g}/\text{L}$)	All bores	6
Zinc - dissolved ($\mu\text{g}/\text{L}$)	All bores	8
Nitrate ($\mu\text{g}/\text{L}$)	All bores	1100
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	All bores	For interpretation purposes only
Hardness (mg/L)	All bores	For interpretation purposes only

Quality characteristic (units)	Monitoring Bore	Limit
Water Level (mAHD)	All bores	For interpretation purposes only

Notes:

- All metals and metalloids must be measured as 'dissolved' (from analysis of a field filtered sample) and total (unfiltered).
 - Limits for metals and metalloids apply to dissolved results.
1. DEHP (2011) Isaac River Sub Basin WQO – surface water
 2. ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection). <https://www.waterquality.gov.au/anz-guidelines/guideline-values/default/water-quality-toxicants/search>

Appendix 8: Residual void design

Material	Residual Void high wall – competent rock maximum slope (%)	Residual Void low wall – incompetent rock maximum slope (%)	Total void surface area (ha)
Intact pit slope	104 (46 degrees)	NA	36
Backfill spoil	NA	62 (32 degrees)	

END OF PRCP SCHEDULE