

PRCP schedule

Environmental Protection Act 1994

PRCP schedule PRCP_EPML00350213_V3

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 schedule PRCP_EPML00350213_V3

PRCP schedule holder(s)

Name(s)	Registered address
Bogside Mining Industries Pty Ltd ACN: 114 041 879	132 Commercial Road TENERIFFE QLD 4005

Location details

Location(s)
ML4568; ML4584; ML4675; ML4683; ML4698; ML4699 and ML50175

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.

eburgess

Signature

17 July 2023

Date

Emma Burgess

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

Enquiries:

Business Centre (Coal)
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

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; and
 - (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

Figure 1. Final site design and land use

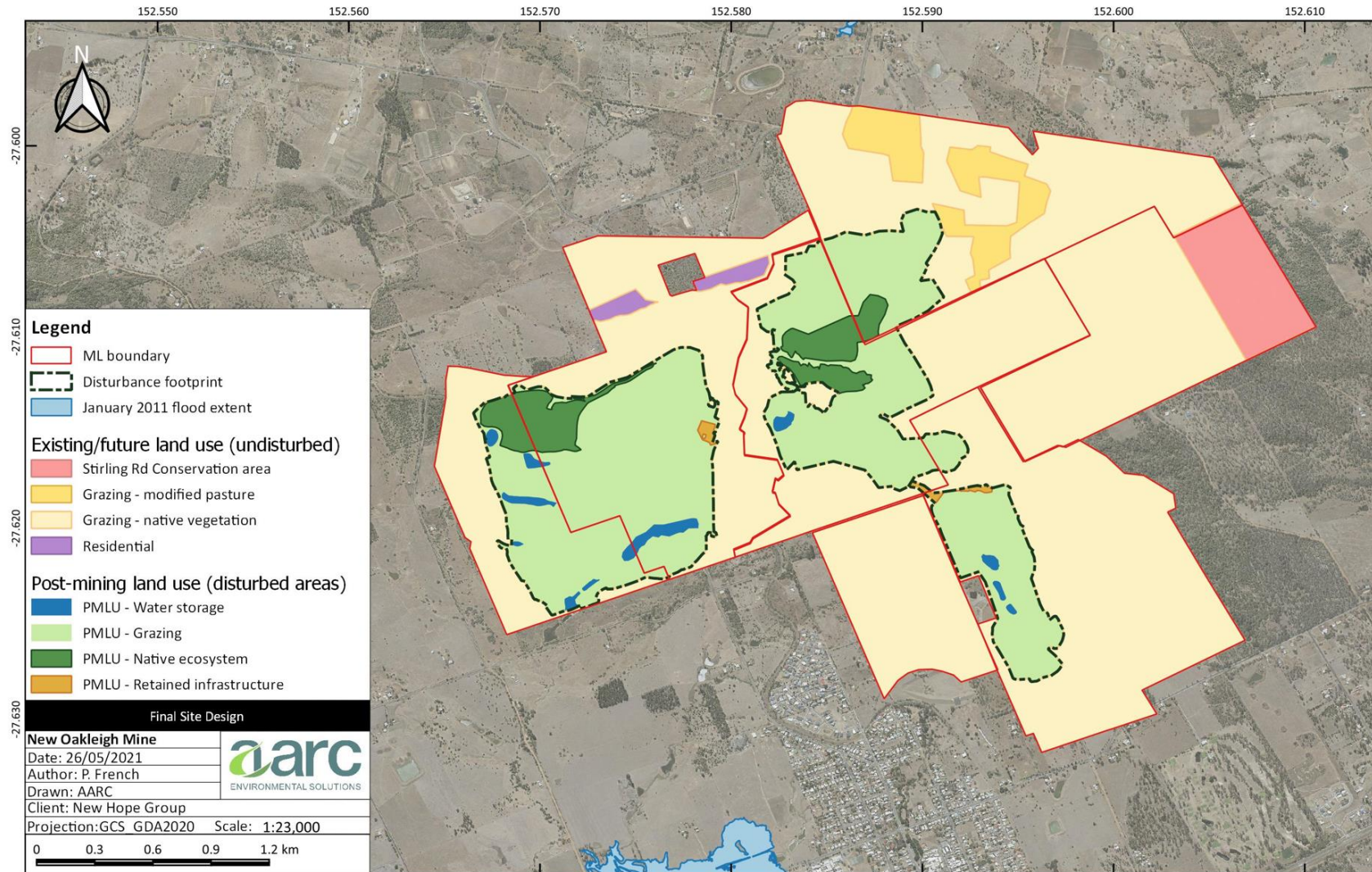
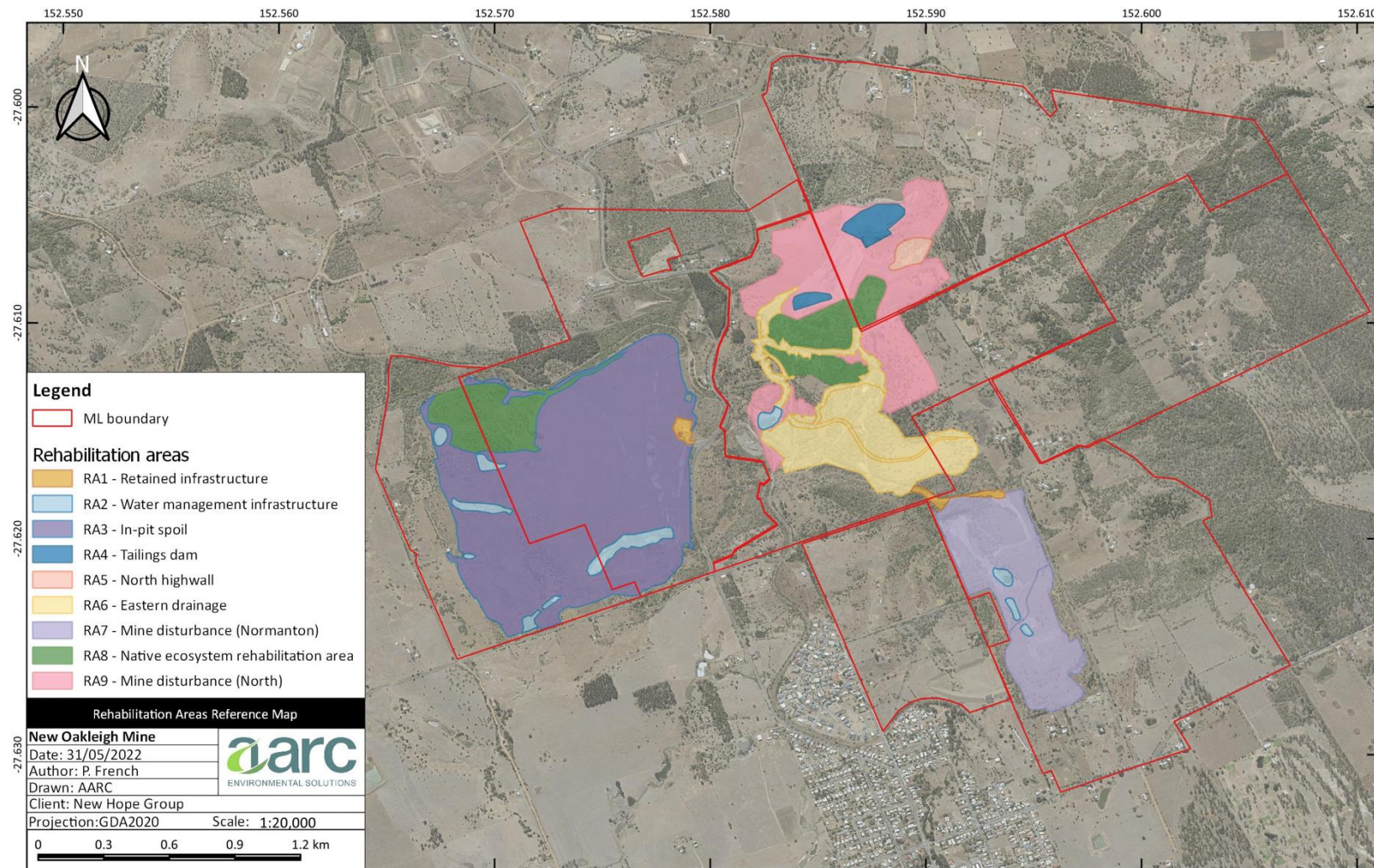


Figure 2. Reference map



Section C – Post mining land uses

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)		
Rehabilitation area	RA1	
Relevant activities	Retained infrastructure	
Total rehabilitation area size (ha)	2	
Commencement of first milestone: RM1.1	Commenced prior to PRCP implementation	
PMLU	Retained infrastructure	
Date area is available	Pre-2021	
Cumulative area available (ha)	2	
Milestone completed by	10/12/2026	10/12/2032
Milestone Reference	Cumulative area achieved (ha)	
RM1.1	2	
RM2.1		2
RM2.5		2
RM3.4		2
RM3.5		2

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)	
Rehabilitation area	RA2
Relevant activities	Water Management Structures
Total rehabilitation area size (ha)	7.8
Commencement of first milestone: RM2.1	Commenced prior to PRCP implementation
PMLU	Sediment and water supply dams
Date area is available	Pre-2021
Cumulative area available (ha)	7.8
Milestone completed by	10/12/2032
Milestone Reference	Cumulative area achieved (ha)
RM2.1	7.8
RM2.4	7.8
RM3.3	7.8
RM3.5	7.8

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)		
Rehabilitation area	RA3	
Relevant activities	In-pit Spoil	
Total rehabilitation area size (ha)	112.7	
Commencement of first milestone: RM1.3	Commenced prior to PRCP implementation	
PMLU	Grazing	
Date area is available	Pre-2021	
Cumulative area available (ha)	112.7	
Milestone completed by	10/12/2026	10/12/2032
Milestone Reference	Cumulative area achieved (ha)	
RM1.3	112.7	
RM2.1	112.7	
RM2.2	112.7	
RM3.1		112.7
RM3.5		112.7

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)		
Rehabilitation area	RA4	
Relevant activities	Tailings Dam	
Total rehabilitation area size (ha)	4.5	
Commencement of first milestone: RM1.3	Commenced prior to PRCP implementation	
PMLU	Grazing	
Date area is available	Pre-2021	
Cumulative area available (ha)	4.5	
Milestone completed by	10/12/2027	10/12/2036
Milestone Reference	Cumulative area achieved (ha)	
RM1.3	4.5	
RM2.1	4.5	
RM2.2	4.5	
RM3.1		4.5
RM3.5		4.5

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)		
Rehabilitation area	RA5	
Relevant activities	North Highwall	
Total rehabilitation area size (ha)	2	
Commencement of first milestone: RM1.3	Commenced prior to PRCP implementation	
PMLU	Grazing	
Date area is available	Pre-2021	
Cumulative area available (ha)	2	
Milestone completed by	10/12/2030	10/12/2035
Milestone Reference	Cumulative area achieved (ha)	
RM1.3	2	
RM2.1	2	
RM2.2	2	
RM3.1		2
RM3.5		2

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)			
Rehabilitation area	RA6		
Relevant activities	Eastern Drainage		
Total rehabilitation area size (ha)	35.4		
Commencement of first milestone: RM1.1	Commenced prior to PRCP implementation		
PMLU	Grazing		
Date area is available	Pre-2021		
Cumulative area available (ha)	35.4		
Milestone completed by	10/12/2027	10/12/2032	10/12/2036
Milestone Reference	Cumulative area achieved (ha)		
RM1.1	35.4		
RM1.2	35.4		
RM1.3	35.4		
RM2.1		35.4	
RM2.2		35.4	
RM3.1			35.4
RM3.5			35.4

(RA7) Rehabilitation area 7

Post-mining land uses (PMLU)		
Rehabilitation area	RA7	
Relevant activities	Normanton Mine Disturbance	
Total rehabilitation area size (ha)	36	
Commencement of first milestone: RM1.3	Commenced prior to PRCP implementation	
PMLU	Grazing	
Date area is available	Pre-2021	
Cumulative area available (ha)	36	
Milestone completed by	10/12/2027	10/12/2032
Milestone Reference	Cumulative area achieved (ha)	
RM1.3	36	
RM2.1	36	
RM2.2	36	
RM3.1		36
RM3.5		36

(RA8) Rehabilitation area 8

Post-mining land uses (PMLU)				
Rehabilitation area	RA8			
Relevant activities	Native Ecosystem Rehabilitation Area			
Total rehabilitation area size (ha)	30.2			
Commencement of first milestone: RM1.3	Commenced prior to implementation			
PMLU	Native ecosystem			
Date area is available	Pre-2021			
Cumulative area available (ha)	30.2			
Milestone completed by	10/12/2027	10/12/2030	10/12/2032	10/12/2057
Milestone Reference	Cumulative area achieved (ha)			
RM1.3	30.2			
RM2.1		15.1	30.2	
RM2.3		15.1	30.2	
RM3.2				30.2
RM3.5				30.2

(RA9) Rehabilitation area 9

Post-mining land uses (PMLU)		
Rehabilitation area	RA9	
Relevant activities	North Mine Disturbance	
Total rehabilitation area size (ha)	48.4	
Commencement of first milestone: RM1.3	Commenced prior to PRCP implementation	
PMLU	Grazing	
Date area is available	Pre-2021	
Cumulative area available (ha)	48	
Milestone completed by	10/12/2026	10/12/2032
Milestone Reference	Cumulative area achieved (ha)	
RM1.3	48	
RM2.1	48	
RM2.2	48	
RM3.1		48
RM3.5		48

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1.1	Rehabilitated – Infrastructure decommissioning and removal	1.1 a) All non-required services disconnected and removed; 1.1 b) All non-required concrete, bitumen and gravel removed; 1.1 c) All non-required operational pipelines drained and removed; 1.1 d) All fencing that is not part of PMLU requirements removed; 1.1 e) All non-required buildings including footings and concrete pads demolished and/or removed; 1.1 f) All machinery and equipment removed; 1.1 g) All non-retained surface water drainage infrastructure removed; 1.1 h) All rubbish removed; 1.1 i) Contaminated land assessment investigation undertaken by an appropriately qualified person¹ of RA1 indicates that no contamination unsuitable for the post-mining land use is occurring. If required, as site investigation report including a site suitability statement prepared and submitted in accordance with the provisions of Chapter 7, Part 8 of the EP Act; and 1.1 j) Contaminated material either remediated in-situ or removed/transported to an approved landfill for disposal and waste tracking information recorded and submitted.
RM1.2	Rehabilitated – Landform surface preparation	1.2 a) All bulk earthworks and landform works completed; 1.2 b) Topdressing material (topsoil or a suitable topsoil substitute) spread over reshaped surfaces to a minimum depth of 200 mm except where biosolids⁴ are applied as a substitute to a minimum depth 50 mm; 1.2 c) Ameliorants determined to be necessary to achieve the post-mining land use by an appropriately qualified person¹ have been applied and incorporated; and 1.2 d) Visible evidence of ripping/discing along the contour (not applicable to historical rehabilitation areas).
RM1.3	Rehabilitated – Revegetation (grazing and native ecosystems)	1.3 a) Seeding of pasture species completed in accordance with Table 3 (Species list for the rehabilitation and analogue sites) of Minesite rehabilitation report Oakleigh Mine (May 2008, Report Number 22223.27272) or suitable alternative species as recommended by an appropriately qualified person. 1.3 b) Seeding/planting of native species completed in accordance with Table 16 (Seed collection program detail) of Progressive Rehabilitation And Closure Plan New Oakleigh Mine (V11, 01 June 2022). 1.3 c) Rehabilitation monitoring data demonstrating successful revegetation through evidence of: i. planting success, whereby 60% of perennial planted specimens have survived; and 1.3 d) Fencing used to segregate native ecosystem and grazing rehabilitation areas to prevent and/or manage access by grazing cattle.

RM2.1	Stable – Landform development	2.1 a) 90% of the final landform achieves slope gradients of 30% or less; and 80% of the final landform achieves slope gradients of 20% or less; 2.1 b) landform construction of north highwall area (RA5) meets design criteria of slopes <40% with the exception of slopes in Area A (Figure 18 (General boundary and cross-sections assessed of the Northern Highwall area) of Progressive Rehabilitation and Closure Plan New Oakleigh Mine (V11, 01 June 2022)), which may exceed 40%; 2.1 c) constructed landform in the eastern drainage works area (RA6) meets design criteria of maximum slope gradient of 20%; 2.1 d) RA5 north highwall area vegetated and assessed by an appropriately qualified person¹ as stable with a minimum FOS of 1.5; and 2.1 e) RA4 Tailings Dams assessed by an appropriately qualified person¹ as stable.
RM2.2	Stable – Grazing PMLU	2.2 a) Vegetation groundcover exceeds the 70th percentile of reference sites; 2.2 b) No erosion classifications of 'Severe'² or 'Extreme'² and no active erosion present as demonstrated by no increase in erosion over time; 2.2 c) Monitoring of surface water run-off from rehabilitated landforms demonstrates water quality meets the following criteria: i. pH: 6.5-9.0; and ii. TDS: 4,000 mg/L. 2.2 d) In the event that legacy underground mining infrastructure is identified while undertaking rehabilitation works in this area, the infrastructure will be surveyed and sealed appropriately; and 2.2 e) Weed abundance for weeds classified as Category 3 restricted invasive plant species from the <i>Biosecurity Act 2014</i>, is <10% of total vegetative cover.
RM2.3	Stable – Native Ecosystem PMLU	2.3 a) Monitoring shows key species are present including: i. Crows ash (<i>Flindersia australis</i>); ii. Brigalow (<i>Acacia harpophylla</i>); and iii. Whitewood (<i>Atalaya salicifolia</i>). 2.3 b) ≥ 35% of Foliage Projective Cover (FPC) (T1 canopy cover) at analogue site(s); 2.3 c) landform construction achieves suitable slope gradients of 30% or less; 2.3 d) no erosion classifications of 'Severe'² or 'Extreme'² and no active erosion present as demonstrated by no increase in erosion over time; and 2.3 e) Weed abundance for weeds classified as Category 3 restricted invasive plant species from the <i>Biosecurity Act 2014</i>, is <10% of total vegetative cover.

RM2.4	Stable – Water storage PMLU	2.4 a) Surface water quality parameters (see section 3.2 of Appendix G. Monitoring and Maintenance Plan of Progressive Rehabilitation And Closure Plan New Oakleigh Mine (V11, 01 June 2022)) to be below the 'low risk' trigger values for livestock drinking water defined in Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG 2018) at all water storage monitoring points (Figure 27 (Water quality monitoring sites) of Progressive Rehabilitation And Closure Plan New Oakleigh Mine (V11, 01 June 2022)).
RM2.5	Stable – Retained Infrastructure PMLU	2.5 a) No erosion classifications of 'Severe' ² or 'Extreme' ² and no active erosion present as demonstrated by no increase in erosion over time; and 2.5 b) Landform construction achieves slope gradients of ≤20% except for slopes constructed in excess of 33% to achieve synergy with surrounding topography.
RM3.1	Achievement of target PMLU – Grazing PMLU	3.1 a) Provide a final rehabilitation report including monitoring records; 3.1 b) Assessment of carrying capacity by an appropriately qualified person ¹ demonstrates a sustainable grazing outcome has been achieved; 3.1 c) 60% of groundcover vegetation comprises recognised perennial pasture species; 3.1 d) In the event of suspected subsidence, either LiDAR or ground survey to confirm settlement levels < 10mm/annum; 3.1 e) Erosion classification ² to be comparable with erosion classifications from nearby equivalent land uses with similar landform parameters to be determined by establishing analogue sites at suitable comparable sites; and 3.1 f) No erosion classifications of 'Severe' ² or 'Extreme' ² and no active erosion present as demonstrated by no increase in erosion over time.

RM3.2	Achievement of target PMLU – Native Ecosystem PMLU	3.2 a) Key species present including: I. Crows ash (<i>Flindersia australis</i>); II. Brigalow (<i>Acacia harpophylla</i>); and III. Whitewood (<i>Atalaya salicifolia</i>). 3.2 b) $\geq 50\%$ of number of native flora species/ha as present at analogue sites and relative abundance⁵ of species present is comparable to analogue sites; 3.2 c) $\geq 70\%$ of the T1 canopy height at analogue site(s); 3.2 d) $\geq 50\%$ of FPC (T1 canopy cover) at analogue site(s); 3.2 f) erosion classification² to be comparable with erosion classifications from nearby equivalent land uses with similar landform parameters to be determined by establishing analogue sites at suitable comparable sites; and 3.2 g) no erosion classifications of 'Severe'² or 'Extreme'² and no active erosion present as demonstrated by no increase in erosion over time. 3.2 h) Evidence of fauna habitat features including substitute habitat (e.g. tree hollows, fallen timber, rock piles).
RM3.3	Achievement of target PMLU - Water storage PMLU	3.3 a) No regulated structures to be retained; 3.3 b) all retained water storages (banks and spillways) to be certified as achieving stable and functioning by an appropriately qualified person¹; 3.3 c) Surface water quality parameters (see section 3.2 of Appendix G. Monitoring and Maintenance Plan of Progressive Rehabilitation And Closure Plan New Oakleigh Mine (V11, 01 June 2022)) to be below the 'low risk' trigger values for livestock drinking water defined in Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG 2018) at all water storage monitoring points (Figure 27 (Water quality monitoring sites) of Progressive Rehabilitation And Closure Plan New Oakleigh Mine (V11, 01 June 2022)).
RM3.4	Achievement of target PMLU – Retained infrastructure PMLU	3.4 a) Final landform survey by an appropriately qualified person¹ confirms no built structures remain other than those that form part of a landholder agreement; 3.4 b) Where required or applicable, contamination has been remediated or removed; 3.4 c) No erosion classifications of 'Severe'² or 'Extreme'² and no active erosion present as demonstrated by no increase in erosion over time; and 3.4 d) landform construction typically achieves slope gradients of $\leq 20\%$, except for slopes constructed in excess of 33% to achieve synergy with surrounding natural topography.

RM3.5	Achievement of target PMLU – all PMLUs	3.5 a) Hazard and Safety Assessment completed by an appropriately qualified person¹ demonstrates hazards in rehabilitation areas are consistent with the type and severity of hazards typical of neighbouring equivalent unmined land use and remaining hazards are low risk with no significant increase in risk expected over time. 3.5 b) Certification from appropriately qualified person¹ that the area has achieved stable condition. 3.5 c) Surface water quality parameters (see section 3.2 of Appendix G. Monitoring and Maintenance Plan of Progressive Rehabilitation And Closure Plan New Oakleigh Mine (V11, 01 June 2022)) measured at downstream monitoring points are not statistically significantly different ($p>0.05$) to the corresponding upstream reference points. Monitoring points are shown below in table in footnote 6 and alternative monitoring points may be nominated with the agreement of the administering authority.
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1. *Appropriately qualified person* 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.

2. Erosion classification framework:

Erosion classification	Minor	Moderate	Severe	Extreme
No. of rills/gully	< 15	15-30	31-50	> 50
Average depth (cm)	< 10	10-30	30-60	> 60
Proportion of site affected by disturbance (%) ¹	< 1	1-5	> 5	—

Source: after Neldner, V.J., Wilson, B.A., Dillewaard, H.A., Ryan, T.S., Butler, D.W., McDonald, W.J.F, Addicott, E.P. and Appelman, C.N. 2020, *Methodology for survey and mapping of regional ecosystems and vegetation communities in Queensland*. Version 5.1. Updated March 2020. Queensland Herbarium, Queensland Department of Environment and Science, Brisbane.

3. Land in a stable condition as defined in section 111A of the *Environmental Protection Act 1994*:

111A Meaning of stable condition

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.

4. Application and use of biosolids must be undertaken in accordance with 'End of Waste Code Biosolids (ENEW07359617) Waste Reduction and Recycling Act 2011' (ESR/2018/4548, 01 JAN 2020 or latest version).

5. Relative abundance is the percent composition of an organism of a particular species relative to the total number of organisms in the area.

6. Reference monitoring points for milestone criteria 3.5 (c):

Identification	Latitude (GDA2020)	Longitude (GDA2020)	Catchment	Reference monitoring program
Oakleigh West US1	-27.62292	152.56707	Western Creek	Upstream
Oakleigh West US2	-27.62742	152.56393	Western Creek	Upstream
Oakleigh West DS1	-27.62962	152.57047	Western Creek	Downstream
Normanton US3	-27.61991	152.59540	Western Creek	Upstream
Normanton DS2	-27.62964	152.59157	Western Creek	Downstream
Oakleigh East US4	-27.59452	152.58044	Black Snake Creek	Upstream
Oakleigh East DS3	-27.59216	152.58731	Black Snake Creek	Downstream

END OF PRCP SCHEDULE