Progressive Rehabilitation and Closure Plan Schedule template

Instructions

General Instructions:

- mission of a progressive rehabilitation and closure plan (PRC plan). This form can be used for completing a PRCP schedule for the s 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 re 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 milesto

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.

ESR/2019/5103 • Version 1.00 • Effective: 01 November 2019

Department of Environment and Science

				Post-minin	g land uses	(PMLU)					
Rehabilitation area	1				RA1						
Relevant activities					Creek Diversion						
Total rehabilitation	area size (ha)			143 ha							
Commencement of	first milestone	:: RM1			10/12/XXXX* + year**						
PMLU					Low intensity cattle grazing (native riparian vegetation)						
Date area is available	ailable Year 2 Year 7										
Cumulative area available (ha)	35	143									
Milestone completed by	Year 7	Year 10	Year 15	Year 20	Year 21						
Milestone Reference					Cumulative are	a achieved (ha)					
RM1	35	143									
RM3	35	143									
RM5	35	143									
RM7	35	35	143								
RM9			35	143							
RM11				35	143						

** the year refers to the year at which the land will become available after commencement of the Project and will be added to the commencement year to define the date at which land is available for rehabilitation

1) Insert new columns to the <u>yellow table</u> to include further rehabilitation milestone dates.

2) Insert new columns to the <u>blue table</u> to match rehabilitation milestone dates.

3) Insert new rows to the <u>blue table</u> to include additional rehabilitation milestone references.

				Post-minin	g land uses	(PMLU)					
Rehabilitation area	1						RA2a				
Relevant activities				Water Management Infrastructure (Environmental, Sediment, Raw water dams)							
Total rehabilitation	n area size (ha)			46 ha							
Commencement of	f first milestone	e: RM1				10/	′12/XXXX* + yea	ar**			
PMLU					Low intensity cattle grazing						
Date area is available	Year 10	Year 15	Year 20	Year 25	Year 30						
Cumulative area available (ha)	2.3				46						
Milestone completed by	Year 15	Year 20	Year 25	Year 30	Year 35	Year 40	Year 45				
Milestone Reference					Cumulative are	a achieved (ha))				
RM1	2.3				46						
RM2	2.3				46						
RM3	2.3				46						
RM6		2.3				46					
RM8		2.3					46				
RM10			2.3				46				

** the year refers to the year at which the land will become available after commencement of the Project and will be added to the commencement year to define the date at which land is available for rehabilitation

1) Insert new columns to the <u>yellow table</u> to include further rehabilitation milestone dates.

2) Insert new columns to the <u>blue table</u> to match rehabilitation milestone dates.

3) Insert new rows to the <u>blue table</u> to include additional rehabilitation milestone references.

				Post-minin	g land uses	(PMLU)					
Rehabilitation area					RA2b						
Relevant activities					Water Management Infrastructure (Flood Levee)						
Total rehabilitation	n area size (ha)				7 ha						
Commencement of	f first milestone	e: RM1				10/	′12/XXXX* + yea	ar**			
PMLU						Low intensity c	attle grazing (m	odified pasture)		
Date area is available	ilable Year 7 Year 10 Year 15			Year 20							
Cumulative area available (ha)	0.2			7							
Milestone completed by	Year 10	Year 15	Year 20	Year 25	Year 30	Year 35					
Milestone Reference					Cumulative are	a achieved (ha)				
RM1	0.2			7							
RM3	0.2			7							
RM5	0.2			7							
RM6		0.2		7							
RM8			0.2		7						
RM10				0.2		7					

** the year refers to the year at which the land will become available after commencement of the Project and will be added to the commencement year to define the date at which land is available for rehabilitation

1) Insert new columns to the <u>yellow table</u> to include further rehabilitation milestone dates.

2) Insert new columns to the <u>blue table</u> to match rehabilitation milestone dates.

3) Insert new rows to the <u>blue table</u> to include additional rehabilitation milestone references.

				Post-minin	g land uses	(PMLU)					
Rehabilitation area	1						RA3				
Relevant activities				Mine Infrastructure Areas							
Total rehabilitation	area size (ha)			132 ha							
Commencement of	first milestone	:: RM1			10/12/XXXX* + year**						
PMLU					Low intensity cattle grazing (modified pasture)						
Date area is available	Year 32	Year 35	Year 40	Year 45	Year 52						
Cumulative area available (ha)	75 ha				132						
Milestone completed by	Year 35	Year 40	Year 45	Year 52	Year 55	Year 60	Year 65	Year 70			
Milestone Reference					Cumulative are	a achieved (ha))				
RM1	75				125						
RM2	75				125						
RM3	75				125						
RM5		75				125					
RM6		75				125					
RM8			75				125				
RM10				75				125			

** the year refers to the year at which the land will become available after commencement of the Project and will be added to the commencement year to define the date at which land is available for rehabilitation

1) Insert new columns to the <u>yellow table</u> to include further rehabilitation milestone dates.

2) Insert new columns to the <u>blue table</u> to match rehabilitation milestone dates.

3) Insert new rows to the <u>blue table</u> to include additional rehabilitation milestone references.

				Post-minin	ng land uses	(PMLU)					
Rehabilitation area	1						RA4				
Relevant activities				Waste Disposal (Surface and in-pit TSFs)							
Total rehabilitation	n area size (ha)			416 ha							
Commencement of RM1	f first milestone	:			10/12/XXXX* + year**						
PMLU					Low intensity cattle grazing (modified pasture)						
Date area is available	Year 11	Year 15	Year 20	Year 25	Year 30	Year 36					
Cumulative area available (ha)	145	272				416					
Milestone completed by	Year 15	Year 20	Year 25	Year 30	Year 36	Year 40	Year 45	Year 50	Year 55		
Milestone Reference					Cumulative are	a achieved (ha)				
RM1	145	272				416					
RM2	145	272				416					
RM3	145	272				416					
RM4		272				416					
RM5		272					416				
RM6		145	272				416				
RM8			145	272				416			
RM10				145	272				416		

** the year refers to the year at which the land will become available after commencement of the Project and will be added to the commencement year to define the date at which land is available for rehabilitation

1) Insert new columns to the <u>yellow table</u> to include further rehabilitation milestone dates.

2) Insert new columns to the <u>blue table</u> to match rehabilitation milestone dates.

3) Insert new rows to the <u>blue table</u> to include additional rehabilitation milestone references.

				Post-minin	g land uses	(PMLU)					
Rehabilitation area	1						RA5				
Relevant activities				In-pit and out-of-pit spoil dumps							
Total rehabilitation	n area size (ha)			1925 ha							
Commencement of RM1	f first milestone	:		10/12/XXXX* + year**							
PMLU						Low intensity ca	attle grazing (m	odified pasture)		
Date area is available	Year 5	Year 10	Year 15	Year 20	Year 25	Year 30	Year 32				
Cumulative area available (ha)	33		275	486	736	1131	1925				
Milestone completed by	Year 10	Year 15	Year 20	Year 25	Year 30	Year 32	Year 40	Year 45	Year 52		
Milestone Reference					Cumulative are	a achieved (ha))				
RM1	33		275	486	736	1131	1925				
RM2	33		275	486	736	1131	1925				
RM3	33		275	486	736	1131	1925				
RM5	33		275	486	736		1925				
RM6		33		275	486	736	1925				
RM8			33		275	486	736	1925			
RM10				33		275	486	736	1925		

** the year refers to the year at which the land will become available after commencement of the Project and will be added to the commencement year to define the date at which land is available for rehabilitation

1) Insert new columns to the <u>yellow table</u> to include further rehabilitation milestone dates.

2) Insert new columns to the <u>blue table</u> to match rehabilitation milestone dates.

3) Insert new rows to the <u>blue table</u> to include additional rehabilitation milestone references.

				Post-minii	ng land uses	(PMLU)					
Rehabilitation area	I			RA6							
Relevant activities						Rail a	and services co	rridor			
Total rehabilitation	tal rehabilitation area size (ha)						28 ha				
Commencement of	first milestone	: RM1			10/12/XXXX* + year**						
PMLU				Low intensity cattle grazing (modified pasture)							
Date area is available	Voar 22										
Cumulative area available (ha)	27										
Milestone completed by	Year 35										
Milestone Reference				Cumulative area achieved (ha)							
RM1	1 27										
RM2	27										
RM12	27										

** the year refers to the year at which the land will become available after commencement of the Project and will be added to the commencement year to define the date at which land is available for rehabilitation

1) Insert new columns to the <u>yellow table</u> to include further rehabilitation milestone dates.

2) Insert new columns to the <u>blue table</u> to match rehabilitation milestone dates.

3) Insert new rows to the <u>blue table</u> to include additional rehabilitation milestone references.

			N	on-use man	agement are	ea (NUMA)					
Improvement area				IA1							
Relevant activities				Residual voids							
Total size (ha)				218 ha							
Commencement of MM1				10/12/XXXX* + year**							
NUMA				Unsuitable							
Date area is available	Vorr 22										
Cumulative area available (ha)	218										
Milestone completed by	Year 35										
Milestone Reference					Cumulative area achieved (ha)						
MM1	218										
MM2	218										
MM3	218										

** the year refers to the year at which the land will become available after commencement of the Project and will be added to the commencement year to define the date at which land is available for rehabilitation

1) Insert new columns to the <u>yellow table</u> to include further management milestone dates.

2) Insert new columns to the <u>blue table</u> to match management milestone dates.

3) Insert new rows to the blue table to include additional management milestone references.

Milestone reference RM1	Rehabilitation milestone Infrastructure decommissioning and removal	Milestone criteria -All non-required services disconnected and removed
RIVII	Intrastructure decommissioning and removal	All non-required services disconnected and removed All concrete, bitumen and gravel roads removed (where not to be retained)
		All non-required operational pipelines drained and removed
		•All fencing that is not part of PMLU requirements removed
		•All non-required buildings and footings demolished and/or removed off-site
		•All machinery and equipment removed
		•All surface water drainage infrastructure that is not retained in the final landform removed
		•All rubbish removed
RM2	Management of contaminated land status	• Contaminated material either remediated in situ or removed/transported to an approved landfill for disposal and waste tracking information recorded
		and submitted
		 Eontaminated land assessment undertaken by an appropriately qualified person1. If required, a 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
RM3	Landform development (re-profiling / re shaping) of land affected by disturbance	 All earthworks and landform reshaping /re-profiling works completed to design specifications
		 Beotechnical assessment by an appropriately qualified person1 confirms that long-term geotechnical stability has been achieved
		 Eertification provided by an appropriately qualified person1 confirms that drainage features are constructed to design specifications
		Landform constructed to the following design parameters, where relevant:
		Waste rock emplacement:
		o8lopes <10* (17%)
		oBininterrupted batter length ≤70 m
		o≋table berms or bunds (≥5 m wide)
		Filood levee slopes s10* (17%)
		• <u>Biversions:</u>
		o&verage grade of 0.00158 m/m
		olialley length of 7.25 km and stream length of 8.25 km
		oBtream sinuosity of approximately 1.12
RM4	Country .	
KIVI4	Capping	 All earthworks and landform reshaping /re-profiling works completed to design specifications Certification provided by an appropriately qualified person1 confirms that drainage features are constructed to design specifications
		 Bertification provided by an appropriately qualified person1 contirms that drainage features are constructed to design specifications Broundwater monitoring program confirms no migration of contaminants
		 Broundwater monitoring program contirms no migration of contaminants Beotechnical assessment by an appropriately qualified person1 confirms that long-term geotechnical stability has been achieved
		Beotechnical assessment by an appropriately qualified personic commits that long-term geotechnical stability has been achieved Bandform constructed to design parameters including:
		Bandform constructed to design parameters including: obontainment wall limited to 16 m in height
		odbuter slope angles in the order of 1(V) in 3(H) (18")
		address sobre angles in the order of 1(v) in 3(n) (16.) obover placement over the tailings (2 m)
		oplacement of non-sodic cover materials (50 mm)
		opiacement of non-socie cover materials (s0 mm) ofbosoil (300 mm)
		depsol (soo min)
RM5	Surface preparation (topdressing, contour ripping, soil amelioration)	•Brior to each rehabilitation event, soil health and suitability are assessed and documented by an appropriately qualified person1, and a
		recommendation made for ameliorants to ensure sodicity, salinity, pH and fertility levels are suitable to achieve the relevant PMLU
		 Records of ameliorants applied and incorporated into surface, as recommended by an appropriately qualified person1
		 Records of topsoil origin and placement of a target depth of 300 mm
		Ripping undertaken along the contour of slopes
BM6	Revegetation (seeding and / or planting) – grazing	 Records demonstrate seeding of target species and/or planting of tube stock (where relevant) specified in:
		offable 24:Eurrent indicative species and sowing rates for low intensity grazing PMLU; and
		aliable 25:Burrent indicative species and sowing rates for shade trees in a low intensity grazing PMLU
RM7	Revegetation (seeding and / or planting) - Native (riparian) vegetation	 Records demonstrate seeding of target species and/or planting of tube stock (where relevant) specified in:
		offable 26:Eurrent indicative species and sowing rates for native riparian habitat PMLU
RM8	Achievement of grazing PMLU to stable condition	•No prohibited invasive or restricted invasive plants, and weed cover is s5% (excluding exotic pasture grasses). Weed abundance is no greater than at
		representative analogue sites
		 Target percentage vegetation ground foliage cover of ≥50th percentile of that of representative analogue sites with similar landform parameters
		 Eand capability assessment undertaken by an appropriately qualified person1 confirms that land has achieved a minimum class 4
		•Erosion classification3 is comparable with erosion classifications3 from nearby equivalent land uses with similar landform parameters, determined using
		analogue sites established in accordance with section 3.7 (Monitoring and Maintenance)
		 No active erosion present as demonstrated by no increase in erosion ratings over time
		 Bazard and safety assessment completed by an appropriately qualified person1 demonstrates hazards are consistent with the type and severity of
		hazards typical of the adjacent equivalent land use
RM9	Achievement of native vegetation PMLU to stable condition	 Downstream water quality complies with water quality objectives or upstream / reference data
		No erosion classified3 as 'severe' nor 'extreme' gully erosion or washout features
		No active erosion present as demonstrated by no increase in erosion ratings over time
		 Assessed as geotechnically stable by an appropriately qualified person1
		 No prohibited invasive or restricted invasive plants, and weed cover is s5% (excluding exotic pasture grasses). Weed abundance is no greater than at
		representative analogue sites
		offazard and safety assessment completed by an appropriately qualified person1 demonstrates hazards are consistent with the type and severity of
2440	A shift on a set of the set of th	hazards typical of the adjacent equivalent land use
RM10	Achievement of target pasture productivity criteria for grazing PMLU	Pasture productivity is consistently2 similar to or exceeding analogue sites Wegetation structure and condition is consistent2 with analogue sites
RM11	Achievement of native vegetation PMLU to a sustainable condition	 Evidence of native fauna utilisation in the form of tracks, scats, and opportunistic observations
		 Eand capability assessment undertaken by an appropriately qualified person1 confirms that land has achieved a minimum class 4
		 Evidence of flora recruitment from rehabilitation monitoring data
		 Megetation structure and condition is consistently2 similar to or exceeding analogue sites
		 Eield-based monitoring data provided in the final rehabilitation report demonstrates that the following attributes are comparable or greater than
		representative analogue sites:
		ospecies richness of tree, shrub and groundcover functional groups;
		oBree canopy cover;
		oShrub canopy cover; and
		operennial grass cover
RM12	Achievement of retained infrastructure PMLU to stable condition	•Hazard and Safety Assessment completed by an appropriately qualified person1 demonstrates hazards in RAs are consistent with the type and severity
		of hazards typical of neighbouring equivalent land use. Remaining hazards are considered to be low risk with no significant increase in risk expected over
		time
		 Enal landform survey confirms no built structures remain other than those that form part of a landholder agreement
		 No erosion classified3 as 'severe' nor 'extreme' gully erosion or washout features
		 No active erosion present as demonstrated by no increase in erosion ratings over time

1.1		a person who has professional qualifications, training, skills or experience relevant to the is met for a minimum of three consecutive years.	enominated subject matter and can give authoritative assessment, advice and analysis on performance relating to the subject matter using the relevant pro	otocols, standards, methods, or literature.
Erc	osion classification	Minor	Moderate	Severe
She	eet erosion	Shallow soil denosits downsione	Partial exercise of motor moderate coll denosits downdone .etc	Loss of surface horizons: root exposure etc

Shallow soil deposits downslope	Partial exposure of roots; moderate soil deposits downslope, etc.	Loss of surface horizons; root exposure, etc.
<15 rills and <0.3 m deep	15 – 30 rills and <0.3 m deep	>30 rills and/or any >0.3 m deep
		Present
		Present

1) Insert new rows below the table to record more Rehabilitation Area Milestones for the project

2) 2) Ensure all Rehabilitation 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

Milestone reference	Management milestone	Milestone criteria
MM1	Achievement of final landform design	Hesidual void highwall with the following angles: OBO' for competent rock; and OBB' for incompetent rock; Hesidual Media Media Media Media Media Defended Media Media Defended Defended Media Defended Defe
MM2	Achievement of surface and safety requirements	•Snery infrastructure established around the void, including the following: addequate bunding in place confirmed to be geotechnically stable by an appropriately qualified person1; and opermitter fending and signage erected to prevent access to four and humans. #Bunding constructed to the following design or iteria: adminimum base which of a m; add minimum height of 2 m; and more and constructed to the more and construction to any instability of the pin erec
MM3	Arbiguement of sufficient improvement	Assessment by a suitably qualified person1 that no environmental harm will occur outside of the relevant tenure boundary. •Bertification from an appropriately qualified person1 that the residual voids are safe to humans and livestock. •Bertification from an appropriately qualified person1 that the water quality and levels in the voids will not cause environmental harm to the surrounding environment.

Footnotes: 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.

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