Progressive Rehabilitation and Closure Plan Schedule template

Instructions

General Instructions:

- **This form can be used for completing a PRCP schedule for the submission of a progressive rehabilitation and closure plan (PRC plan).**
- **See the PRCP schedule section of the PRC plan guideline (ESR/2019/4964) for further information requirements.**

- A default value of one (1) Rehabilitation Area (RA) is represented by one RA sheets below (RA1).
- A default value of one (1) Improvement Area (IA) is represented by one IA sheet below (IA1).

- To record additional RAs for your project make a copy of the RA sheet below and update it to the relevant RA number (i.e. RA2).
- To record additional IAs for your project make a copy of the IA sheet below and update it to the relevant IA number (i.e. IA2).
- To remove the IA sheet if there is no IA for your project, delete the IA sheet below.

- Each RA and IA sheet contains **two separate excel tables** (yellow and blue) for recording the time-based rehabilitation milestones.
- Add a new column or row to each table as required for your information requirements.

- Two (2) separate sheets below exist for recording the "Rehabilitation Area Milestones" and "Improvement Area Milestones".
- Delete the Improvement Area Milestone sheet if it does not apply to your project.
- Delete additional rows in either sheet if they do not apply to your project.
- See the PRC plan guideline for a list of reference milestones and further information for developing additional site-specific milestones where appropriate.

Further Instructions when inputting PMLUs

Headings under Rehabilitation Area (RA) sheets

Rehabilitation area - The rehabilitation area must align with the spatial information included in the rehabilitation planning part of the PRC plan. This area must have the same PMLU and same milestones applied to the whole area.

Relevant activities - The relevant activities must align with the activities identified in the rehabilitation planning part of the PRC plan. The relevant activities are those undertaken within the rehabilitation area prior to land becoming available for rehabilitation.

Total size of rehabilitation area (ha) - Total size of rehabilitation area in hectares.

Commencement of first milestone - The applicant must nominate a date for when the first milestone for the rehabilitation area will commence. The milestone reference for the first milestone must be included in the heading.

PMLU - The PMLU must align with those identified in the rehabilitation planning part of the PRC plan and in the proposed final site design.

Date area is available - The PRCP schedule must identify when land within the rehabilitation area becomes available for rehabilitation. If the whole rehabilitation area becomes available at once there should be only one date. If the rehabilitation areas becomes available progressively there should be multiple dates. These dates should reflect the information provided in the rehabilitation planning part of the PRC plan.

Cumulative area available (ha) - The PRCP schedule must identify the area of land within the rehabilitation area that will become available at a given time.

Milestone completed by - The PRCP schedule must identify completion dates for milestones to be completed.

Cumulative area achieved (ha) - The PRCP schedule must show how progressive rehabilitation is being achieved over the life of the mine. This section must reflect the proposed rehabilitation work required for the rehabilitation area to achieve stable condition. The milestone reference to be included refers back to the Rehabilitation Area Milestones sheet with the detailed milestone criteria. The milestones must be achieved consecutively.

Headings under Rehabilitation Area Milestones sheet

Rehabilitation milestone & Milestone criteria - The "rehabilitation milestone" is a short description of the rehabilitation activities. The "milestone criteria" must be able to demonstrate achievement of the milestone.

Further Instructions when inputting NUMAs

Headings under Improvement Area (IA) sheets

Improvement area - The improvement area must align with the spatial information included in the rehabilitation planning part of the PRC plan. This area must have the same NUMA and same milestones applied to the whole area.

Relevant activities - The relevant activities must align with the activities identified in the rehabilitation planning part of the PRC plan. The relevant activities are those undertaken within the improvement area prior to land becoming available for improvement.

Total size (ha) - Total size of improvement area in hectares.

Commencement of first milestone - The applicant must nominate a date for when the first milestone for the improvement area will commence. The milestone reference for the first milestone must be included in the heading.

NUMA - The NUMA must align with those identified in the rehabilitation planning part of the PRC plan and in the proposed final site design.

Date area is available - The PRCP schedule must identify when land within the improvement area becomes available for improvement. If the whole improvement area becomes available at once there should be only one date. If the improvement areas becomes available progressively there should be multiple dates. These dates should reflect the information provided in the rehabilitation planning part of the PRC plan.

Cumulative area available (ha) - The PRCP schedule must identify the area of land within the improvement area that will become available at a given time.

Milestone completed by - The PRCP schedule must identify completion dates for milestones to be completed.

Cumulative area achieved (ha) - The PRCP schedule must show how progressive improvement is being achieved over the life of the mine. This section must reflect the proposed management work required for the improvement area to achieve sufficient improvement. The milestone reference refers back to the Improvement Area Milestones sheet with the detailed milestone criteria. The milestones must be achieved consecutively.

Post-mining land uses (PMLU)										
Rehabilitation area	RA1									
Relevant activities	Ex-Pit Waste Rock Dump									
Total rehabilitation area size (ha)	191.7 ha									
Commencement of first milestone: RM1	1-Aug-26									
PMLU	PMLU A: Low Intensity Cattle Grazing									
Date area is available	31/07/26	31/07/27		31/07/30						
Cumulative area available (ha)	73.6	147.1		191.7						
Milestone completed by	10/12/26	10/12/27	10/12/28	10/12/30	10/12/31	10/12/37	10/12/38	10/12/41		
Milestone Reference	**Cumulative area achieved (ha)**									
RM3	73.6	147.1	147.1	191.7	191.7					
RM4		73.6	147.1	147.1	191.7					
RM5		73.6	147.1	147.1	191.7					
RM6						73.6	147.1	191.7		
RM7						73.6	147.1	191.7		
RM8						73.6	147.1	191.7		

1) Insert new columns to the yellow table to include further rehabilitation milestone dates.
2) Insert new columns to the blue table to match rehabilitation milestone dates.
3) Insert new rows to the blue table to include additional rehabilitation milestone references.
4) Insert the relevant number in the "Milestone reference" column (i.e. RM1).

Post-mining land uses (PMLU)														
Rehabilitation area	RA2													
Relevant activities	Open Cut Mining Pit; In-pit Waste Rock Dump													
Total rehabilitation area size (ha)	405.3 ha													
Commencement of first milestone: RM2	1-Aug-25													
PMLU	PMLU B: Low-intensity cattle grazing with habitat for threatened fauna													
Date area is available	31/07/25	31/07/26		31/07/28	31/07/29	31/07/30	31/07/31							
Cumulative area available (ha)	35.7	105		199.9	243.7	318	405.3							
Milestone completed by	10/12/25	10/12/26	10/12/27	10/12/28	10/12/29	10/12/30	10/12/31	10/12/32	10/12/36	10/12/37	10/12/39	10/12/40	10/12/41	10/12/42
Milestone Reference	**Cumulative area achieved (ha)**													
RM2	35.7	105	105	199.9	243.7	318	405.3	405.3						
RM3	35.7	105	105	199.9	243.7	318	405.3	405.3						
RM4		35.7	105	105	199.9	243.7	318	405.3						
RM5		35.7	105	105	199.9	243.7	318	405.3						
RM6									35.7	105	199.9	243.7	318	405.3
RM7									35.7	105	199.9	243.7	318	405.3
RM8									35.7	105	199.9	243.7	318	405.3

1) Insert new columns to the yellow table to include further rehabilitation milestone dates.
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Post-mining land uses (PMLU)										
Rehabilitation area				RA3						
Relevant activities				ces, soil stockpiles, run-of-mine pad, train load-out, rail loop, CHPP, MIAHaul roads, internal tracks, offices, soil stockpiles, run-of-mine pad, trai						
Total rehabilitation area size (ha)				697.1						
Commencement of first milestone: RM1				1-Aug-32						
PMLU				PMLU B: low intensity cattle grazing with habitat for threatened fauna						
Date area is available	31/07/32	31/07/33	31/07/34	31/07/35						
Cumulative area available (ha)	174.3	348.6	522.9	697.1						
Milestone completed by	10/12/32	10/12/33	10/12/34	10/12/35	10/12/36	10/12/43	10/12/44	10/12/45	10/12/46	
Milestone Reference	**Cumulative area achieved (ha)**									
RM1	174.3	348.6	522.9	697.1	697.1					
RM2	174.3	348.6	522.9	697.1	697.1					
RM3	174.3	348.6	522.9	697.1	697.1					
RM4		174.3	348.6	522.9	697.1					
RM5		174.3	348.6	522.9	697.1					
RM6						174.3	348.6	522.9	697.1	
RM7						174.3	348.6	522.9	697.1	
RM8						174.3	348.6	522.9	697.1	

1) Insert new columns to the yellow table to include further rehabilitation milestone dates.
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3) Insert new rows to the blue table to include additional rehabilitation milestone references.
4) Insert the relevant number in the "Milestone reference" column (i.e. RM1).

Post-mining land uses (PMLU)										
Rehabilitation area	RA4									
Relevant activities	Dam, sediment control drains and flood protection infrastructure									
Total rehabilitation area size (ha)	25.9 ha									
Commencement of first milestone: RM1	1-Aug-32									
PMLU	PMLU B: Low intensity cattle grazing with habitat for threatened fauna									
Date area is available	31/07/32									
Cumulative area available (ha)	25.9									
Milestone completed by	10/12/32	10/12/33	10/12/43							
Milestone Reference	**Cumulative area achieved (ha)**									
RM2	25.9									
RM3	25.9									
RM4		25.9								
RM5		25.9								
RM6			25.9							
RM7			25.9							
RM8			25.9							

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Post-mining land uses (PMLU)										
Rehabilitation area	RA5									
Relevant activities	Saraji Road									
Total rehabilitation area size (ha)	55.2 ha									
Commencement of first milestone: RM9	1-Aug-33									
PMLU	PMLU D: Saraji Road									
Date area is available	31/07/33									
Cumulative area available (ha)	55.2									
Milestone completed by	10/12/33									
Milestone Reference	**Cumulative area achieved (ha)**									
RM9	55.2									

1) Insert new columns to the yellow table to include further rehabilitation milestone dates.
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3) Insert new rows to the blue table to include additional rehabilitation milestone references.
4) Insert the relevant number in the "Milestone reference" column (i.e. RM1).

Post-mining land uses (PMLU)										
Rehabilitation area	RA6									
Relevant activities	Highwall Mining Area- ex-pit WRDs, dam, highwall bench									
Total rehabilitation area size (ha)	321.1									
Commencement of first milestone: RM1	1-Aug-25									
PMLU	PMLU C: Native ecosystems									
Date area is available	31/07/25									
Cumulative area available (ha)	321.1									
Milestone completed by	10/12/25	10/12/26	10/12/36							
Milestone Reference	**Cumulative area achieved (ha)**									
RM2	321.1									
RM3	321.1									
RM4		321.1								
RM5		321.1								
RM7			321.1							
RM8			321.1							

1) Insert new columns to the yellow table to include further rehabilitation milestone dates.
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Post-mining land uses (PMLU)										
Rehabilitation area	RA7									
Relevant activities	Highwall Mining Area- magazine and haul road									
Total rehabilitation area size (ha)	31.1 ha									
Commencement of first milestone: RM1	1-Aug-32									
PMLU	PMLU C: Native ecosystems									
Date area is available	31/07/32									
Cumulative area available (ha)	31.1									
Milestone completed by	10/12/32	10/12/34	10/12/44							
Milestone Reference	**Cumulative area achieved (ha)**									
RM1	31.1									
RM2	31.1									
RM3	31.1									
RM4		31.1								
RM5		31.1								
RM7			31.1							
RM8			31.1							

1) Insert new columns to the yellow table to include further rehabilitation milestone dates.
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3) Insert new rows to the blue table to include additional rehabilitation milestone references.
4) Insert the relevant number in the "Milestone reference" column (i.e. RM1).

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal.	All services disconnected; All road materials (bitumen, gravel) removed; All pipelines drained and removed; All fencing that is not part of the PMLU removed; All buildings demolished and removed; All machinery and equipment removed; All surface water drainage infrastructure that is not required in the PMLU is removed; All rubbish removed; and All waste is to be transported, disposed of and handled in accordance with relevant waste legislature.
RM2	Remediation of contaminated land.	All contamination is remediated or removed from site; Any contamination removed from site has been removed in accordance with relevant regulations; and A contaminated land investigation document has been prepared by an approved auditor, containing a site suitability statement that states that land is not contaminated and is suitable for any use.
RM3	Landform development and reshaping/reprofiling.	All earthworks except topsoil handling and placement are complete; Subsoil is to be applied and spread to RA2 (in-pit dumps); All erosion and sediment control systems are to be installed; The final landform surveyed is to be constructed as per the design plan; Batters are to have a maximum slope of 15%; All rehabilitation and associated works are to have 'as-constructed' plans prepared; and The back-filled pit is to be certified as geotechnically stable by a suitably qualified person.
RM4	Surface preparation.	Any erosion or subsidence that occurs after the achievement of RM3 has been remediated prior to topsoil application; 250 mm of topsoil is to be placed over all surfaces; Slopes greater than 10% are to have a rock mulch cover of at least 30%; No areas are to have a rock mulch cover exceeding 50%, to facilitate the safe movement of cattle and production of pasture; An assessment of soil health and suitability has been completed by an appropriately qualified person to confirm soil is suitable for target vegetation establishment; Any fertilisers/ameliorants recommended as a result of the soil assessment are to have been applied at the rate recommended by the appropriately qualified person; and Contour ripping and/or ploughing (depth 0.4m -0.5m) has been undertaken after topsoil placement.
RM5	Revegetation.	Completed seeding at a rate of 40.7 kg/ha; Any species not establishing after seeding (as identified 12 months after seeding) have been planted as tubestock in RA2, RA3 and RA4 at a density of 20-100 seedlings/ha; and Supplementary seeding and tubestock planting completed within one year of sites failing to achieve vegetation establishment on initial attempts.
RM6	Land is suitable for the commencement of grazing.	Rehabilitated areas have a pasture biomass that is not >10% less than pasture biomass on unmined areas within the same soil management unit measured at the same time, as measured under both wet and dry conditions; All corrective actions recommended by suitably qualified persons in response to erosion or deficient vegetation cover have been implemented; Rehabilitated areas are to have a land suitability class for cattle grazing of 4 or lower; No active rill or gully erosion deeper than 15 cm present; Trees are, on average, at least 4 m tall; Water sources have been installed; and Stock fencing installation is complete.
RM7	Establishment of target vegetation type.	Rehabilitated areas are to have a mean NDVI between 0.1240 and 0.1778 AND/OR Squatter Pigeons are observed within rehabilitated areas; The species richness of grasses within 10 m ´ 50 m plots in rehabilitated areas is to equal or exceed the 10th percentile among equivalent plots in reference sites on the same soil management unit; Rehabilitated areas are to have ≤0.2% cover of Parthenium hysterophorus AND rehabilitated areas are to have ≤0.1% cover of Harrisia martinii AND any other weeds listed under the Biosecurity Act are to be present in densities of <1 individual per hectare; Eucalyptus crebra and/or Eucalyptus populnea are to constitute 21% of the total basal area of woody vegetation on sand plains; Eucalyptus camaldulensis is to constitute 33% of the total basal area of woody vegetation along Hughes Creek, Barretts Creek, and drainage line 2, 3, 4 and 7; Rehabilitated areas where the ground is level and soil management unit "Orange" has been used as topsoil are to have a minimum basal area of 0.5 m2/ha stems of Casuarina cristata per ha. Rehabilitated areas on the Zambezi soil management unit are to contain Eucalyptus camaldulensis and at least one other species of Corymbia or Eucalyptus. Density of woody vegetation within rehabilitated areas is to be sufficient for Squatter Pigeons Availability of food for the Glossy Black-cockatoo is restored to pre-mining levels
RM8	Achievement of post-mining land use to stable condition.	All corrective actions recommended by suitably qualified persons in response to erosion or deficient vegetation cover have been implemented; A suitably qualified person has certified that the final landform is geotechnically stable; The land suitability class of rehabilitated land is to be 4 or lower for cattle grazing; Rehabilitated areas have a pasture biomass that is not >10% less than pasture biomass on unmined areas with the same soil management unit measured at the same time, as measured under both wet and dry conditions; Eucalyptus crebra and/or Eucalyptus populnea are to constitute 21% of the total basal area of woody vegetation on sand plains. Eucalyptus camaldulensis is to constitute 33% of the total basal area of woody vegetation along Hughes Creek, Barretts Creek, and drainage line 2, 3, 4 and 7. Landscape function analysis scores for soil stability, infiltration/runoff and nutrient cycling have started to plateau, and the plateau values predicted from sigmoidal curves fitted to the data are equivalent to or exceed values at analogue sites; Erosion monitoring has been completed; No active rill or gully erosion deeper than 25 cm present; Grazed land maintains a percentage ground cover of between 50% and 96% on slopes up to 10% and between 70% and 96% on slopes between 10-15%; Rehabilitated areas are to have ≤0.2% cover of Parthenium hysterophorus AND rehabilitated areas are to have ≤0.1% cover of Harrisia martinii Any other weeds listed under the Biosecurity Act are present in densities of <1 individual per hectare; Surface water in downstream monitoring locations remains within site-specific water quality monitoring limits detailed in Appendix A – Surface Water Assessment: Interim contaminant trigger investigation levels; Groundwater in downstream monitoring locations remains within site-specific water quality monitoring limits detailed in Appendix B – Groundwater Assessment : Water Quality Objectives; At least 50% of established species show natural recruitment; and Sites fulfil all other milestone criteria after having experienced at least one "drought" year (defined as having a total rainfall over a 12-month period that falls within the lowest decile recorded at the nearest weather station, Moranbah Airport). Density of woody vegetation within rehabilitated areas is to be sufficient for Squatter Pigeons Availability of food for the Glossy Black-cockatoo is restored to pre-mining levels
RM9	Fulfilment of all requirements of the agreement with Isaac Regional Council for the construction and commissioning of Saraji Road.	Isaac Regional Council (IRC) has notified Vitrinite that the new road alignment is accepted "off maintenance", in accordance with processes prescribed by a signed compensation agreement between Vitrinite and IRC.

1) Insert new rows below the table to record more Rehabilitation Area Milestones for the project
2) Ensure all Rehabiitation Milestones recorded in this table align with those included in the RA sheets in this form.
3) See the PRCP guideline before developing site-specific Rehabilitation Area Milestones