# Graphinex – Esmeralda Graphite Project

# Environmental Impact Statement

## Appendix T.2 – PRCP Schedule

GRAPHINEX

# Template

***Environmental Protection Act 1994***

## PRCP schedule template (Word)

*This template can be used for completing a PRCP schedule for the submission of a progressive rehabilitation and closure plan (PRC plan).*

# 1 General Instructions

- This form or ERS/2019/5103 must be used for completing a proposed 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.

**Rehabilitation area (RA) and improvement area (IA) table**

- Each RA and IA table contains two parts (yellow and blue) for recording the time-based rehabilitation milestones.
- A default value of one (1) RA is represented by one RA table below (RA1).
    - To record additional RAs for your project, make a copy of the RA table below and update it to the relevant RA number (.e.g., RA2).
- A default value of one (1) IA is represented by one IA table below (IA1).
    - To record additional IAs for your project make a copy of the IA table below and update it to the relevant IA number (e.g., IA2).
    - Delete the IA table below if there is no IA for your project.
- Add a new column or row to each table as required for your information requirements.

**RA milestones and IA milestones**

- Two (2) separate tables below exist for recording the "Rehabilitation area milestones" and "Improvement area milestones".
    - Delete the Improvement area milestones table if it does not apply to your project.
    - Delete additional rows in either table 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.



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# 2 Further Instructions when inputting Post-Mining Land Uses (PMLUs)

**Headings under RA table**

- Rehabilitation area - The rehabilitation area must align with the reference maps included in the rehabilitation planning part of the PRC plan and the spatial data submitted with the application. 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.
- First milestone reference to commence - The milestone number for the first milestone to commence must be specified. This will often be RM1 but may be a later milestone if RM1 (or later milestones) does not apply to the RA.
- Commencement of first milestone - The applicant must nominate a date for when the first milestone for the rehabilitation area will commence.
- PMLU - The PMLU must align with those identified in the rehabilitation planning part of the PRC plan including the proposed final site design and the spatial data submitted with the application.
- 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 become 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. All completion dates must be 10 December of the relevant year, as required in section 4.1 step 7 of the PRCP Guideline.
- 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 table with the detailed milestone criteria. The milestones must be achieved consecutively.

**Headings under Rehabilitation Area Milestones table**

- Rehabilitation milestone & Milestone criteria - The “rehabilitation milestone” is a short description of the rehabilitation activities. The "milestone criteria" must be written in a manner that delivers on SMART principles and demonstrate achievement of the milestone.

# 3 Further Instructions when inputting Non-Use Management Areas (NUMAs)

**Headings under Improvement Area (IA) tables**

- Improvement area - The improvement area must align with the reference maps included in the rehabilitation planning part of the PRC plan and the spatial data submitted with the application. 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.
- First milestone reference to commence - The milestone number for the first milestone to commence must be specified. This will often be MM1 but may be a later milestone if MM1 (or later milestones) does not apply to the IA, or if earlier milestones were achieved prior to the commencement of the PRCP schedule.
- Commencement of first milestone - The applicant must nominate a date for when the first milestone for the improvement area will commence.
- NUMA - The NUMA must align with those identified in the rehabilitation planning part of the PRC plan including the proposed final site design and the spatial data submitted with the application.
- 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 become 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 table with the detailed milestone criteria. The milestones must be achieved consecutively.

**Headings under Improvement Area Milestones table**

- Management milestone & Milestone criteria - The “management milestone” is a short description of the management activities. The "milestone criteria" must be able to demonstrate achievement of the milestone.

# 4 PART 1: Post mining land uses

## 4.1 (RA1) Rehabilitation area 1

| Post-mining land uses (PMLU) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | RA1: Mine infrastructure area | | | | | | | | | |
| **Relevant activities** | Mineral processing plant, ore handling facilities and associated infrastructure, sewage treatment plant and effluent irrigation infrastructure, fencing, and magazine | | | | | | | | | |
| **Total rehabilitation area size (ha)** | 18 | | | | | | | | | |
| **Commencement of first milestone: RM1** | 10/12/2084 | | | | | | | | | |
| **PMLU** | Grazing native vegetation (low intensity) | | | | | | | | | |
| **Date area is available** | 10/12/2084 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 12 | | | | | | | | | |
| **Milestone completed by** | 10/12/2090 | 10/12/2096 | 10/12/2111 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |
| **RM** 1 | 18 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**2 | 18 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**5 | 18 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**6 | ## | 18 | ## | ## | ## | ## | ## | ## | ## | ## |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM**7 | ## | 18 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**9 | | | 18 | | | | | | | |
| **RM**13 | | | | 18 | | | | | | |

## 4.2 (RA2) Rehabilitation area 2

| **Post-mining land uses (PMLU)** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | | | | RA2: Retained infrastructure | | | | | | |
| **Relevant activities** | | | | Mine access roads and tracks, airfield, solar array and associated infrastructure, camp, cattle exclusion fence, and helipad | | | | | | |
| **Total rehabilitation area size (ha)** | | | | 175 | | | | | | |
| **Commencement of first milestone: RM1** | | | | 10/12/2084 | | | | | | |
| **PMLU** | | | | Retained infrastructure | | | | | | |
| **Date area is available** | 10/12/2084 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 175 | | | | | | | | | |
| **Milestone completed by** | 10/12/2087 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |
| **RM** 2 | 175 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**12 | 175 | ## | ## | ## | ## | ## | ## | ## | ## | ## |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM**13 | ## | 175 | ## | ## | ## | ## | ## | ## | ## | ## |

## 4.3 (RA3) Rehabilitation area 3

| **Post-mining land uses (PMLU)** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | | | RA3: Supporting surface activities | | | | | | | |
| **Relevant activities** | | | Minor areas of surficial disturbance arising from approved supporting activities requiring rehabilitation; including topsoil stockpiles on natural surfaces | | | | | | | |
| **Total rehabilitation area size (ha)** | | | 1295.1 | | | | | | | |
| **Commencement of first milestone: RM1** | | | 10/12/2084 | | | | | | | |
| **PMLU** | | | Grazing native vegetation (low intensity) | | | | | | | |
| **Date area is available** | 10/12/2084 | 10/12/2089 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 1148.2 | 1295.1 | | | | | | | | |
| **Milestone completed by** | 10/12/2089 | 10/12/2094 | 10/12/2099 | 10/12/2114 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |
| **RM** 1 | 1148.2 | 1295.1 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**2 | 1148.2 | 1295.1 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**5 | ## | 1295.1 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**6 | ## | 1295.1 | ## | ## | ## | ## | ## | ## | ## | ## |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM**7 | ## | ## | 1295.1 | ## | ## | ## | ## | ## | ## | ## |
| **RM**9 | | | | 1295.1 | | | | | | |
| **RM**13 | | | | | 1295.1 | | | | | |

## 4.4 (RA4) Rehabilitation area 4

| **Post-mining land uses (PMLU)** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | | | | RA4: Rehabilitated water management infrastructure | | | | | | |
| **Relevant activities** | | | | Process water dam, pit dewatering dams, MAW sump, raw water dam, clean water sump, and sediment dams 1, 2, 4 | | | | | | |
| **Total rehabilitation area size (ha)** | | | | 25.4 | | | | | | |
| **Commencement of first milestone: RM1** | | | | 10/12/2084 | | | | | | |
| **PMLU** | | | | Grazing native vegetation (low intensity) | | | | | | |
| **Date area is available** | 10/12/2084 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 25.4 | | | | | | | | | |
| **Milestone completed by** | 10/12/2090 | 10/12/2095 | 10/12/2099 | 10/12/2114 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |
| **RM** 1 | 25.4 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**2 | 25.4 | ## | ## | ## | ## | ## | ## | ## | ## | ## |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM**3 | 24.3 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**5 | 24.3 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**6 | 24.3 | 25.4 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**7 | | | 25.4 | | | | | | | |
| **RM**9 | | | | 25.4 | | | | | | |
| **RM**13 | | | | | 25.4 | | | | | |

## 4.5 (RA5) Rehabilitation area 5

| **Post-mining land uses (PMLU)** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | RA5: Retained water storage | | | | | | | | | |
| **Relevant activities** | Sediment dam 3 | | | | | | | | | |
| **Total rehabilitation area size (ha)** | 2.95 | | | | | | | | | |
| **Commencement of first milestone: RM1** | 10/12/2084 | | | | | | | | | |
| **PMLU** | Retained water storage | | | | | | | | | |
| **Date area is available** | 10/12/2084 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 2.95 | | | | | | | | | |
| **Milestone completed by** | 10/12/2090 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM** 2 | 2.95 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**11 | 2.95 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**13 | ## | 2.95 | ## | ## | ## | ## | ## | ## | ## | ## |

## 4.6 (RA6) Rehabilitation area 6

| **Post-mining land uses (PMLU)** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | | | | RA6: Backfilled void | | | | | | |
| **Relevant activities** | | | | Void backfilled with tailings, low permeability layer, and waste rock to approximately pre-existing surface level | | | | | | |
| **Total rehabilitation area size (ha)** | | | | 79.7 | | | | | | |
| **Commencement of first milestone: RM1** | | | | 10/12/2084 | | | | | | |
| **PMLU** | | | | Grazing native vegetation (low intensity) | | | | | | |
| **Date area is available** | 10/12/2084 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 79.7 | | | | | | | | | |
| **Milestone completed by** | 10/12/2089 | 10/12/2097 | 10/12/2112 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |
| **RM** 1 | 79.7 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**2 | 79.7 | ## | ## | ## | ## | ## | ## | ## | ## | ## |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM**3 | 79.7 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**5 | ## | 79.7 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**6 | ## | 79.7 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**7 | | 79.7 | | | | | | | | |
| **RM**9 | | | 79.7 | | | | | | | |
| **RM**13 | | | | 79.7 | | | | | | |

## 4.7 (RA7) Rehabilitation area 7

| **Post-mining land uses (PMLU)** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | RA7: Rehabilitated Levee | | | | | | | | | |
| **Relevant activities** | Rehabilitated levee | | | | | | | | | |
| **Total rehabilitation area size (ha)** | 11.6 | | | | | | | | | |
| **Commencement of first milestone: RM1** | 10/12/2088 | | | | | | | | | |
| **PMLU** | Grazing native vegetation (low intensity) | | | | | | | | | |
| **Date area is available** | 10/12/2088 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 11.6 | | | | | | | | | |
| **Milestone completed by** | 10/12/2094 | 10/12/2099 | 10/12/2114 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM** 3 | 11.6 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**5 | 11.6 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**6 | 11.6 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**7 | ## | 11.6 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**9 | ## | ## | 11.6 | ## | ## | ## | ## | ## | ## | ## |
| **RM**13 | | | | 11.6 | | | | | | |

## 4.8 (RA8) Rehabilitation area 8

| **Post-mining land uses (PMLU)** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | RA8: Rehabilitated waste rock dump | | | | | | | | | |
| **Relevant activities** | Footprint of waste rock dump used for backfilling void | | | | | | | | | |
| **Total rehabilitation area size (ha)** | 58.9 | | | | | | | | | |
| **Commencement of first milestone: RM1** | 10/12/2081 | | | | | | | | | |
| **PMLU** | Grazing native vegetation (low intensity) | | | | | | | | | |
| **Date area is available** | 10/12/2081 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 58.9 | | | | | | | | | |
| **Milestone completed by** | 10/12/2085 | 10/12/2091 | 10/12/2196 | 10/12/2111 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM** 1 | 58.9 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**2 | 58.9 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**3 | ## | 58.9 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**5 | ## | 58.9 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**6 | ## | 58.9 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**7 | | | 58.9 | | | | | | | |
| **RM**9 | | | | 58.9 | | | | | | |
| **RM**13 | | | | | 58.9 | | | | | |

## 4.9 (RA9) Rehabilitation area 9

| **Post-mining land uses (PMLU)** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | RA9: Retained waste rock dump | | | | | | | | | |
| **Relevant activities** | Out-of-pit waste rock dump | | | | | | | | | |
| **Total rehabilitation area size (ha)** | 42.7 | | | | | | | | | |
| **Commencement of first milestone: RM1** | 10/12/2084 | | | | | | | | | |
| **PMLU** | Grassland | | | | | | | | | |
| **Date area is available** | 10/12/2084 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 42.7 | | | | | | | | | |
| **Milestone completed by** | 10/12/2089 | 10/12/2092 | 10/12/2097 | 10/12/2112 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |

| Milestone Reference | Cumulative area achieved (ha) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **RM** 1 | 42.7 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**3 | 42.7 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**5 | ## | 42.7 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**6 | ## | 42.7 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**7 | ## | ## | 42.7 | ## | ## | ## | ## | ## | ## | ## |
| **RM**9 | | | | 42.7 | | | | | | |
| **RM**13 | | | | | 42.7 | | | | | |
| | | | | | | | | | | |

## 4.10 (RA10) Rehabilitation area 10

| Post-mining land uses (PMLU) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Rehabilitation area** | RA10: Retained tailings storage facility | | | | | | | | | |
| **Relevant activities** | TSF4 | | | | | | | | | |
| **Total rehabilitation area size (ha)** | 157.2 | | | | | | | | | |
| **Commencement of first milestone: RM1** | 10/12/2084 | | | | | | | | | |
| **PMLU** | Grassland | | | | | | | | | |
| **Date area is available** | 10/12/2084 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 157.2 | | | | | | | | | |

| **Milestone completed by** | 10/12/2090 | 10/12/2094 | 10/12/2099 | 10/12/2114 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |
| **RM** 1 | 157.2 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**3 | 157.2 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**4 | 157.2 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**2 | ## | 157.2 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**5 | ## | 157.2 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**6 | | 157.2 | | | | | | | | |
| **RM**7 | | | 157.2 | | | | | | | |
| **RM9** | | | | 157.2 | | | | | | |
| **RM13** | | | | | 157.2 | | | | | |

## 4.11 (RA11) Rehabilitation area 11

| **Post-mining land uses (PMLU)** | |
|---|---|
| **Rehabilitation area** | RA11: Rehabilitated tailings storage facility |
| **Relevant activities** | TSF 1, TSF2, TSF 3 |
| **Total rehabilitation area size (ha)** | 486.8 |
| **Commencement of first milestone: RM1** | 10/12/2076 |
| **PMLU** | Grazing native vegetation (low intensity) |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Date area is available** | 10/12/2076 | 10/12/2079 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 327.2 | 486.8 | | | | | | | | |
| **Milestone completed by** | 10/12/2079 | 10/12/2082 | 10/12/2085 | 1-/12/2090 | 10/12/2092 | 10/12/2107 | 10/12/2119 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |
| **RM** 1 | 327.2 | 486.8 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**2 | 164.3 | 327.2 | 486.8 | ## | ## | ## | ## | ## | ## | ## |
| **RM**3 | ## | 327.2 | 486.8 | | ## | ## | ## | ## | ## | ## |
| **RM**5 | ## | 164.3 | 327.2 | 486.8 | ## | ## | ## | ## | ## | ## |
| **RM**6 | ## | ## | 327.2 | 486.8 | ## | ## | ## | ## | ## | ## |
| **RM**7 | | | | 327.2 | 486.8 | | | | | |
| **RM**9 | | | | | | 486.8 | | | | |
| **RM**13 | | | | | | | 486.8 | | | |

## 4.12 (RA12) Rehabilitation area 12

| **Post-mining land uses (PMLU)** | |
|---|---|
| **Rehabilitation area** | RA12: Permanent Diversion |
| **Relevant activities** | Disturbance area associated with the diversion, and minor areas of surface disturbance arising from approved supporting activities requiring rehabilitation |

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|---|---|---|---|---|---|---|---|---|---|---|
| **Total rehabilitation area size (ha)** | | | | 60.8 | | | | | | |
| **Commencement of first milestone: RM1** | | | | 10/12/2033 | | | | | | |
| **PMLU** | | | | Riparian Ecosystem | | | | | | |
| **Date area is available** | 10/12/2033 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Cumulative area available (ha)** | 60.8 | | | | | | | | | |
| **Milestone completed by** | 10/12/2033 | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. | Click or tap here to enter. |
| **Milestone Reference** | **Cumulative area achieved (ha)** | | | | | | | | | |
| **RM** 6 | 60.8 | ## | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**8 | ## | 60.8 | ## | ## | ## | ## | ## | ## | ## | ## |
| **RM**10 | ## | ## | 60.8 | ## | ## | ## | ## | ## | ## | ## |
| **RM**13 | ## | ## | ## | 60.8 | ## | ## | ## | ## | ## | ## |
| **RM**## | ## | ## | ## | ## | ## | ## | ## | ## | ## | ## |

## 4.13 Rehabilitation area milestones

| Milestone reference | Rehabilitation milestone | Milestone criteria |
|---|---|---|
| **RM1** | Infrastructure decommissioning and removal | 1.1 With the exception of any infrastructure to remain as part of the PMLU, where infrastructure is agreed to be retained by the landholder as evidenced by a signed landholder agreement, or required for rehabilitation activities, the following are complete:<br>a. all services disconnected and removed;<br>b. all buildings and associated infrastructure dismantled and removed off-site;<br>c. all hardstand, concrete areas and roads (bitumen, blue metal, aggregate etc.) removed;<br>d. all fencing and associated foundations removed;<br>e. all pipelines drained and removed;<br>f. all boreholes capped and buried (including drill pads, monitoring bore holes, and seepage interception systems);<br>g. all waste not authorised to be disposed of on-site removed;<br>h. all surface water drainage infrastructure that is not compatible with the sustainment of the PMLU is removed;<br>i. all machinery and equipment, not required for rehabilitation works removed from site;<br>j. all dams dewatered and desilted; and<br>k. water course crossings and culverts removed. |
| **RM2** | Determination/management of contaminated land status | 2.1 Contaminated Land Investigation (investigation, remediation and validation) completed by a suitably qualified person (SQP) in accordance with appropriate guidance, including but not limited to the National Environment Protection (Assessment of Site Contamination) Measure 1999 (ASC NEPM) and National Remediation Framework.<br>2.2 Contaminated water and sediment removed from dams.<br>2.3 contaminated and hazardous material either remediated in situ or removed/transported to facility lawfully able to accept the material, a validation report has been completed, and, if required, a site suitability statement has been prepared.<br>2.4 Contaminated Land Auditor has certified that no contamination unsuitable for the PMLU remains or is occurring and has achieved RM2.2 and RM2.3.<br>For RA10 only<br>2.5 RM 2.1 to RM2.4 will take place after RM 4 – Capping is completed. |

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| **RM3** | Landform development (bulk earthworks/reprofiling/re-shaping | 3.1 All major earthworks are completed and landform constructed to design parameters in accordance with the design specification provided by an AQP that achieves an outcome that is safe, structurally stable and appropriate to support the achievement of the PMLU.<br>3.2 The permanent diversion (RA11) constructed in accordance with an AQP prepared and peer reviewed Design Plan for all watercourse diversions as per the guideline Works that interfere with water in a watercourse for a resource activity – watercourse diversions authorised under the Water Act (OSW.2019/4599), or a later revision.<br>3.3 Constructed landforms (RA9, RA10) achieve design criteria for geotechnical stability with a Factor of Safety (FoS) ≥ 1.5.<br>3.4 For RA6:<br>a. Sufficient surcharge material is placed to ensure that the final settled landform is water shedding.<br>3.5 For RA9, the WRD:<br>a. Maximum slope gradients of 30% measured from the toe of the slope to the crest of the slope; and<br>b. A maximum vertical height of no more than 65 m above the original ground level.<br>c. A maximum slope length of no more than 205 m measured from the top of the slope to the crest of the slope<br>3.6 For RA10, the final embankment of TSF4:<br>a. has maximum slope gradients of 38% measured from the toe of the slope to the crest of the slope; and<br>b. a maximum vertical height of no more than 20 m above the original ground level.<br>c. A maximum slope length of no more than 47 m measured from the top of the slope to the crest of the slope<br>3.7 An “as-constructed Report” prepared which details and justifies all variations to the landform feature designs, including a certification that such variations will not affect the design performance.<br>3.8 All environmentally problematic materials have been appropriately placed and located within the final landform, consistent with the relevant designs.<br>3.9 All landforms are shaped to be water shedding.<br>3.10 Tracks not being retained, per a signed landholder agreement, have been regraded.<br>3.11 Material from the WRDs, used in rehabilitation, has been demonstrated to be geochemically and physically appropriate for the intended purpose. |
| **RM4** | Capping/cover installation | 4.1 All capping materials are barren or not-acid forming (NAF), not capable of generating Acid and Metalliferous Drainage (AMD), or hazardous alkaline mine drainage.<br>4.2 Covered landform is water shedding and does not display surface ponding<br>4.3 The cover system displays erosional stability, is geotechnically stable and supports the PMLU.<br>4.4 Capping installed to design parameters including: |

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| | | a. working cover of at least 2 m thickness.<br>4.5 The cover system must demonstrate, through in situ monitoring and AQP verification, that:<br>a. water infiltration is minimised and<br>b. seepage is minimised and does not cause material environmental harm.<br>4.6 Certification provided by an AQP confirms that capping materials have been implemented to design or compaction specifications. |
| **RM5** | Surface preparation (topdressing, contour ripping, soil amelioration) | 5.1 Prior to each revegetation event, soil health and suitability assessed and documented by an AQP1, to confirm the following parameters are met:<br>c. pH in the range of 6-8.5;<br>d. EC (saturated extract) is ≤2 dS/cm (2,000 µS/cm);<br>e. Exchangeable sodium percentage (ESP %) <6; and<br>f. Emerson aggregate class is 3-4<br>5.2 and a recommendation made for ameliorants to ensure sodicity, salinity, pH and fertility levels are suitable to achieve the relevant PMLU.<br>5.3 Vegetation growth media placed to a target 0.15 m depth and a minimum depth of 0.10 m.<br>5.4 Deep ripping of compacted surfaces, to at least 0.3 m into soil/subsoil profile along contour of slopes.<br>5.5 Records to be collected and retained of:<br>a. growth media placement and origin;<br>b. ameliorants applied and incorporated into the surface;<br>c. evidence indicating achievement of target depth growth media placement depth; and<br>d. evidence of ripping/cultivation activity.<br>5.6 The surface and groundwater monitoring networks are installed and monitoring is underway. |
| **RM6** | Revegetation (seeding and/or planting) | 6.1 Seeding completed using seed mix and sowing rates described in Table 32: Seed mix or as amended for additional native endemic species as recommended by an AQP.<br>6.2 At least four species of 3P native pasture species, two native legumes and two native shade tree species established, from Table 32- Species list and seeding rates for grazing PMLU are applied per application area.<br>6.3 Minimum seeding rates, subject to revision based on experience, of:<br>a. For the upper and mid banks – 5 kg/ha trees species, 5 kg/ha woody understorey species and 5 kg/ha grasses and other groundcover species; and |

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| | | b. For the lower banks – 10 kg/ha of groundcover species.<br>6.4 Appropriate erosion controls installed/placed and functioning as designed (as per AQP certified report) to ensure plant establishment is not significantly impacted from erosive events. |
| **RM7** | Achievement of surface requirements (grazing, grassland PMLUs) | 7.1 Weed presence is less than 5% of total vegetative cover.<br>7.2 Ground cover:<br>a. For slopes ≤15%, total vegetative ground cover ≥80% and total groundcover ≥70%; and<br>b. For slopes > 15%, total vegetative groundcover ≥ 85% and total ground cover ≥ 90%<br>7.3 With respect to erosion:<br>a. No evidence of erosion classified as 'moderate' or 'severe' as defined by the appended Erosion classification framework2.<br>7.4 Erosion requiring intervention has been remediated and does not impact achieving the PMLUA<br>7.5 Surface water runoff quality for those quality characteristics determined to be CoCs based on-site-specific quality data must not exceed draft WQO detailed in Table 7<br>For RA9 and 10 only, in addition to RM7.1—RM7.4:<br>7.6 A BioCondition assessment completed in accordance with latest version of Queensland Herbarium's 'BioCondition Assessment Manual' determines that the PMLU has reached a BioCondition score of >10/40 PRCP Benchmark as described in Table 37. |
| **RM8** | Achievement of surface requirements (riparian ecosystem PMLU) | 8.1 Weed presence is a less than 5% of total vegetative cover.<br>8.2 Ground cover:<br>a. For slopes ≤15%, total vegetative ground cover ≥ 80% and total groundcover ≥70%; and<br>b. For slopes > 15%, total vegetative groundcover ≥ 85% and total ground cover ≥ 90%<br>8.3 With respect to erosion:<br>a. No evidence of erosion classified as 'moderate' or 'severe' defined by the appended Erosion classification framework2.<br>8.4 Erosion requiring intervention has been remediated and does not impact achieving the PMLU<br>8.5 Surface water runoff quality for those quality characteristics determined to be CoCs based on-site-specific quality data must not exceed draft WQO detailed in Table 7. |
| **RM9** | Achievement of target PMLU to safe and sustainable condition (grazing, grassland PMLUs) | 9.1 Safety hazards in the RAs are not significantly different to surrounding unmined landscapes subject to the same land use.<br>9.2 For RA9 and RA10:<br>a. Permanent fencing in place and maintained post-closure which excludes stock.<br>b. With respect to erosion: any erosion present will not compromise the achievement of a PMLU to a stable condition; |

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| | | c. No evidence of scouring, overtopping, sedimentation or destabilisation in or associated with erosion and sediment control and engineered drainage structures.<br>9.3 Surface water runoff quality for those quality characteristics determined to be CoCs based on-site-specific quality data must not exceed draft WQO detailed in Table 7.<br>**Grazing PMLU**<br>9.4 Minimum vegetation composition (per hectare (averaged)) of:<br>a. three species of 3P native pasture species;<br>b. two legumes; and<br>c. two shade tree species, present.<br>6. Native vegetation/grassland PMLUs.<br>9.5 A BioCondition assessment completed in accordance with latest version of Queensland Herbarium's 'BioCondition Assessment Manual' determines that the PMLU has reached a BioCondition score of >20/40 as described in Table 37. |
| **RM10** | Achievement of target PMLU to safe and sustainable condition (riparian ecosystem PMLU) | 10.1 Geomorphic index score: greater than or equal to upstream and downstream values (Index of Diversion Condition method)<br>10.2 Watercourse vegetation meets the following:<br>a. ≥2 native tree species;<br>b. ≥2 native shrubs species; and<br>c. ≥2 grass species.<br>d. Tree canopy cover ≥ 13%<br>10.3 Riparian vegetation index score: greater than or equal to upstream and downstream values (Index of Diversion Condition method).<br>10.4 All results from stream sediment quality should be monitored at, but not limited to, downstream monitoring sites, undertaken twice a year (at end of wet season and end of dry season) complies with ANZECC/ARMCANZ (2000) Interim Sediment Quality Guidelines – low, for a minimum of 5 consecutive years.<br>10.5 An AQP has certified that diversion being retained in the landform continue to achieve the following:<br>a. Incorporate natural features (including geomorphic and vegetation) present at the location of the diversion;<br>b. Maintain the pre-existing hydraulic characteristics of surface water for the area in which the watercourse diversion is located;<br>c. Maintain the hydraulic characteristics of the local watercourses without requiring ongoing maintenance;<br>d. Maintain sediment transport and water quality regimes that allow the diversion to be self-sustaining, while minimising any impacts to upstream and downstream water quality, geomorphology, or vegetation;<br>e. Maintain equilibrium and functionality in all substrate conditions at the location of the diversion; and |

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| | | f. geotechnically and erosionally stable. |
| **`RM11** | Achievement of target PMLU to safe and sustainable condition (retained water storage PMLU) | 11.1 Infrastructure to be transitioned to a future landholder is:<br>a. Suitable in type and scale for the approved post-mine land use;<br>b. Verified by an AQP as fit for purpose and;<br>c. Accepted by signed agreement with the future landholder.<br>11.2 An AQP certifies that all infrastructure to be retained on-site is safe, stable and will not cause environmental harm.<br>11.3 All retained water storages are safe and stable.<br>11.4 Water storages monitored quarterly, water must be of a suitable quality for livestock ingestion and must not exceed the stock water guidelines (ANZECC 2000), for a minimum of 5 consecutive years. |
| **RM12** | Achievement of target PMLU to safe and sustainable condition (retained infrastructure PMLU) | 12.1 Infrastructure to be transitioned to a future landholder is:<br>d. Suitable in type and scale for the approved post-mine land use;<br>e. Verified by an AQP as fit for purpose and;<br>f. Accepted by signed agreement with the future landholder.<br>12.2 An AQP certifies that all infrastructure to be retained on-site is safe, stable and will not cause environmental harm. |
| **RM13** | Surface water and groundwater demonstrate non-polluting landform (all PMLUs) | 13.1 For a minimum of five consecutive years groundwater quality must be monitored quarterly at, but not limited to, compliance bores for quality limits specified in Table 7 for those quality characteristics determined to be CoCs based on-site-specific quality data at limits to be determined from available site-specific water quality data. can only be triggered 3 times over 5 consecutive years prior to surrender.<br>13.2 Groundwater quality results must be collected for at least five consecutive years prior to surrender.<br>13.3 Surface water quality results monitored monthly during flow at nominated monitoring locations. Surface water monitoring locations must not exceed the quality limits specified in Table 7 for those quality characteristics determined to be CoCs based on-site-specific quality data at limits to be determined from available site-specific water quality data, for a minimum of 5 consecutive years, within the five year period immediately prior to the milestone completion date.<br>13.4 Where the surface water quality at the downstream site exceeds the upstream site result, an AQP must complete:<br>a. an assessment to determine if the exceedance is a result of a rehabilitation area: and<br>b. where the assessment under a) verifies that the exceedance is a result of a rehabilitation area:<br>i. If there is no or a low risk to achieving a stable condition, then no further action is to be taken;<br>or |

| | | |
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| | | ii. If there is a risk greater than low to achieving a stable condition, then an assessment of potential environmental harm, and any changes or rectification actions to rehabilitation activities must be determined and implemented.<br>iii. can only be triggered 3 times over 5 consecutive years prior to surrender.<br>13.5 If the above condition is triggered, the relevant 5-year timeframe is reset.<br>13.6 The assessments must be completed and provided to the administering authority within 3 months of receiving the relevant sampling results. |

# 5 PART 3: Maps

The following two maps must be included in the application and will form part of the approved PRCP Schedule (see PRCP Guideline (ESR/2019/4964) for examples). Attach the maps to the application as high-resolution jpeg files.

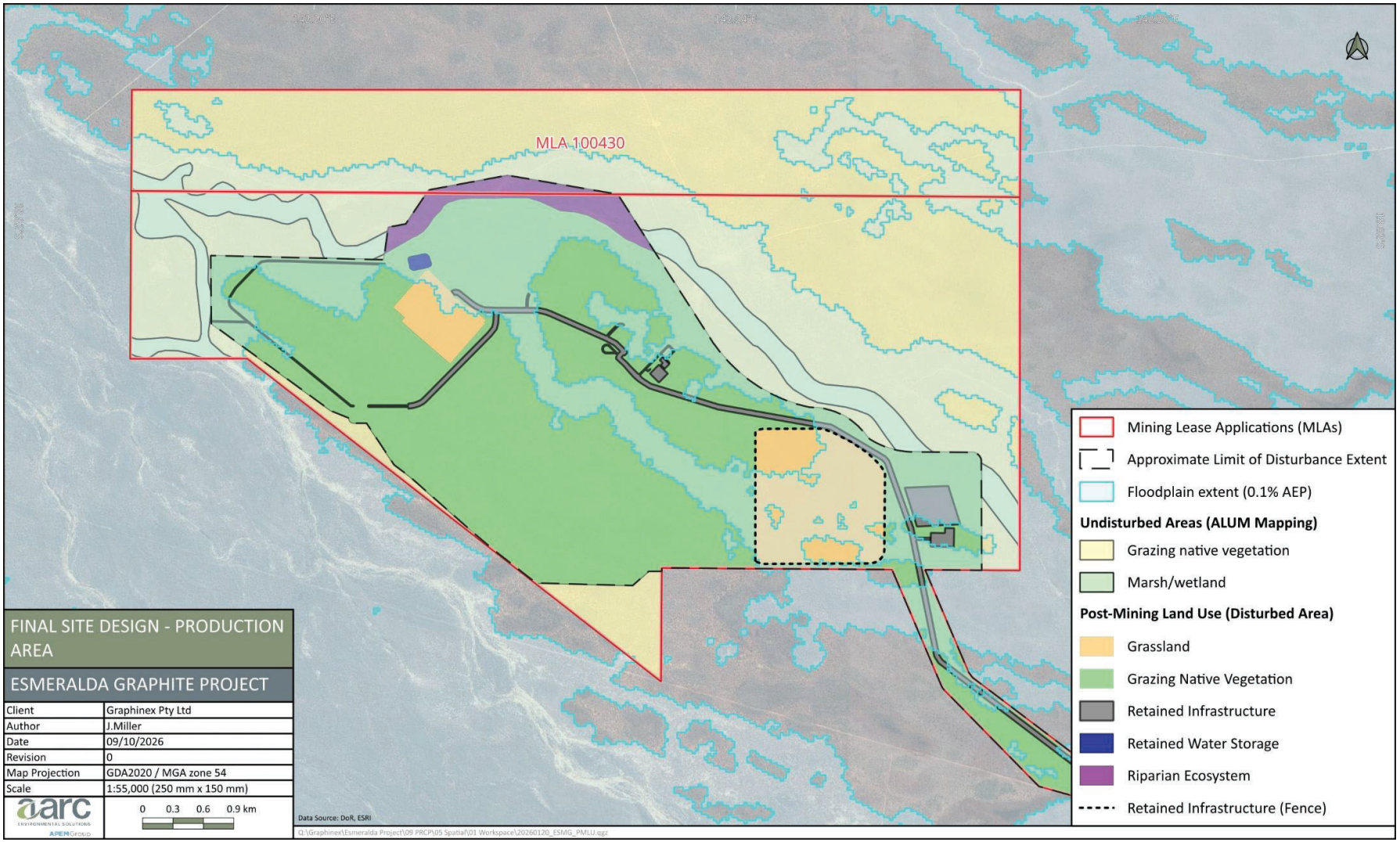
# 6 Final site design

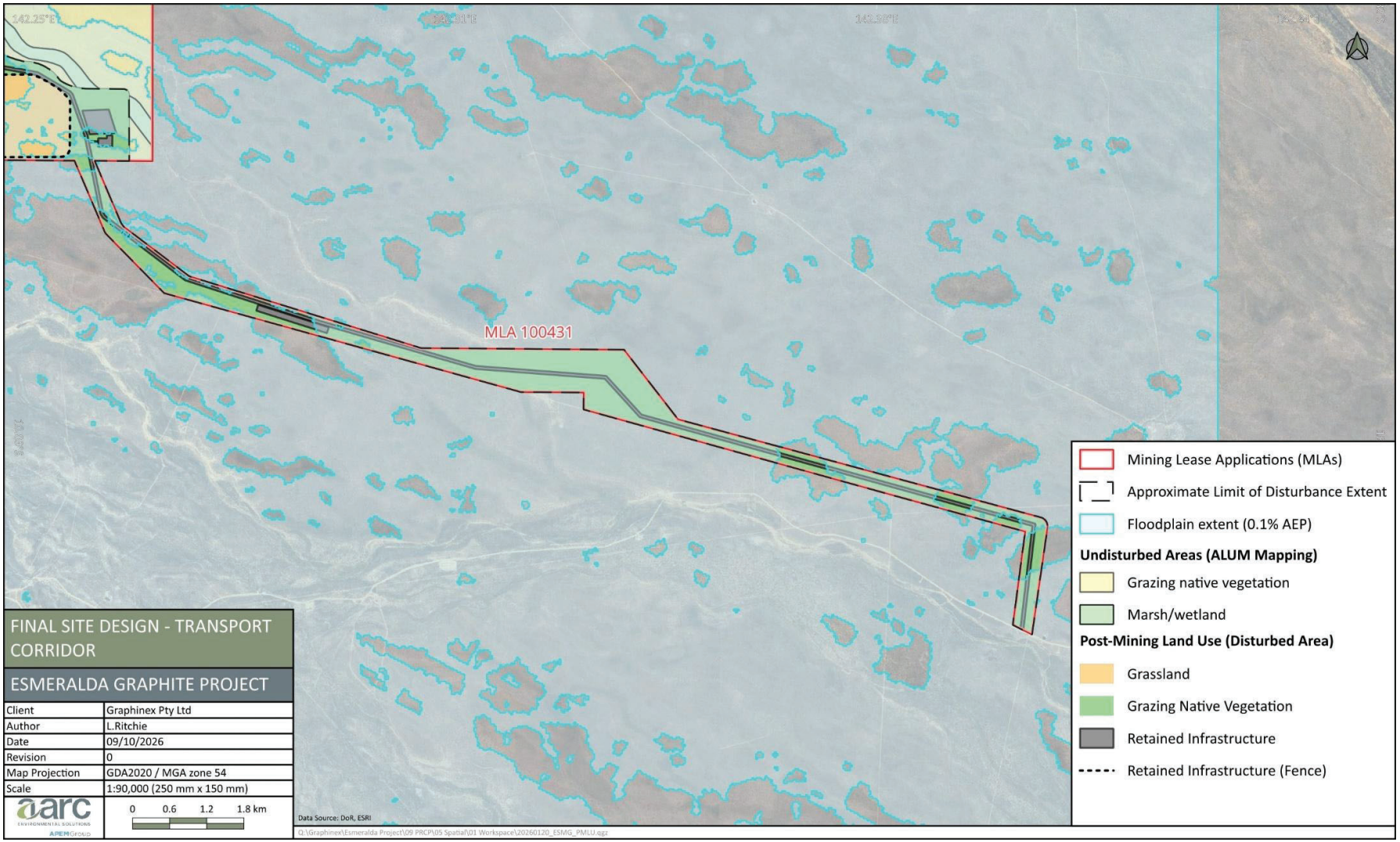
A final site design has the purpose of showing the community what the site will look like post surrender, and must depict:

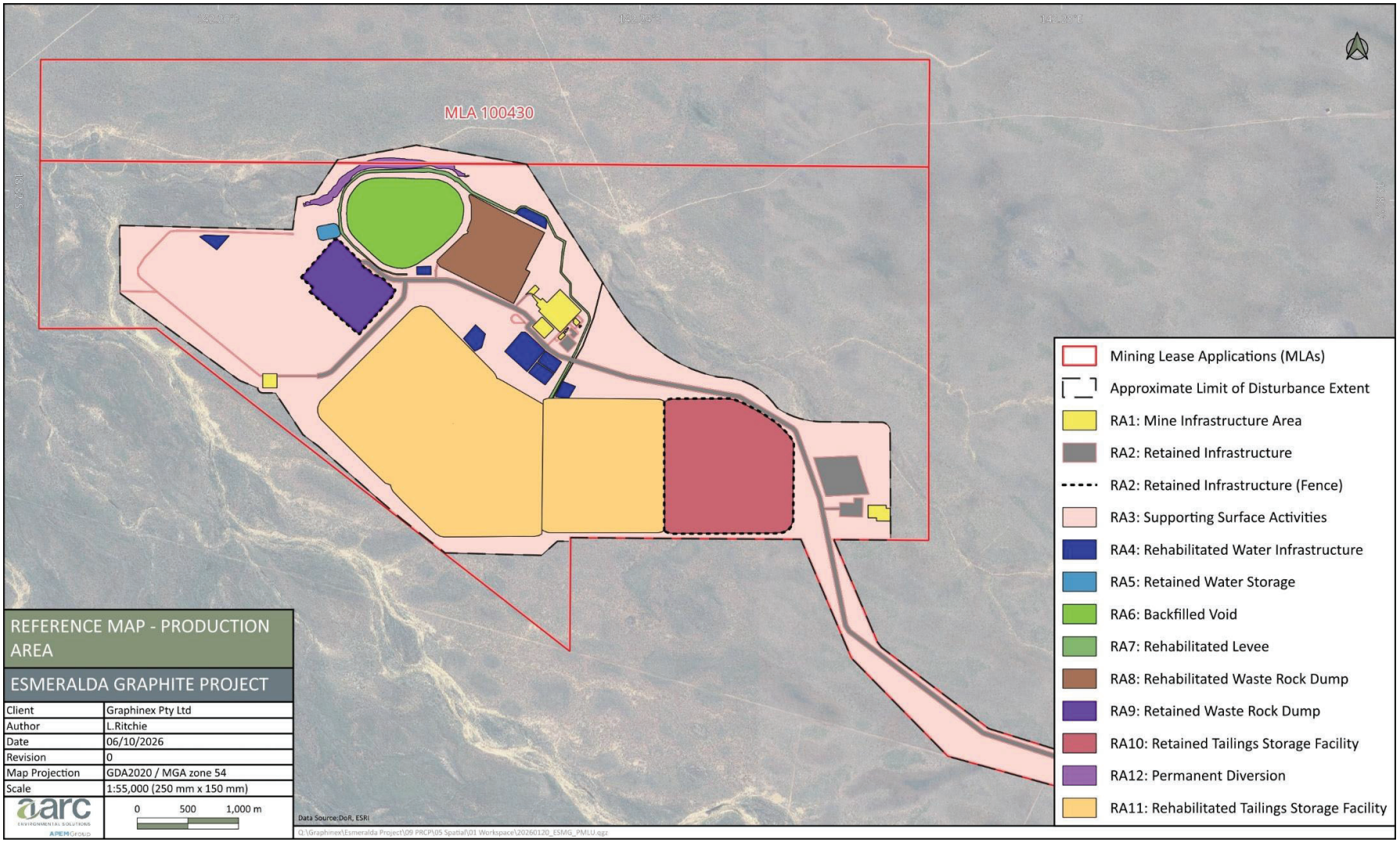
- All Post Mining Land Uses (PMLU) and Non-Use Management Areas (NUMA) for all land within the relevant resource tenures, including undisturbed land
- Maximum disturbance footprint
- Resource tenure boundaries
- Floodplain extent (if relevant).

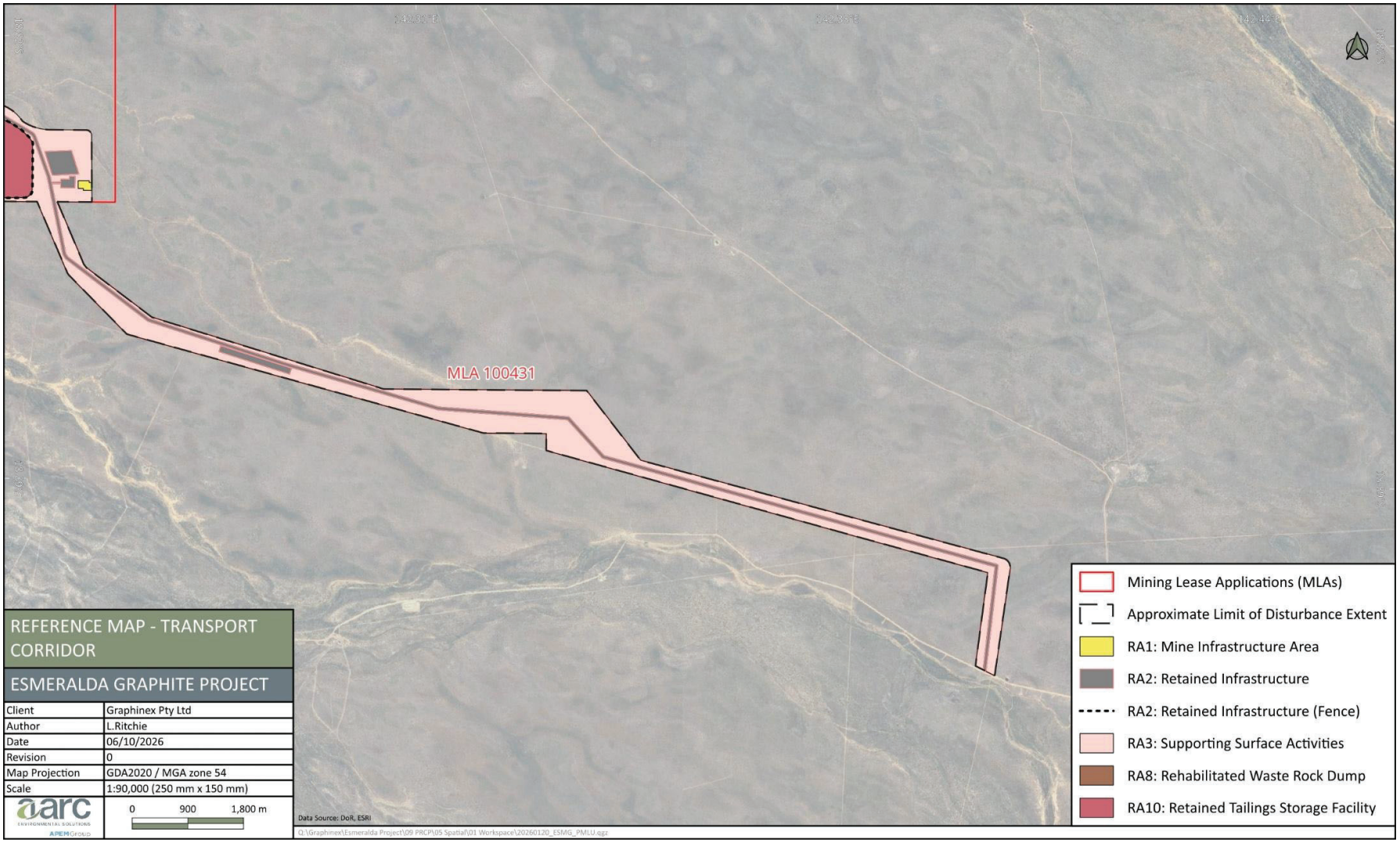
# 7 Reference map(s)

Reference map(s) have the purpose of showing the boundary of each rehabilitation area (for PMLUs) and improvement area (for NUMAs). Reference maps may contain more than one rehabilitation area/improvement area and must be to a scale that allows for easy interpretation. Only areas of disturbance need to be included on these reference maps.


MLA 100430
Mining Lease Applications (MLAs)
Approximate Limit of Disturbance Extent
Floodplain extent (0.1% AEP)
Undisturbed Areas (ALUM Mapping)
Grazing native vegetation
Marsh/wetland
Post-Mining Land Use (Disturbed Area)
Grassland
Grazing Native Vegetation
Retained Infrastructure
Retained Water Storage
Riparian Ecosystem
Retained Infrastructure (Fence)
FINAL SITE DESIGN - PRODUCTION AREA
ESMERALDA GRAPHITE PROJECT
Client Graphinex Pty Ltd
Author J.Miller
Date 09/10/2026
Revision 0
Map Projection GDA2020 / MGA zone 54
Scale 1:55,000 (250 mm x 150 mm)
0 0.3 0.6 0.9 km
Data Source: DoR, ESRI


MLA 100431
Mining Lease Applications (MLAs)
Approximate Limit of Disturbance Extent
Floodplain extent (0.1% AEP)
Undisturbed Areas (ALUM Mapping)
Grazing native vegetation
Marsh/wetland
Post-Mining Land Use (Disturbed Area)
Grassland
Grazing Native Vegetation
Retained Infrastructure
Retained Infrastructure (Fence)
FINAL SITE DESIGN - TRANSPORT CORRIDOR
ESMERALDA GRAPHITE PROJECT
Client Graphinex Pty Ltd
Author L.Ritchie
Date 09/10/2026
Revision 0
Map Projection GDA2020 / MGA zone 54
Scale 1:90,000 (250 mm x 150 mm)
0 0.6 1.2 1.8 km
Data Source: DoR, ESRI


MLA 100430
Mining Lease Applications (MLAs)
Approximate Limit of Disturbance Extent
RA1: Mine Infrastructure Area
RA2: Retained Infrastructure
RA2: Retained Infrastructure (Fence)
RA3: Supporting Surface Activities
RA4: Rehabilitated Water Infrastructure
RA5: Retained Water Storage
RA6: Backfilled Void
RA7: Rehabilitated Levee
RA8: Rehabilitated Waste Rock Dump
RA9: Retained Waste Rock Dump
RA10: Retained Tailings Storage Facility
RA12: Permanent Diversion
RA11: Rehabilitated Tailings Storage Facility
REFERENCE MAP - PRODUCTION AREA
ESMERALDA GRAPHITE PROJECT
Client Graphinex Pty Ltd
Author L.Ritchie
Date 06/10/2026
Revision 0
Map Projection GDA2020 / MGA zone 54
Scale 1:55,000 (250 mm x 150 mm)
0 500 1,000 m
Data Source:DoR, ESRI


MLA 100431
REFERENCE MAP - TRANSPORT CORRIDOR
ESMERALDA GRAPHITE PROJECT
Client Graphinex Pty Ltd
Author L.Ritchie
Date 06/10/2026
Revision 0
Map Projection GDA2020 / MGA zone 54
Scale 1:90,000 (250 mm x 150 mm)
0 900 1,800 m
Data Source: DoR, ESRI
Mining Lease Applications (MLAs)
Approximate Limit of Disturbance Extent
RA1: Mine Infrastructure Area
RA2: Retained Infrastructure
RA2: Retained Infrastructure (Fence)
RA3: Supporting Surface Activities
RA8: Rehabilitated Waste Rock Dump
RA10: Retained Tailings Storage Facility