

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				Sulfide dump region (including Historical Sulfide Disposal Dump)						
Total rehabilitation area size (ha)				3*						
Commencement of first milestone: RM1				1/07/2033						
PMLU				Low Intensity Grazing						
Date area is available	1/07/2033	1/07/2053								
Cumulative area available (ha)	1	3								
Milestone completed by	1/07/2034	1/07/2054	1/07/2059							
Milestone Reference	Cumulative area achieved (ha)									
RM1	1									
RM2		3								
RM3		3								
RM4		3								
RM5		3								
RM6		3								
RM7			3							
RM8			3							

- 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).

* Calculated as 2.75; to account for inaccuracies in spatial data, a whole number has been used. There are inherent errors in spatial data that describe the location, shape and boundaries of features. The sources of error include raw data (eg scale), data manipulation (eg datum transformations), presentation (eg display) and human (eg digitising). Every data source, method of manipulation, and end presentation contain errors. Given the error sources, limitations exist when using the presented spatial data. No measurement is ever exactly and entirely accurate other than by chance. Where land areas are calculated, whole numbers are reported together with a bracketed number to 1 decimal place, the bracketed number is nothing other than informative, it does not purport to be accurate.

Post-mining land uses (PMLU)										
Rehabilitation area				RA2						
Relevant activities				Old mine workings						
Total rehabilitation area size (ha)				1*						
Commencement of first milestone: RM4				1/07/2053						
PMLU				Low Intensity Grazing						
Date area is available	1/07/2053									
Cumulative area available (ha)	1									
Milestone completed by	1/07/2054	1/07/2059								
Milestone Reference	Cumulative area achieved (ha)									
RM4	1									
RM5	1									
RM6	1									
RM7		1								
RM8		1								

- 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).

* Calculated as 1.19; to account for inaccuracies in spatial data, a whole number has been used. There are inherent errors in spatial data that describe the location, shape and boundaries of features. The sources of error include raw data (eg scale), data manipulation (eg datum transformations), presentation (eg display) and human (eg digitising). Every data source, method of manipulation, and end presentation contain errors. Given the error sources, limitations exist when using the presented spatial data. No measurement is ever exactly and entirely accurate other than by chance. Where land areas are calculated, whole numbers are reported together with a bracketed number to 1 decimal place, the bracketed number is nothing other than informative, it does not purport to be accurate.

Post-mining land uses (PMLU)										
Rehabilitation area				RA3						
Relevant activities				Core yard, laydown areas, previous mill and ROM, old stockpile area, office and laboratory						
Total rehabilitation area size (ha)				3*						
Commencement of first milestone: RM2				1/07/2053						
PMLU				Low Intensity Grazing						
Date area is available	1/07/2053									
Cumulative area available (ha)	3									
Milestone completed by	1/07/2054	1/07/2059								
Milestone Reference	Cumulative area achieved (ha)									
RM2	3									
RM3	3									
RM4	3									
RM5	3									
RM6	3									
RM7		3								
RM8		3								

- 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).

* Calculated as 3.16; to account for inaccuracies in spatial data, a whole number has been used. There are inherent errors in spatial data that describe the location, shape and boundaries of features. The sources of error include raw data (eg scale), data manipulation (eg datum transformations), presentation (eg display) and human (eg digitising). Every data source, method of manipulation, and end presentation contain errors. Given the error sources, limitations exist when using the presented spatial data. No measurement is ever exactly and entirely accurate other than by chance. Where land areas are calculated, whole numbers are reported together with a bracketed number to 1 decimal place, the bracketed number is nothing other than informative, it does not purport to be accurate.

Post-mining land uses (PMLU)										
Rehabilitation area				RA4						
Relevant activities				Roads and pipeline						
Total rehabilitation area size (ha)				1*						
Commencement of first milestone: RM2				1/07/2053						
PMLU				Low Intensity Grazing						
Date area is available	1/07/2053		1/07/2059							
Cumulative area available (ha)	0.8		1							
Milestone completed by	1/07/2054	1/07/2059	1/07/2060	1/07/65						
Milestone Reference	Cumulative area achieved (ha)									
RM2	0.8		1							
RM4	0.8		1							
RM5	0.8		1							
RM6		0.8		1						
RM7		0.8		1						
RM8		0.8		1						

- 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).

* Calculated as 0.95; to account for inaccuracies in spatial data, a whole number has been used. There are inherent errors in spatial data that describe the location, shape and boundaries of features. The sources of error include raw data (eg scale), data manipulation (eg datum transformations), presentation (eg display) and human (eg digitising). Every data source, method of manipulation, and end presentation contain errors. Given the error sources, limitations exist when using the presented spatial data. No measurement is ever exactly and entirely accurate other than by chance. Where land areas are calculated, whole numbers are reported together with a bracketed number to 1 decimal place, the bracketed number is nothing other than informative, it does not purport to be accurate.

Post-mining land uses (PMLU)										
Rehabilitation area				RA5						
Relevant activities				Infrastructure on former tailings (TSF4)						
Total rehabilitation area size (ha)				2*						
Commencement of first milestone: RM2				1/07/2053						
PMLU				Low Intensity Grazing						
Date area is available	1/07/2053									
Cumulative area available (ha)	2									
Milestone completed by	1/07/2054	1/07/2059								
Milestone Reference	Cumulative area achieved (ha)									
RM2	2									
RM5	2									
RM6	2									
RM7		2								
RM8		2								

- 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).

* Calculated as 1.82; to account for inaccuracies in spatial data, a whole number has been used. There are inherent errors in spatial data that describe the location, shape and boundaries of features. The sources of error include raw data (eg scale), data manipulation (eg datum transformations), presentation (eg display) and human (eg digitising). Every data source, method of manipulation, and end presentation contain errors. Given the error sources, limitations exist when using the presented spatial data. No measurement is ever exactly and entirely accurate other than by chance. Where land areas are calculated, whole numbers are reported together with a bracketed number to 1 decimal place, the bracketed number is nothing other than informative, it does not purport to be accurate.

Post-mining land uses (PMLU)										
Rehabilitation area				RA6						
Relevant activities				TSF3						
Total rehabilitation area size (ha)				5*						
Commencement of first milestone: RM9				1/07/2053						
PMLU				Industrial						
Date area is available	1/07/2053									
Cumulative area available (ha)	5									
Milestone completed by	1/07/2053									
Milestone Reference	Cumulative area achieved (ha)									
RM9	5									

- 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).

* Calculated as 5.37; to account for inaccuracies in spatial data, a whole number has been used. There are inherent errors in spatial data that describe the location, shape and boundaries of features. The sources of error include raw data (eg scale), data manipulation (eg datum transformations), presentation (eg display) and human (eg digitising). Every data source, method of manipulation, and end presentation contain errors. Given the error sources, limitations exist when using the presented spatial data. No measurement is ever exactly and entirely accurate other than by chance. Where land areas are calculated, whole numbers are reported together with a bracketed number to 1 decimal place, the bracketed number is nothing other than informative, it does not purport to be accurate.

Non-use management area (NUMA)										
Improvement area				IA1						
Relevant activities				NUMA						
Total size (ha)				52*						
Commencement of first milestone: MM1				1/07/2053						
NUMA				Residual void and safety bund						
Date area is available	1/07/2053									
Cumulative area available (ha)	52									
Milestone completed by	1/07/2059									
Milestone Reference	Cumulative area achieved (ha)									
MM1	52									
MM2	52									
MM3	52									
MM4	52									
MM5	52									

- 1) Insert new columns to the yellow table to include further management milestone dates.
- 2) Insert new columns to the blue table to match management milestone dates.
- 3) Insert new rows to the blue table to include additional management milestone references.
- 4) Insert the relevant number in the "Milestone reference" column (i.e. MM1).

* Calculated as 51.62; to account for inaccuracies in spatial data, a whole number has been used. There are inherent errors in spatial data that describe the location, shape and boundaries of features. The sources of error include raw data (eg scale), data manipulation (eg datum transformations), presentation (eg display) and human (eg digitising). Every data source, method of manipulation, and end presentation contain errors. Given the error sources, limitations exist when using the presented spatial data. No measurement is ever exactly and entirely accurate other than by chance. Where land areas are calculated, whole numbers are reported together with a bracketed number to 1 decimal place, the bracketed number is nothing other than informative, it does not purport to be accurate.

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Hazardous waste managed	Historical sulfidic waste material covered. Specifications for cap are: (a) double capillary break, 2 layers of 0.3 m for minimum of 0.6 m total thickness (b) low permeability layers minum of 0.5 m thickness (c) rock cover minimum of 1.5 m thickness (d) growth media minimum of 0.15 m thickness.
RM2	Infrastructure removal	Removal of built infrastructure that is not required for ongoing beneficial use, including building materials, services, slabs and footings.
RM3	Appropriately decommissioned	• Site Investigation Report: - prepared and certified by an appropriately qualified person; and - approved in accordance with the <i>Environmental Protection Act</i> 1994. • Site removed from Contaminated Land Register by the registrar; or • Site Management Plan: - prepared and certified by an appropriately qualified person and - approved in accordance with the <i>Environmental Protection Act</i> 1994 and - includes a statement by the underlying landholder accepting responsibility to implement the Site Management Plan.
RM4	Landform development	(a) All major earthworks completed in accordance with <i>as constructed</i> survey plan showing surveyed area contours, finished slope and conformance to designed landform and drainage. (b) Drainage works within rehabilitation areas completed, confirmed by survey. (c) Survey confirms no active erosion gullies ≥ 30 cm depth.
RM5	Surface preparation	(a) Tracks ripped to a depth of 0.5 m and graded; (b) Soil material spread to a depth of 200 mm; and (c) Evidence of (a) and (b) documented.
RM6	Revegetation	Revegetation process to include documented evidence of seeding and/or tubestock planting composed of any combination from the following list of native plant species: <i>Acacia disparrima subsp. calidestris, Acacia flavescens, Acacia holosericea, Acacia simsii, Acacia victoriae, Alphitonia excelsa, Bothriochloa bladhii, Breynia oblongifolia, Carissa ovata, Clerodendrum floribundum, Corymbia clarksoniana, Corymbia dallachiana, Corymbia erythrophloia, Corymbia tessellaris, Crotalaria medicaginea, Croton minimus, Denhamia bilocularis, Eragrostis elongata, Erythrina vespertilio, Eucalyptus leptophleba, Eucalyptus platyphylla, Grewia latifolia, Grewia savannicola, Heteropogon contortus, Indigofera pratensis, Larsenaikia ochreata, Melaleuca quinquenervia, Melaleuca stenostachya, Melaleuca viridiflora, Pandorea pandorana, Panicum decompositum, Petalostigma pubescens, Rhynchosia minima, Terminalia subacoptera, Themeda triandra, Vachellia bidwillii.</i>
RM7	Landform stability	(a) Survey confirms no active erosion gullies ≥ 30 cm depth. (b) Within six months prior to relinquishment, an appropriately qualified person (Register of Professional Engineers of Queensland) certifies that as constructed landform achieves design criteria for geotechnical stability with a Factor of Safety (FOS) ≥ 1.5 .
RM8	Achievement of Low Intensity Grazing PMLU (former hard rock mining disturbance areas)	The following criteria are to be certified as having been achieved by an appropriately qualified person confirming that the rehabilitation achieves the PMLU and is stable (as defined in the <i>Environmental Protection Act</i> 1994). (a) Median tree stem density $\geq 70\%$ of median tree stem density from grazed reference sites. (b) Median groundcover equal to median groundcover from grazed reference sites $\pm$ one standard deviation. (c) $\geq 50\%$ of groundcover accounted for by a combination of any of the following species: <i>Bothriochloa bladhii, Bothriochloa pertusa, Panicum decompositum, Rhynchosia minima, Stylosanthes species, Themeda triandra</i> and/or any other native grasses or forbs. (d) A weed management plan is implemented and no weeds defined as <i>Prohibited Matter</i> or <i>Restricted Matter</i> under the <i>Biosecurity Act</i> 2014 are present. (e) Pasture management measures for rehabilitated areas identified and adopted in accordance with a Post Closure Management Plan.
RM9	Achievement of Industrial PMLU (former tailings TSF3)	Evidence of retained infrastructure agreement.

- 1) Insert new rows below the table to record more Rehabilitation Area Milestones for the project
- 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	Void Water Level	Water level is $\leq 365\text{mRL}$.
MM2	Safety bund installed	Safety bund maintained.
MM3	Weed management	A weed management plan is implemented and no weeds defined as <i>Prohibited Matter</i> or <i>Restricted Matter</i> under the <i>Biosecurity Act 2014</i> are present.
MM4	Landform stability	Within six months prior to relinquishment, an appropriately qualified person (Register of Professional Engineers of Queensland) certifies that as constructed landform achieves design criteria for geotechnical stability with a Factor of Safety (FOS) ≥ 1.5 .
MM5	Portals, vents and egress points bunded or sealed	(a) Features linked to underground mining not within safety bund are sealed. This requirement applies to a nominal 2 portals (one 7 m x 4 m and another 6 m x 4 m, each with 50 m ² aprons) and 2 (6 m diameter) vent rises. (b) Within six months prior to relinquishment, an assessment has been undertaken by an appropriately qualified person (Register of Professional Engineers of Queensland) certifies that features linked to underground mining have been appropriately bunded or sealed and are safe.
MM5		
MM6		
MM7		
MM8		
MM9		
MM10		

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

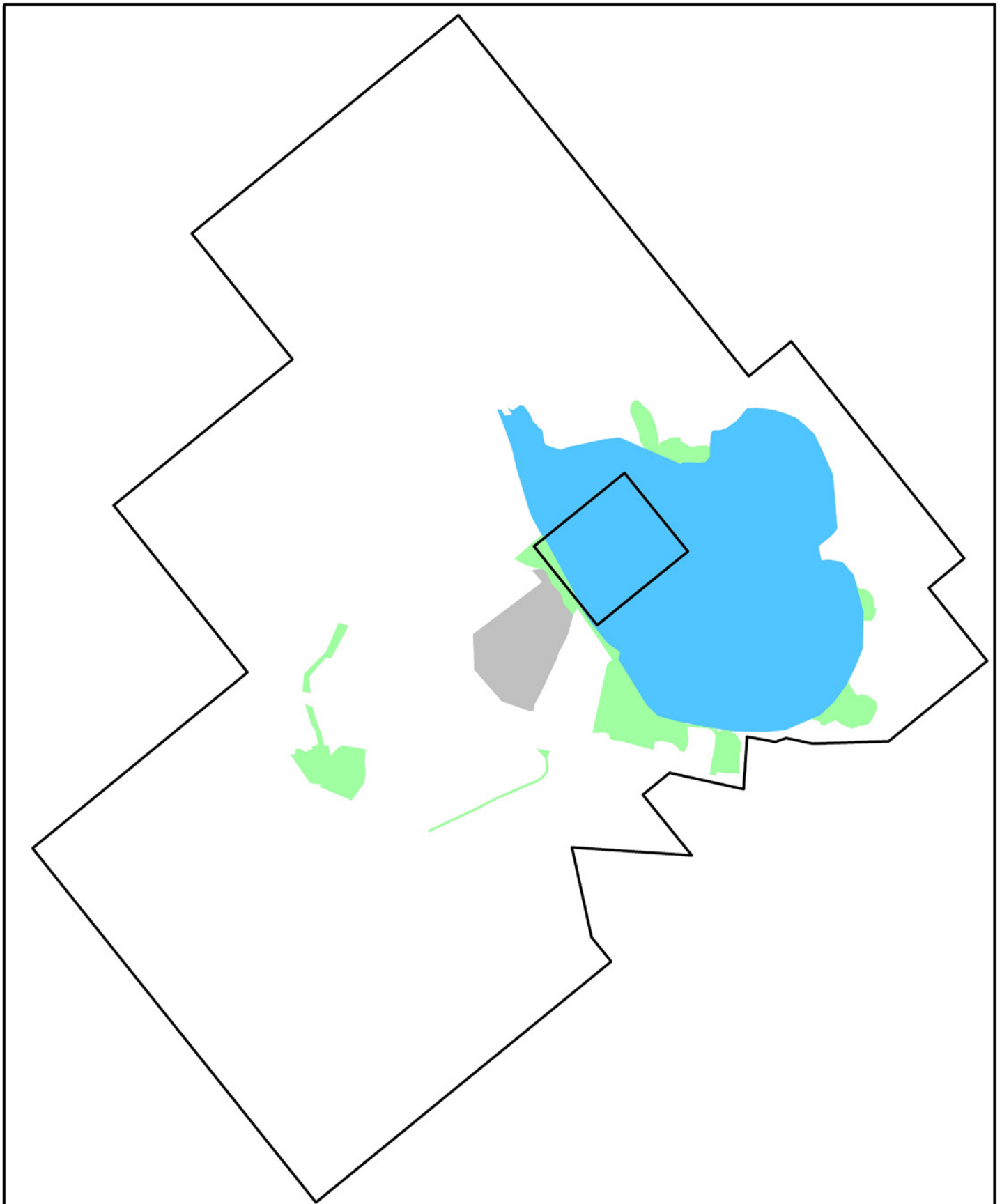


Figure 1: Final site design

Project: Mt Carbine Project Progressive Rehabilitation and Closure Plan

 Mining lease boundary

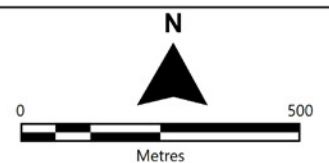
Maximum disturbance footprint
Post-mining Land Use

 Industrial

 Low Intensity Grazing

Non-use Management Area

 Residual void and safety
bund



Source: DME 2004, MCQ 2023, 2024.

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NRA Ref: 380018.01
Author: Angelina Bouet
Date: April 2025



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Recommended print size: A4

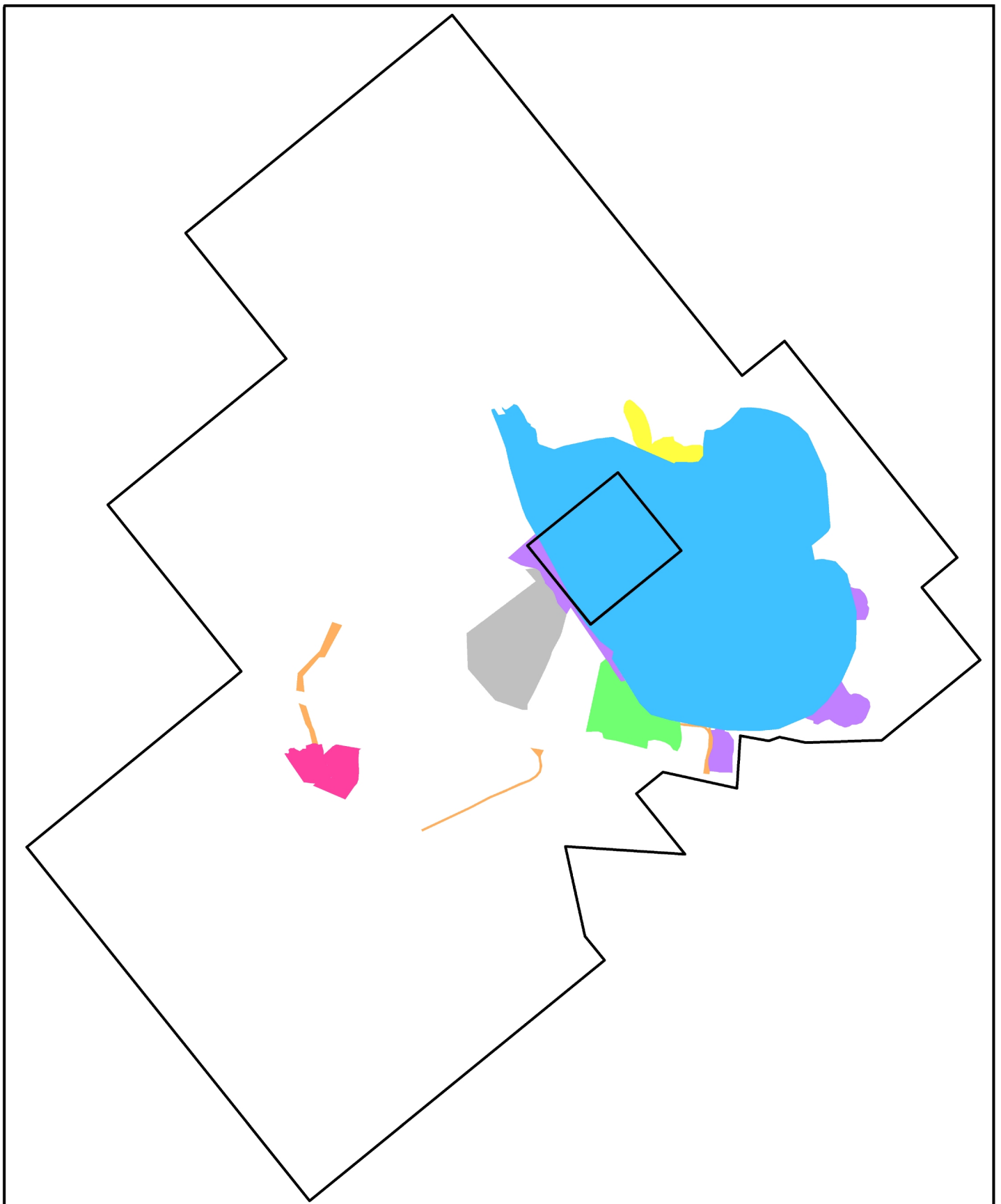


Figure 2: Rehabilitation Areas and Improvement Areas

Project: Mt Carbine Project Progressive Rehabilitation and Closure Plan

 Mining lease boundary

PMLU Low Intensity Grazing

 RA1 - Sulfide dump region (including Historical Sulfide Disposal Dump)

 RA2 - Old mine workings

 RA3 - Core yard, laydown areas, previous mill and ROM, old stockpile area, office and laboratory

 RA4 - Roads and pipeline

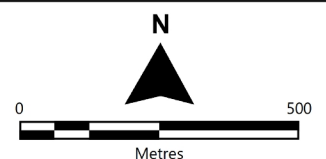
 RA5 - Infrastructure on former tailings (TSF4)

PMLU Industrial

 RA6 - TSF3

NUMA

 IA1 - Residual void and safety bund



Source: DME 2004, MCQ 2023, MCQ 2024.

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Recommended print size: A4

References for figures in PRCP Schedule

DME 2004, *Mining Lease*, published November 2004, Metadata update 19 April 2007, Queensland Department of Mines and Energy.

MCQ 2023, *Mt Carbine Mine life of mine plan*, Mt Carbine Quarries Pty Ltd, Mt Carbine.

MCQ 2024, *Safety bund and perimeter fencing 20241010*, 10 October 2024, Mt Carbine Quarries Pty Ltd, Mt Carbine.