



Department of **Energy, Mines,  
Industry Regulation and Safety**

**DRAFT**

# Mining Development and Closure Proposal for Small Mining Operations

March 2024

This is the **draft** pro forma template for the submission of a Mining Development and Closure Proposal for small mining operations.

DEMIRS considers a small mining operation to be defined as:

1. scraping and detecting, including dry processing; and/or
2. excavations no larger than 40,000 m<sup>3</sup>; and/or
3. activities required to support small mining operations (e.g., camp, laydown, processing area).

DEMIRS generally considers that a small mining operation does not involve:

1. the mining of uranium, mineral sands, or rare earth elements; and/or
2. excavations that intersect groundwater; and/or
3. permanent landforms above the natural surface; and/or
4. amendments to sites or projects that are not considered small mining operations.

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# Draft Mining Development and Closure Proposal for Small Mining Operations

1. COVER PAGE		
<b>Project Title:</b> <i>Click or tap here to enter text.</i>		
<b>Site Name:</b> <i>Click or tap here to enter text.</i>	<b>Site Code:</b> <i>Click or tap here to enter text.</i>	
<b>Operator(s):</b> <i>Click or tap here to enter text.</i>		
<b>Contact Name:</b> <i>Click or tap here to enter text.</i>		
<b>Address:</b> <i>Click or tap here to enter text.</i>		
<b>Phone:</b> <i>Click or tap here to enter text.</i>	<b>Email:</b> <i>Click or tap here to enter text.</i>	
<b>Date:</b> <i>Click or tap here to enter text.</i>		
<b>Tenement</b>	<b>Tenement Holder</b>	
<i>e.g. M20/1234</i>	<i>e.g. ACME Gold Co.</i>	
<b>Are you the registered tenement holder for all tenements?</b> <i>If no, attach written authorisation from the tenement holder.</i>	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>

2. PROPOSAL DESCRIPTION	
<b>2.1 Describe the activities proposed:</b> <i>Enter a written description of the activities for which approval is sought in the box below</i>	
<b>2.2 Estimated commencement date:</b>	
<b>2.3 Estimated completion date:</b>	
<b>2.4 Mineral(s) to be mined:</b>	
<b>2.5 Details of excavations, including maximum number, length, width, and depth (in metres) (if none mark "N/A"):</b> <i>Enter details in the box below</i>	

2.6 Confirmation excavations will not encounter groundwater.			Yes <input type="checkbox"/>
2.7 Details of scrape and detect, including maximum number, length, width, and depth (in metres) (if none mark "N/A"): <i>Enter details in the box below</i>			
2.8 Details of supporting activities (if none mark "N/A"): <i>Enter details in the box below. This could include camps, access roads, stockpiles etc.</i>			
2.9 If supporting activities are proposed to support mining approved in a separate small operations MDCP, provide details of that MDCP including the registration ID (if none mark "N/A"): <i>Enter details in the box below</i>			
2.10 Maximum tonnes of material disturbed:			
2.11 Will any processing occur, if yes provide details in the box below:		Yes, on-site. <input type="checkbox"/>	Yes, off-site. <input type="checkbox"/>
		No. <input type="checkbox"/>	

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**2.12 Will you be utilising chemicals, explosives, cyanide or other dangerous goods? If yes please describe:**

*Enter details in the box below*

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### 3. INDICATIVE SITE LAYOUT PLAN AND ACTIVITY ENVELOPE

<p><b>A site layout plan that includes the following is required:</b></p> <ul style="list-style-type: none"> <li>an activity envelope (all activities must be contained within the envelope);</li> <li>indicative locations of all proposed and existing activities;</li> <li>tenement boundaries and labels;</li> <li>a north indication;</li> <li>a key/legend or labelling of all infrastructure and activities; and</li> <li>at an appropriate scale and resolution.</li> </ul> <p><b>Spatial data (shapefiles) showing the activity envelope are also acceptable, noting that an indicative site layout plan is still required.</b></p>	<p><b>Yes</b></p> <p><input type="checkbox"/></p>
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### 4. ACTIVITY DETAILS TABLE

**Enter detail in the table below. Provide the maximum area for each activity, per tenement.**

	Tenement(s)		
<b>Activity Type</b>	<b>M01/01</b>		
Scrape and detecting	5 ha		
Campsite	0.2 ha		
<b>TOTAL (ha)</b>	<b>5.2 ha</b>		

## 5. LEGISLATIVE FRAMEWORK

<p><b>Does the project have or require any other environmental approvals?</b>  <i>(common examples include Clearing Permits and water licences from the Department of Water and Environmental Regulation)</i></p> <p><b>If yes, enter details in the box below:</b></p>	<p><b>Yes.</b></p> <p><input type="checkbox"/></p>	<p><b>No.</b></p> <p><input type="checkbox"/></p>

## 6. LAND USE AND STAKEHOLDER ENGAGEMENT

**6.1 Describe the underlying tenure (e.g. Unallocated Crown Land, Pastoral lease, etc.) and any pre-mining land use(s)?**  
*Enter details in the box below*

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<p><b>6.2 Is the underlying / pre-existing land use expected to change after the completion of mining?</b></p>	<p><b>Yes</b></p> <p><input type="checkbox"/></p>	<p><b>No</b></p> <p><input type="checkbox"/></p>
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**6.3 If yes at 6.2, describe the changed post-mining land use. Note: if the underlying / pre-existing land use is expected to change after completion of mining then engagement is expected to be conducted with the relevant stakeholders, especially the proposed post-mining landowners.**  
*Enter details in the box below*

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**6.4 Details of stakeholder engagement - complete the table below. List the key stakeholders affected by the project and describe the engagement undertaken to date.**

Engagement must be two-way, with stakeholders provided an opportunity to comment on the project. Discussion topics should include [as a minimum] key operational requirements, access/haulage routes, infrastructure required, the post mining land use and closure outcomes. Common examples of key stakeholders include pastoral lease holder, Traditional Owners/Native Title Group or Department of Biodiversity, Conservation and Attractions (where located within DBCA managed land).

Date of engagement	Stakeholder	Description of items discussed	Stakeholder comments or issues raised	Applicant response and/or resolution
12/12/2023	Pastoralist John Smith	Proposed scrape and detecting operations	Activities not to impact pastoral dam	Scrape and detect areas not to be within 400 m of

				dam.

6.5 Details of ongoing stakeholder engagement strategy – complete the table below. List the key stakeholders and detail when and how they will be consulted throughout the life of mine.

Stakeholder	Timeframe for engagement	Description of items to be discussed
Pastoralist John Smith	6 months prior to closure	Rehabilitation and Closure requirements.

## 7. BASELINE DATA AND RISK ASSESSMENT

### 7.1. Land and Soil

**7.1.1 Existing status**

Describe the existing site in relation to land and soil in the box below. Consideration for soil should include the types of soil occurring in the project area and the availability of topsoil for rehabilitation. Material characterisation of subsurface materials and mining waste should be described where relevant.

### 7.1.2 Potential impacts from proposed activities

Select all potential environmental impacts on land and soil that apply to the proposed activities. Where an environmental impact relevant to the proposed activities is not listed please select "other" and describe the potential impact.

- Soil erosion
- Limited topsoil for rehabilitation
- Dust generation
- Contamination of topsoil from adverse subsurface material
- Hydrocarbon spills
- Other... (describe below)

### 7.1.3 Management / controls

Select all relevant management measures and controls you will implement to address the impacts and risks above. Where a management measure is not listed please select "other" and describe the management measure to be implemented.

- All excavations will be backfilled and/or closed to ensure they are stable and safe.
- Topsoil and vegetation to be removed ahead of mining operations and appropriately stockpiled for later respreading or immediately respread as rehabilitation progresses.
- All rubbish and waste will be appropriately managed and disposed.
- All hydrocarbon spills or chemical spills will be contained and cleaned up within a timely manner.
- Practicable measures (e.g. water carts) will be implemented to prevent or minimise the generation of dust.
- All chemicals and hydrocarbons will be stored in appropriately bunded containers and removed from site prior to or at the termination of the operation.
- Scrape and detecting and dry blowing operations are to be progressively rehabilitated so that no more than two hectares will be open (meaning disturbed without rehabilitation works being completed) at any one time.
- Other... (Describe below)

### 7.1.4 Environmental outcomes

Please note, the below environmental outcomes may be recorded on the Approvals Statement if this MDCP is approved.

1. Mined/processed materials managed to ensure any seepage and drainage is contained/controlled so that environmental values are protected.

2. All environmentally hazardous chemicals, rubbish and materials are removed from site or stored in a manner that prevents detrimental impacts to the surrounding environment.
3. Mined/processed materials managed to be safe and geotechnically stable.
4. Mining activities are managed to prevent erosion and sedimentation having detrimental impacts to the surrounding environment.
5. Mining activities managed to prevent the inundation of soil.
6. All suitable topsoil and other growth medium or rehabilitation resources being harvested, preserved and maintained for use in rehabilitation.

**7.1.5 Describe any objections or comments you have to the above environmental outcomes in the box below.**

## 7.2 Water resources

### 7.2.1 Existing status

Describe the existing site in relation to surface water in the box below. Consideration for surface water should include (where relevant) a description of any surface water features, water catchment areas, environmental value and beneficial uses of surface water, water quality and flooding characteristics of the project area.

### 7.2.2 Impacts from proposed activities

Select all potential environmental impacts on surface water that apply to the proposed activities. Where an environmental impact relevant to the proposed activities is not listed please select "other" and describe the potential impact.

- Contamination of surface water
- Altered / blocked / restricted surface water flows.
- Altered flooding regimes caused by mining infrastructure / landforms.
- Other... (describe below)

### 7.2.3 Management / controls

Select all relevant management measures and controls you will implement to address the impacts and risks above. Where a management measure is not listed please select "other" and describe the management measure to be implemented.

- Water storage dams / containers will be appropriately lined / bunded.
- Soil and material stockpiles will be sited appropriately to minimise run-off and sedimentation.
- Disturbance within and next to waterways will be avoided where practicable.
- Other... (describe below)

### 7.1.4 Environmental outcomes

Please note the below environmental outcomes may be recorded on the Approvals Statement if this MDCP is approved.

7. No contamination of surface water as a result of mining activities.
8. Hydrological and ecological function of surface water features are managed to prevent detrimental impact upon the surrounding environment and/or land uses.

### 7.2.5 Describe any objections or comments you have to the above Environmental Outcomes in the box below.

## 7.3 Biodiversity – Fauna, Flora, Vegetation

### 7.3.1 Existing status

Describe the existing site in relation to biodiversity in the box below. Describe the diversity and condition of flora, vegetation and fauna habitat at the project. Detail any conservations significant fauna, priority and threatened flora which has been identified with in the project area. Provide summaries of any desktop or field studies which have been undertaken.

### 7.3.2 Impacts from proposed activities

Select all potential environmental impacts on biodiversity that apply to the proposed activities. Where an environmental impact relevant to the proposed activities is not listed please select “other” and describe the potential impact.

- Death of fauna
- Loss of conservation significant fauna habitat
- Loss of conservation significant flora
- Vegetation clearing outside approved areas.
- Other... (describe below)

### 7.3.3 Management / controls

Select all relevant management measures and controls you will implement to address the impacts and risks above. Where a management measure is not listed please select "other" and describe the management measure to be implemented.

- Approval boundaries will be marked using an appropriate method (flagging, geo-fence etc).
- Clearing of large, mature trees will be avoided, where practicable.
- The development and operation of the project being carried out in such a manner so as to create the minimum practicable disturbance to the existing native vegetation and natural landform.
- Reasonable and practicable measures will be taken to prevent the spread of dieback and weeds.
- All excavations have appropriate fauna egress.
- Other... (describe below)

### 7.3.4 Environmental outcomes

Please note the below environmental outcomes may be recorded on the Approvals Statement if this MDCP is approved.

9. Mining activities undertaken in a manner that prevent all direct and indirect impacts to native vegetation outside of the activity envelope.
10. Mining activities undertaken in a manner that minimises all direct and indirect impacts to vegetation inside of the activity envelope.
11. Mining activities undertaken in a manner that prevent all direct and indirect impacts to native fauna outside of the activity envelope.
12. Prevention of avoidable death or injury to native fauna from mining related activities.
13. No increase in the diversity, distribution, and population of weed species and pathogens within the tenement(s) or surrounding land, as a result of mining activities.
14. No increase in the diversity or population of introduced animal species within the tenement(s) or surrounding land, as a result of mining activities.

**7.3.5 Describe any objections or comments you have to the above environmental outcomes in the box below.**

## 8. CLOSURE IMPLEMENTATION AND CLOSURE OUTCOMES

**8.1 Describe the rehabilitation works program that will be implemented for each mine activity (e.g. scrape & detect areas, costeans, infrastructure, etc):**

**8.2 Closure Outcomes**

Please note the below closure outcomes may be recorded on the Approvals Statement if this MDCP is approved.

- 15. Constructed landforms are physically and geotechnically stable, to minimise erosion and to support revegetation and/or the post mining land use.
- 16. The placement of mined materials/infrastructure in relation to excavations will be such that the final footprint after rehabilitation is not located within the pit zone of instability.
- 17. Constructed landforms will consider visual amenity and local topography.
- 18. Constructed landforms are geochemically stable and will not cause pollution or contamination.
- 19. All contaminating materials have been removed, treated or managed in a manner consistent with the final land use requirements.
- 20. Surface drainage patterns, flows and characteristics are reinstated and are consistent with the regional drainage function and/or post mining land use.
- 21. Rehabilitated land is consistent with agreed reference vegetation communities and/or with the post-mining land use.
- 22. Rehabilitated areas provide habitat for native fauna, indicative of the target ecosystem and post-mining land use.
- 23. The rehabilitated ecosystem has function and resilience indicative of the target ecosystem and post-mining land use.
- 24. The disturbed mining environment is made safe to humans and animals.
- 25. All underground workings are managed and closed to ensure long-term ground stability and prevent ground subsidence
- 26. No infrastructure left on site unless agreed to post-mining land managers/owners.

**8.3 Describe the monitoring that will be undertaken and used to demonstrate you have met the closure outcomes in section 8.2 (include details of monitoring type and frequency).**

*Enter details in the box below*

**8.4 Describe the rehabilitation and closure actions that will occur if the mining operation unexpectedly ceases, enters a period of temporary suspension, or care & maintenance (e.g., excavations backfilled/made safe and hydrocarbons and chemical removed from site).**

*Enter details in the box below*

## 9. Attachments

9.1 List any attachments included with the application in the box below (reports, photographs, maps, etc.).

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