

PRCP schedule

Environmental Protection Act 1994

PRCP schedule PRCP_EPPR00668513_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_EPPR00668513_V1

PRCP schedule holder(s)

Name(s)	Registered address
BHP MITSUI COAL PTY LTD ACN: 009 713 875	Level 14, 480 Queen Street BRISBANE CITY QLD 4000 Australia

Location details

Location(s)
ML1790, ML4752, ML70443, ML70495

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

31 January 2022

Date

Alison O'Brien
Department of Environment and Science
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 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 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' or is able to commence earlier than the 'Commencement of first milestone' date, 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.

This may be applicable to only a portion of a Rehabilitation Area. If this is the case the dates by which milestones are to be completed will be brought forward by the same amount of time as the commencement was brought forward, only for this specific portion of hectares.

PRCP4 Rehabilitation of areas disturbed by exploration activities in a Category B Environmentally Sensitive Area or within 500m of a Category B Environmentally Sensitive Area must commence as soon as practicable to the extent that erosion impacts are minimised, and be completed as soon as practicable but no longer than three (3) months after completion of the disturbance activity.

END OF CONDITIONS

Section B - Final site design and reference maps

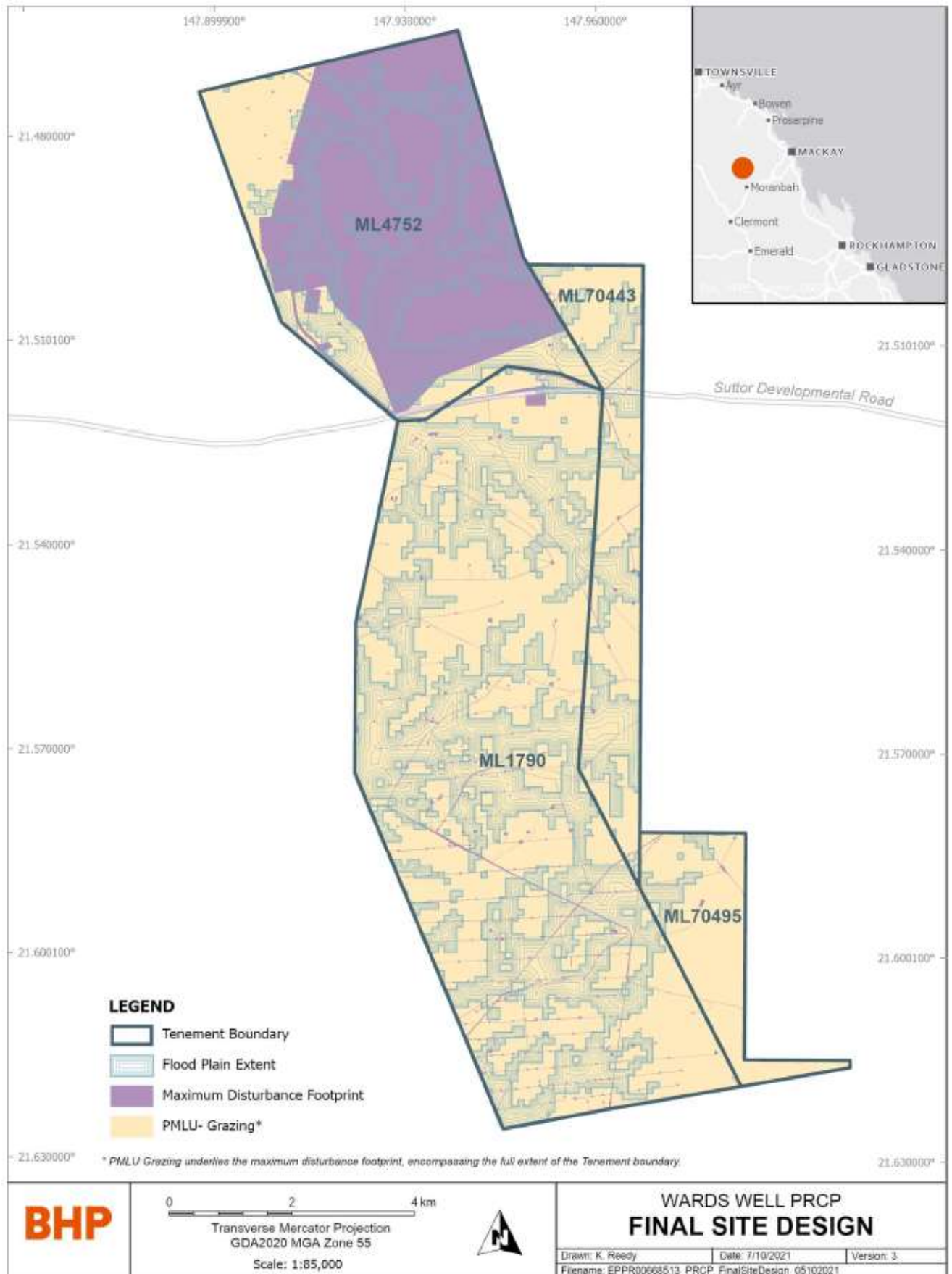


Figure 1 – Final Site Design

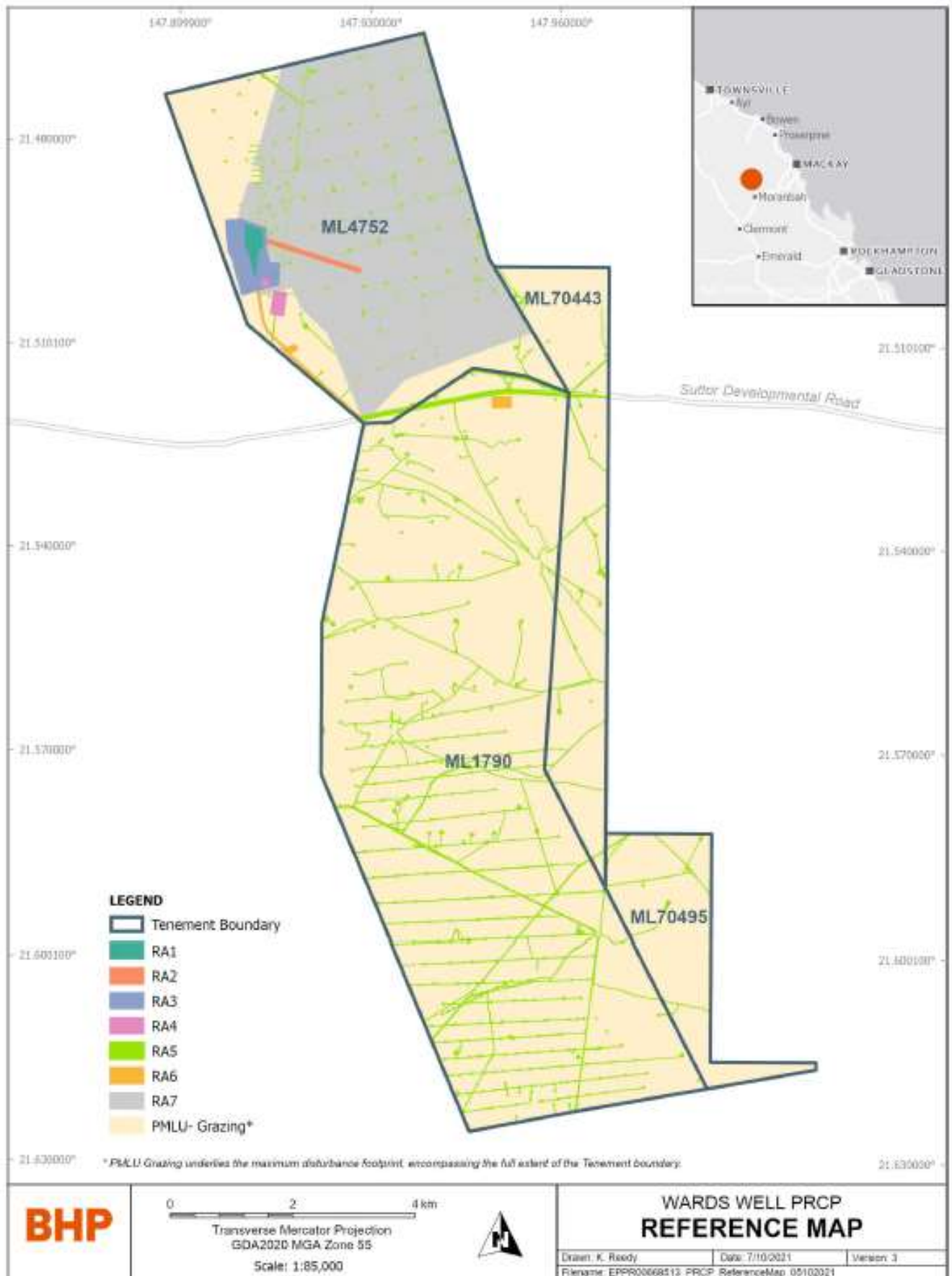


Figure 2 – Reference Map

Section C – Post mining land uses

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)					
Rehabilitation area			RA1		
Relevant activities			Box cut pit		
Total rehabilitation area size (ha)			15		
Commencement of first milestone: RM3			10/12/2038		
PMLU			Cattle grazing		
Date area is available	10/12/33				
Cumulative area available (ha)	15				
Milestone completed by	10/12/41	10/12/44	10/12/54	10/12/59	
Milestone Reference	Cumulative area achieved (ha)				
RM3	15				
RM2		15			
RM4		15			
RM5		15			
RM6			15		
RM7				15	

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)				
Rehabilitation area			RA2	
Relevant activities			Underground exploration	
Total rehabilitation area size (ha)			14	
Commencement of first milestone: RM1			10/12/2033	
PMLU			Cattle grazing	
Date area is available	10/12/33			
Cumulative area available (ha)	14			
Milestone completed by	11/12/36	10/12/46	10/12/51	
Milestone Reference	Cumulative area achieved (ha)			
RM1	14			
RM3	14			
RM6		14		
RM7			14	

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)							
Rehabilitation area				RA3			
Relevant activities				Bulk sample general area - Overburden stockpile, ROM coal stockpile, topsoil stockpiles and surrounding area			
Total rehabilitation area size (ha)				59			
Commencement of first milestone: RM2				10/12/2033			
PMLU				Cattle grazing			
Date area is available	10/12/33	10/12/41					
Cumulative area available (ha)	6	59					
Milestone completed by	10/12/36	10/12/44	10/12/46	10/12/51	10/12/54	10/12/59	
Milestone Reference	Cumulative area achieved (ha)						
RM2	6	59					
RM3	6	59					
RM4	6	59					
RM5	6	59					
RM6			6		59		
RM7				6		59	

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)				
Rehabilitation area			RA4	
Relevant activities			Mine water dam and stormwater dam	
Total rehabilitation area size (ha)			11	
Commencement of first milestone: RM1			10/12/2049	
PMLU			Cattle grazing	
Date area is available	10/12/49			
Cumulative area available (ha)	11			
Milestone completed by	10/12/52	10/12/62	10/12/67	
Milestone Reference	Cumulative area achieved (ha)			
RM1	11			
RM2	11			
RM3	11			
RM4	11			
RM5	11			
RM6		11		
RM7			11	

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)						
Rehabilitation area				RA5		
Relevant activities				Exploration - drilling and associated tracks		
Total rehabilitation area size (ha)				277		
Commencement of first milestone: RM1				10/12/2021		
PMLU				Cattle grazing		
Date area is available	10/12/21	10/12/26				
Cumulative area available (ha)	47	277				
Milestone completed by	10/12/26	10/12/31	10/12/36	10/12/41	10/12/46	
Milestone Reference	Cumulative area achieved (ha)					
RM1	47	277				
RM2	47	277				
RM3	47	277				
RM4	47	277				
RM5	47	277				
RM6			47	277		
RM7				47	277	

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)				
Rehabilitation area			RA6	
Relevant activities			Infrastructure - industrial area, administration area, exploration camp, sewage treatment plant, roads	
Total rehabilitation area size (ha)			22	
Commencement of first milestone: RM1			10/12/2044	
PMLU			Cattle grazing	
Date area is available	10/12/44			
Cumulative area available (ha)	22			
Milestone completed by	10/12/47	10/12/57	10/12/62	
Milestone Reference	Cumulative area achieved (ha)			
RM1	22			
RM2	22			
RM3	22			
RM4	22			
RM5	22			
RM6		22		
RM7			22	

(RA7) Rehabilitation area 7

Post-mining land uses (PMLU)					
Rehabilitation area				RA7	
Relevant activities				Seismic area	
Total rehabilitation area size (ha)				1639	
Commencement of first milestone: RM6				10/12/2021	
PMLU				Cattle grazing	
Date area is available	10/12/21	10/12/23			
Cumulative area available (ha)	1190	1639			
Milestone completed by	10/12/26	10/12/28	10/12/31	10/12/33	
Milestone Reference	Cumulative area achieved (ha)				
RM6	1190	1639			
RM7			1190	1639	

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	a) All services disconnected b) All built and service infrastructure demolished and removed (except where agreed in writing by the post-mining land owner / holder) c) All concrete, bitumen and aggregate removed d) All waste and rubbish removed e) All exploration drill holes decommissioned f) All water within the storm water dam and the mine water dam removed
RM2	Remediation of contaminated land	a) All contamination is remediated or removed from site in accordance with relevant legislation b) A contaminated land survey is carried out by a suitably qualified person confirming the land does not present an unacceptable risk to proposed future land uses or the environment
RM3	Landform development and reshaping	a) For RA1, box-cut void backfill completed, with carbonaceous waste co-mingled and mixed in non-carbonaceous waste b) Landform is reshaped to be free-draining with slopes $\leq 5\%$ and consistent with the surrounding topography c) For RA1, underground seals certified by an appropriately qualified person¹ (where assessed by the appropriately qualified person as being required) ¹Appropriately qualified person: 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.
RM4	Surface preparation	a) Topsoil is placed at an average thickness of 200mm b) An assessment of soil and growth media characteristics is completed by an appropriately qualified person¹, and amelioration and other treatments required identified c) Ameliorant and physical treatments are applied as identified in RM4(b) d) Rip across the contour

RM5	Revegetation (cattle grazing)	a) Completed seeding in accordance with the recommended pasture mix (grasses, cover crop and legumes) of Table RM5 – Recommended Pasture Mix, and seeding rates (up to 25kg/ha) Table RM5 – Recommended Pasture Mix <table border="1"> <thead> <tr> <th>Common Name</th><th>Scientific Name</th><th>Sowing Rate (kg/ha)</th></tr> </thead> <tbody> <tr> <td>Queensland Bluegrass</td><td><i>Dichanthium sericeum</i></td><td>6</td></tr> <tr> <td>Buffel grass</td><td><i>Cenchrus ciliaris</i></td><td>4</td></tr> <tr> <td>Stylo</td><td><i>Stylosanthes scabra</i></td><td>2</td></tr> <tr> <td>Black spear grass</td><td><i>Heteropogon contortus</i></td><td>5</td></tr> <tr> <td>Mitchell grasses</td><td>Bull Mitchell grass (<i>Astrebla squarrosa</i>), Curly Mitchell grass (<i>Astrebela lappacea</i>) and Hoop Mitchell Grass (<i>Astrebela elymoides</i>)</td><td>3</td></tr> <tr> <td>Shirohie millet</td><td><i>Echinochloa esculenta</i></td><td>5</td></tr> <tr> <td colspan="2">TOTAL</td><td>25</td></tr> </tbody> </table>	Common Name	Scientific Name	Sowing Rate (kg/ha)	Queensland Bluegrass	<i>Dichanthium sericeum</i>	6	Buffel grass	<i>Cenchrus ciliaris</i>	4	Stylo	<i>Stylosanthes scabra</i>	2	Black spear grass	<i>Heteropogon contortus</i>	5	Mitchell grasses	Bull Mitchell grass (<i>Astrebla squarrosa</i>), Curly Mitchell grass (<i>Astrebela lappacea</i>) and Hoop Mitchell Grass (<i>Astrebela elymoides</i>)	3	Shirohie millet	<i>Echinochloa esculenta</i>	5	TOTAL		25
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RM6	Achievement of surface requirements (cattle grazing)	a) Pasture condition rating ≤ 3, based on the Pasture Condition Assessment Table as per Stocktake: Balancing Supply and Demand (https://futurebeef.com.au/workshops/sustainable-grazing/stocktake-balancing-supply-demand/), as provided in Table 33 of the Wards Well Progressive Rehabilitation and Closure Plan, Version 3.0, 1 December 2021, including: • Preferred pasture species (3P grasses²) diversity ≥ 2 species • Preferred pasture (3P grasses²) % DM yield $\geq 10\%$ • Annual grass DM yield % $< 70\%$ • Undesirable grasses and other weeds % DM yield $< 80\%$ • Crown cover (3P grasses²) – at worst, moderate to low density and some plants dead ²3P grasses: native and naturalised exotic grass species that are perennial, palatable, and productive plants to stock																								

RM7*	Achievement of post-mining land use to a stable condition (cattle grazing)	a) A hazard assessment has been completed by an appropriately qualified person¹ to confirm safety hazards in rehabilitation are not significantly different to surrounding unmined landscapes subject to the same land use b) Rehabilitation of RA2 is assessed as geotechnically stable, by an appropriately qualified person¹, with FoS$\geq$1.5 c) Groundcover³ >50% d) Rainfall runoff from the area is not significantly different to upstream values for the following: pH, EC and turbidity as per the Wards Well Progressive Rehabilitation and Closure Plan, Version 3.0, 1 December 2021, Appendix 13, Figure 37. e) Deep drainage from the area is not significantly different, as per the Wards Well Progressive Rehabilitation and Closure Plan, Version 3.0, 1 December 2021, Appendix 13, Figure 37, to EC levels of: - the Environmental Protection (Water and Wetland Biodiversity) Policy 2019 schedule documents water quality objectives for relevant groundwater chemistry zones; or - local water quality objectives developed in accordance with the latest version of the Queensland Water Quality Guidelines. f) Land suitability class $\leq$3, or not different from pre-mining class if $\geq$4, as per Table RM7 – Land Suitability Rule-Set (Cattle Grazing). The assessment is to be conducted by an appropriately qualified person¹ and completed in accordance with LSA Framework for Open-Cut Coal Mine Rehabilitation 2018 (A rule-set for land suitability assessment of sustainable beef cattle grazing on land rehabilitated after open-cut coal mining in the Bowen Basin Queensland) unless otherwise agreed in writing between the administering authority and the environmental authority holder. For RM7(f), if the land suitability class is assessed as not different from pre-mining class if $\geq$4 for all or a portion of a rehabilitation area, an assessment of reference sites⁴ must be carried out to determine if the limitation/s resulting in the class of $\geq$4 is consistent with that of reference sites. g) Certification by an appropriately qualified person¹ that pasture meets a pasture condition rating $\leq$3, based on the Pasture Condition Assessment Table as per Stocktake: Balancing Supply and Demand (https://futurebeef.com.au/workshops/sustainable-grazing/stocktake-balancing-supply-demand/), as provided in Table 33 of the Wards Well Progressive Rehabilitation and Closure Plan, Version 3.0, 1 December 2021. *Criteria a), b) and f) do not apply to RA7 ³Groundcover: to anything in contact with the soil surface, for example, rocks, stones, sticks, leaves, grass, hay ⁴Reference site: representative undisturbed grazing land adjacent to the disturbance areas
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Table RM7 – Land Suitability Rule-Set (Cattle Grazing)							
Limitation	Indicator	Units	Suitability class				
			1	2	3	4	5
Water availability	PAWC in ERD	mm/0.6d	> 75	75 - 60	< 60 - 45	< 45 - 30	< 30
Nutrient supply	P in 0.1m	mg / kg	> 20	20 - 14	< 14 - 8	< 8 - 4	< 4
	pH in 0.1m	pH units	7.3 – 6.6	< 6.6 – 6.0 or > 7.3 – 8.0	< 6.0 – 5.5 or > 8.0 – 8.5	< 5.5 – 5.0 or > 8.5 – 9.0	< 5.0 or > 9.0
Soil physical factors	Surface soil structure	variable	Fine (peds < 10mm)	Coarse (peds > 10mm)	Surface crust	Very hard setting	Massive
Salinity	EC in ERD	dS/m	< 2	2 - < 4	4 - < 10	10 - < 16	≥ 16
Rockiness	Fragments on surface	%	< 5	5 - 10	10 - 30	30 - 60	> 60
Topography (slope)	Gradient, surface	%	< 5	5 - < 10	10 - < 15	15 - < 20	≥ 20
	Vertical interval, surface	m	Nil ripping furrows	Regular ripping furrows < 0.2m	Regular ripping furrows > 0.2 – 0.4m	Regular ripping furrows > 0.4 – 0.6m	Regular ripping furrows > 0.6m
Water erosion, surface soil	Slope (ESP in 0.1m < 6)	%	< 5	5 - 8	> 8 - 12	> 12 - 18	> 18
	Slope (ESP in 0.1m > 6 - < 14)	%	< 3	3 - 6	> 6 - 10	> 10 - 12	> 12
	Slope (ESP in 0.1m > 14)	%	< 1	1 - 2	> 2 - 4	> 4 - 6	> 6
Sub-soil erosion	ESP at 0.5m	%	< 7	7 - 14	> 14 - 23	> 23 - 34	> 34
Potentially acid forming materials	pH < 4.5	pH units	Not likely to be present within 5m of surface	Not likely to be present within 3m of surface	Not likely to be present within 2m of surface	Present immediately below root zone (0.9 – 0.6m)	Present within root zone (surface 0.6m)

END OF PRCP SCHEDULE