



Government of **Western Australia**  
Department of **Mines, Industry Regulation and Safety**

**STATUTORY**

# Statutory Guidelines for Mining Proposals

*Mining Act 1978*

Version 3.0

Effective from 3 March 2020

## Document Hierarchy for mining proposals under the *Mining Act 1978*

Legislation	<i>Mining Act 1978</i>
Statutory Documents	<b>This Document</b>
Policy	Environmental Regulatory Strategy Environmental Objectives Policy for Mining
Guidelines	Mining Proposal Guidance – How to Prepare in accordance with Part 1 of “Statutory Guidelines for Mining Proposals”
Procedures	Environmental Applications Administrative Procedures

## Version History

Version	Date	Changes
1.0	2006	Initial Publication
2.0	2016	Initial Publication of Risk and Outcomes based Mining Proposal Guideline
3.0	2020	Statutory requirements and guidance material published into separate documents.

## PURPOSE

This document is the guideline approved by the Director General, Department of Mines, Industry Regulation and Safety on 31 January 2020 under section 700 of the *Mining Act 1978* identifying the form and content of information required in a mining proposal. This Guideline takes effect from 3 March 2020 and supersedes the *Guidelines for Mining Proposals in Western Australia* published 2016 and the *Guideline for Mining Proposals in Western Australia* published 2006.

## OPERATION

This Guideline takes effect from 3 March 2020.

## FORM AND CONTENT OF A MINING PROPOSAL

The **Part 1** form and content **must** be used for all mining proposals, except if the proposed activities on the tenement(s) are considered to be a small mining operation (see Part 2).

The **Part 2** form and content **may** be used for mining proposals if the proposed activities on the tenement(s) are considered to be small mining operations.

To be considered small mining operations for the purposes of these guidelines:

1. The activities **must not** be for the mining of uranium, mineral sands or rare earth elements; and
2. The activities **must** be limited to the following activities:
  - a. Scraping and detecting.
  - b. Dry blowing.
  - c. The following activities for a total footprint in the mining proposal of 10 hectares (ha) or less:
    - i. Mining excavations (pits, costeans, quarries, shafts, winzes, harvesting, dredging), leaching operations and tailing treatment operations.
    - ii. Any construction activities incidental or conducive to the activities including plant, tailings storage facilities and overburden dumps.

The form and content requirements for each Part are set out below.

## **PART 1: Mining Proposals**

The mining proposal must be in the following form and contain the following information.

### **1. Cover Page(s)**

The mining proposal cover page(s) must include:

- title;
- revision and version numbers;
- date;
- tenement(s); and
- tenement holder or authorised company/person.

### **2. Tenement holder authorisation**

If the mining proposal is submitted by a person other than the tenement holder(s), then it must include authorisation from all tenement holders.

### **3. Environmental Group Site details**

The mining proposal must include:

- site name and code (environmental group site name and code from EARS2 system or note if this is a new site);
- description of mining operation;
- phase of mining;
- commodity mined;
- estimated commencement and completion dates;
- tenement(s);
- tenement holder(s) or authorised person (if applicable);
- ACN/ABN;
- address; and
- key contact representative (name, position, phone number and email address).

### **4. Proposal Description**

The mining proposal must include a description of the mining activities that are the subject of the proposal and how the mine will operate.

### **5. Activity Details (Appendix 1)**

The mining proposal must include activity details as detailed below and be in the form of the table at Appendix 1:

- A table of all proposed activities for each tenement.
- Each activity must have a description of its infrastructure or land (activity type) as defined in Schedule 1 of the Mining Rehabilitation Fund Regulations 2013 and a mine activity reference.
- For all Key Mine Activities listed below, a table that includes the proposed area (ha), current approved area (ha) (if applicable) and total area (ha) must be provided per tenement for each individual activity:
  - Dam – saline water or process liquor
  - Evaporation pond
  - Heap or vat leach facility
  - Low-grade ore stockpile (class 1)
  - Mining void (depth greater than 5m – above groundwater)
  - Mining void (depth greater than 5m – below groundwater)
  - Plant site
  - Run-of-mine pad

- Tailings or residue storage facility (class 1)
- Tailings or residue storage facility (class 2)
- Waste dump or overburden stockpile (class 1)
- Waste dump or overburden stockpile (class 2)
- For all other activity types (not included in the list of Key Mine Activities) a consolidated total for the proposed area (ha), current approved area (ha) (if applicable) and total area (ha) must be provided per tenement.
- For each tenement a total proposed area (ha), total current approved area (ha), and total area (ha) for all activities must be provided.
- For the mining proposal, a consolidated total proposed area (ha), total current approved area (ha) and total area (ha) for all tenements must be provided.

### 5.1 Additional Detail for Key Mine Activities (Appendix 2)

The additional details below must be provided for any Key Mine Activities.

For any Key Mine Activity (dam – saline water or process liquor, evaporation pond, low-grade ore stockpile (class 1), run-of-mine pad, tailings or residue storage facility and/or waste dump or overburden stockpile), the mining proposal must include the details below and be in the form of the table at Appendix 2:

- mine activity reference;
- total area (ha);
- area per tenement (ha);
- design description (including maximum height/depth); and
- materials characteristics including confirmation of any:
  - fibrous materials;
  - radioactive materials;
  - materials capable of generating acid and/or metalliferous drainage, including neutral drainage and saline drainage; and
  - dispersive and/or erosive material.

For a mining void the mining proposal must include the details below and be in the form of the table at Appendix 2:

- mine activity reference;
- total area (ha);
- area per tenement (ha);
- design description (including maximum height/depth); and
- materials characteristics including confirmation of any:
  - fibrous materials;
  - radioactive materials;
  - materials capable of generating acid and/or metalliferous drainage, including neutral drainage and saline drainage; and
  - dispersive and/or erosive material.
- confirmation whether the mining void will be backfilled.

For a heap or vat leach facility the mining proposal must include the details below and be in the form of the table at Appendix 2:

- mine activity reference;
- total area (ha);

- area per tenement (ha);
- design description;
- materials characteristics; and
- process chemicals used.

For a plant site the mining proposal must include the details below and be in the form of the table at Appendix 2:

- mine activity reference;
- total area (ha);
- area per tenement (ha);
- type/design.

### **5.2 Disturbance envelope**

The mining proposal must include a disturbance envelope within which all activities will be contained, showing relevant tenement boundaries, tenement labels, and GDA (geographic latitude/longitude) coordinates. This must be provided as a figure(s) in the mining proposal and in an ESRI shape file.

The mining proposal must include coordinates in the current GDA format delineating the boundary of the disturbance envelope.

### **5.3 Site Plan**

The mining proposal must include an indicative map of the proposed layout of the mine activities in relation to the disturbance envelope and tenement boundaries.

The site plan must include:

- all proposed and existing activities;
- tenement boundaries and labels;
- a north indication; and
- a legend or labelling of all activities.

### **5.4 Tailings Storage Facilities**

If a tailing storage facility (TSF) is proposed the mining proposal must include design report(s).

## **6. Environmental Legislative Framework**

The mining proposal must include a list of environmental approvals, other than under the *Mining Act 1978*, that have been sought or are required before the proposal may be implemented and any specific statutory requirements that will affect the environmental management of the site.

## **7. Stakeholder Engagement**

The mining proposal must include information on the engagement that has been undertaken with stakeholders, a record of the engagement undertaken to date and include a strategy for ongoing engagement.

## **8. Baseline Environmental Data**

The mining proposal must describe the existing environment in which the site is located, including any natural (biological/physical) values and sensitivities and heritage areas that may be affected by the activities. This section must include a description of the baseline data covering the below environmental aspects as well as analysis and interpretation of the baseline data.

This section must cover the following environmental aspects:

- climate
- landscape
- materials characterisation
  - soils
  - geochemical and physical characteristics of subsurface materials and mining waste

- biodiversity
- hydrology (including surface water and groundwater)
- heritage
- environmental threats.

Where environmental surveys or analysis has been undertaken the findings must be summarised in the mining proposal and all relevant technical reports must be attached as appendices.

### **9. Environmental Risk Assessment**

The mining proposal must include an environmental risk assessment that:

- identifies all the environmental risk pathways affecting DMIRS Environmental Factors across all phases of the mine life and that may arise from unexpected or emergency conditions;
- includes an analysis of these risks to derive an inherent risk rating, prior to the application of treatments;
- identifies appropriate risk treatments;
- includes an evaluation of the risk pathways to derive a residual risk rating; and
- demonstrates that all residual risks are as low as reasonably practicable (ALARP).

The mining proposal must provide information on the processes and methodologies undertaken to identify the environmental risk pathways and their potential environmental impacts, including a description of the risk assessment criteria and risk evaluation techniques.

### **10. Environmental Outcomes, Performance Criteria and Monitoring**

The mining proposal must include a table of site-specific environmental outcomes that the mining operation will achieve, along with performance criteria for each outcome. The proposal must also include a description of the monitoring that will be undertaken to measure each performance criteria.

The site-specific environmental outcomes must be provided in a table that describes the following for each individual outcome:

- Relevant DMIRS Environmental Factor
- Relevant risk pathway(s)
- Description of the environmental outcome
- Performance criteria
- Monitoring that will be completed to measure the criteria.

### **11. Environmental Management System**

The mining proposal must include a description of the management system that will be implemented to appropriately manage all environmental risks.

### **12. Mine Closure Plan**

All mining proposals must include a mine closure plan.

### **13. Expansions and/or Alterations to an Approved Mining Proposal**

In addition to the above information, revised mining proposals for the expansion and/or alteration to approved activities must also include:

- An updated document revision number to indicate that the document is a revision to a previously approved mining proposal.
- A revision summary table that clearly outlines all changes made in the revised mining proposal.

## **PART 2: Mining Proposals for Small Mining Operations**

The mining proposal must be submitted using the pro forma at Appendix 3 (Mining Proposal for Small Mining Operations) and contain the following information:

### **1. Cover Page**

The mining proposal cover page must include:

- title;
- date;
- operator(s);
- contact name and contact details; and
- tenement(s).

### **2. Tenement Holder Authorisation**

If the mining proposal is submitted by a person other than the tenement holder(s), then it must include authorisation from all tenement holders.

### **3. Scope of Works**

The mining proposal must include:

- 3.1 a description of the activities including size and scale of the mining operation proposed.
- 3.2 estimated commencement date;
- 3.3 estimated completion date;
- 3.4 mineral(s) to be mined;
- 3.5 maximum number of excavations and dimensions of excavations;
- 3.6 maximum tonnes of material mined and processed;
- 3.7 whether ore will be processed on or off-site;
  - if on-site, a description of the type of processing and maximum total throughput (t) for the life of the operation;
  - if off-site, a description of where processing will occur;
- 3.8 confirmation of whether chemicals, explosives, cyanide or other dangerous goods will be used and if so a description of these; and
- 3.9 a description of other support facilities.

### **4. Site Layout Plan**

The mining proposal must include an indicative site plan that includes:

- the location of the operation;
- all proposed and existing site activities;
- tenement boundaries and labels;
- a north indication; and
- a key or labelling of all infrastructure and activities.

### **5. Existing Environment**

The mining proposal must:

- 5.1 identify the environment in which the operation is located;
- 5.2 include a description of any previous workings;
- 5.3 confirm whether the activities will occur within Reserved Lands, and if so:
  - include a description of the Reserve; and



- confirm whether consent has been granted to access the Reserve.
- 5.4 confirm whether the activities will occur in a Public Drinking Water Source Area and if so:
- confirm that consultation with the Department of Water and Environmental Regulation has been undertaken; and
  - include any specific management actions that will be undertaken regarding Public Drinking Water Source Areas.
- 5.5 confirm whether the activities will occur in an Environmentally Sensitive Area;
- 5.6 confirm whether any conservation significant flora or fauna have been identified that will be impacted by the proposed activities, and if so:
- include a description of any additional flora and/or fauna surveys conducted and attach any relevant documents as appendices.
  - include a description of how the impacts to conservation significant flora or fauna will be managed.

## **6. Area of Disturbance**

The mining proposal must include an area of disturbance table for each tenement that includes the tenement number, description of mining disturbances, disturbance area (ha) for each activity, and total area to be disturbed.

## **7. Waste Rock/Tailings/Mine Waste Management**

The mining proposal must:

- 7.1 confirm whether waste rock or tailings will be generated;
- 7.2 confirm whether waste rock will be stockpiled as a permanent landform;
- 7.3 confirm whether waste rock/overburden will be backfilled into excavations or stockpiled as a permanent landform.
- 7.4 provide a description of any problematic materials present in the waste rock, tailings and/or material to be leached.
- 7.5 confirm whether a heap/vat leach is proposed, and if so describe the heap/vat leach.
- 7.6 if proposed, provide a description and a diagram of the landform design and attach any relevant design reports.

## **8. Dust/Noise**

The mining proposal must include confirmation regarding whether dust/noise is likely to affect any sensitive receptors nearby, and if so what management measures will be undertaken.

## **9. Water**

The mining proposal must:

- 9.1 identify whether water is required for operations, and if so:
  - include a description of the purpose for which water is required;
  - confirm where water will be obtained from.
- 9.2 confirm whether dewatering is required, and if so include a description of the:
  - volume to be extracted
  - water quality
  - how the water will be managed.
- 9.3 confirm whether the proposed activity involves disturbing the beds and/or banks of a watercourse;
- 9.4 if water is being used, include a description of the quantity and quality of the water;
- 9.5 if water is being used, confirm how it will be stored and utilised on site, including the dimensions of any dams/turkeys nests.

## **10. Land Use and Stakeholder Engagement**

The mining proposal must:

- 10.1 include a description of the underlying and/or pre-existing land uses of the area.
- 10.2 if the activities are on a pastoral lease, confirm that the pastoralist has been notified.
- 10.3 for stakeholders that will be affected by the proposed operation, list those stakeholders and any engagement undertaken to date including any issues raised.
- 10.4 confirm that an enquiry/search of the Department of Planning, Lands and Heritage (DPLH) Aboriginal Heritage Inquiry System has been completed.
- 10.5 identify any places or objects of heritage significance and confirm whether any impact to these places or objects is proposed.

## **11. Environmental Management Commitments**

The mining proposal must include any objections to the environmental management tenement conditions that will be imposed; and if so any proposed alternative management commitments if the mining proposal is approved.

## **12. Mine Closure Plan**

All mining proposals must include a mine closure plan.

## APPENDIX 1. ACTIVITY DETAILS

A table of activities must be provided for each tenement in the format below.

Tenement				
Activity Type	Mine Activity Reference	Proposed area (Ha)	Current Approved Area (Ha) (if applicable)	Total Area (Ha) (Proposed area + Current Approved Area)
<b>Key Mine Activities</b>				
Dam – saline water or process liquor				
Evaporation pond				
Heap or / vat leach facility				
Low-grade ore stockpile (class 1)				
Mining void (depth greater than 5m – above groundwater)				
Mining void (depth greater than 5m – below ground water)				
Plant site				
Run-of-mine pad				
Tailings or residue storage facility (class 1)				
Tailings or residue storage facility (class 2)				
Waste dump or overburden stockpile (class 1)				
Waste dump or overburden stockpile (class 2)				
<b>Other Mine Activities</b>				
		Footprints not required for each other mine activity type.		
<b>Other Mine Activity Area (not including Key Mine Activities)</b>				
<b>TOTAL TENEMENT ACTIVITY AREA</b>				
<b>TOTAL MINE ACTIVITY AREA<sup>1</sup></b>				

<sup>1</sup> Include total combined area of all activities on all tenements. This total may be within a larger disturbance envelope.

## APPENDIX 2. KEY MINE ACTIVITIES

For each of the following Key Mine Activities, the mining proposal must include the details below in the form of the below table:

- Tailings or residue storage facility
- Waste dump or overburden stockpile
- Evaporation pond
- Dam – saline water or process liquor
- Low-Grade Ore Stockpile (class 1)
- Run-of-mine pad.

<b>Activity Type</b>	<ul style="list-style-type: none"> <li>• Tailings or residue storage facility</li> <li>• Waste dump or overburden stockpile</li> <li>• Evaporation pond</li> <li>• Dam – saline water or process liquor</li> <li>• Low-Grade Ore Stockpile (class 1)</li> <li>• Run-of-mine pad</li> </ul>		
<b>Mine Activity Reference</b>			
<b>Total Area (ha)</b>			
<b>Area per tenement (ha)</b>			
<b>Design Description</b>			
<b>Material Characteristics</b>	Fibrous minerals	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Radioactive material	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Materials capable of generating acid and/or metalliferous drainage, including neutral drainage and saline drainage.	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Dispersive and/or erosive material that is capable of compromising the structure and stability of the activity.	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details

For a mining void, the mining proposal must include the details below and be in the form of the below table:

<b>Activity Type</b>	Mining Void		
<b>Mine Activity Reference</b>			
<b>Area</b>			
<b>Area per tenement</b>			
<b>Design Description</b>			
<b>Material Characteristics</b>	Fibrous minerals	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Radioactive material	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Materials capable of generating acid and metalliferous drainage, including neutral drainage and saline drainage	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Dispersive and/or erosive material that is capable of compromising the structure and stability of the pit or underground workings	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
<b>Backfill</b>	Will the mining void be backfilled?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details

For a heap/vat leach facility, the mining proposal must include the details below and be in the form of the below table:

<b>Activity Type</b>	Heap/Vat Leach Facility		
<b>Mine Activity Reference</b>			
<b>Total Area (ha)</b>			
<b>Area per tenement (ha)</b>			
<b>Design Description</b>			
<b>Process Chemicals Used</b>			
<b>Material Characteristics</b>	Fibrous minerals	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Radioactive material	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Materials capable of generating acid and/or metalliferous drainage, including neutral drainage and saline drainage	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details
	Dispersive and/or erosive material that is capable of compromising the structure and stability of the heap/vat leach.	Yes <input type="checkbox"/> No <input type="checkbox"/>	Details

For a plant site, the mining proposal must include the details below and be in the form of the below table:

<b>Activity Type</b>	Plant Site		
<b>Mine Activity Reference</b>			
<b>Total Area (ha)</b>			
<b>Area per tenement (ha)</b>			
<b>Type / Design</b>			

## APPENDIX 3

### MINING PROPOSAL FOR SMALL MINING OPERATIONS

This is the pro forma for the submission of mining proposals under Part 2 of the *Statutory Guidelines for Mining Proposals*.

To be considered small mining operations for the purposes of these guidelines:

1. The activities **must not** be for the mining of uranium, mineral sands or rare earth elements; and
2. The activities **must** be limited to the following activities:
  - a. Scraping and detecting.
  - b. Dry blowing.
  - c. The following activities for a total footprint in the mining proposal of 10 hectares (ha) or less:
    - i. Mining excavations (pits, costeans, quarries, shafts, winzes, harvesting, dredging), leaching operations and tailing treatment operations.
    - ii. Any construction activities incidental or conducive to the activities including plant, tailings storage facilities and overburden dumps.

# Mining Proposal for Small Mining Operations

## 1. COVER PAGE

<b>Project Title:</b>	<b>Tenement(s):</b>
<b>Operator(s):</b>	
<b>Contact Name:</b>	
<b>Address:</b>	
<b>Phone:</b>	<b>Email:</b>
<b>Date:</b>	

## 2. TENEMENT HOLDER AUTHORISATION

<b>Are you the registered tenement holder?</b>	<b>Yes</b>	<b>No</b>
If No, attach written authorisation from the tenement holder.		

## 3. SCOPE OF WORKS

3.1 Describe the activities proposed:			
3.2 Estimated commencement date:			
3.3 Estimated completion date:			
3.4 Mineral(s) to be mined:			
3.5 Maximum number of excavations and length, width and depth of excavations (in metres):			
3.6 Maximum tonnes of material mined and processed:			
3.7 Will ore be processed on-site or off-site?	<b>On-site</b>	<b>Off-site</b>	<b>N/A</b>
If off-site, where will processing occur?			

If on-site, please describe: <ul style="list-style-type: none"> <li>the type of processing (e.g. dry or wet gold plant, CIP plant, heap or vat leach, crushing and screening<sup>1</sup>); and</li> <li>maximum total throughput or processing volume (in tonnes) for the life of the operation:</li> </ul>	
3.8 Will you be utilising chemicals, explosives, cyanide or other dangerous goods? If yes, please describe: <sup>2</sup>	
3.9 Description of other support facilities (e.g. camp).	

#### 4. SITE LAYOUT PLAN

A site plan(s) is attached that includes: <ul style="list-style-type: none"> <li>The location of the operation.</li> <li>All proposed and existing site activities.</li> <li>Tenement boundaries and labels.</li> <li>A north indication.</li> <li>A key or labelling of all infrastructure and activities.</li> </ul>	<b>Yes</b>
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#### 5. EXISTING ENVIRONMENT

5.1 Identify the environment in which the operation is located:		
Open Scrub	Dense Scrub	
Low Scrub	Tall Scrub	
Salt Bush/Blue Bush	Spinifex Country	
Salt Lake/Marsh	Sand Dunes	
Woodland	Hilly Country	
Flat Country	Creek-Lines	
Breakaway Country		
Other (specify):		
5.2 Any previous workings (historical mines, shafts, open stopes, tailings dams, dumps, old equipment etc.)?	<b>Yes</b>	<b>No</b>
<b>If yes above</b> , describe the previous workings:		

<sup>1</sup>The Department of Water and Environmental Regulation (DWER) regulates emissions and discharges to the environment through a works approval and licensing process, under Part V of the Environmental Protection Act 1986. You will be required to obtain relevant approvals for a processing plant from DWER if you meet the relevant threshold.

<sup>2</sup>If you will be using dangerous goods, you will need to comply with Dangerous Goods Safety and Storage legislation. Contact DMIRS Mines Safety for further information ([www.dmp.wa.gov.au/Utilities/Safety-contacts-8366.aspx](http://www.dmp.wa.gov.au/Utilities/Safety-contacts-8366.aspx)).



5.3 Will the activities occur in Reserved Lands?	<b>Yes</b>	<b>No</b>
<b>If yes to 5.3</b> , identify the Reserve (e.g. Timber Reserve, Nature Reserve):		
<b>If yes to 5.3</b> , have you received consent to mine within the Reserve?	<b>Yes</b>	<b>No</b>
5.4 Will the activities occur in a Public Drinking Water Source Area? <sup>3</sup>	<b>Yes</b>	<b>No</b>
<b>If yes to 5.4</b> , confirm that you have consulted with the Department of Water and Environmental Regulation and attach relevant information.	<b>Yes</b>	<b>No</b>
<b>If yes to 5.4</b> , describe any specific management actions you will undertake to protect the Public Drinking Water Source Area		
5.5 Will the activities occur in an Environmentally Sensitive Area? <sup>4</sup>	<b>Yes</b>	<b>No</b>
5.6 Have you identified any flora or fauna of conservation significance that will be impacted by the proposed activities? <sup>5</sup>	<b>Yes</b>	<b>No</b>
<b>If yes to 5.6</b> , describe the distribution, locations and/or habitat and attach any relevant surveys as appendices.		
<b>If yes to 5.6</b> , how will the impacts to conservation significant flora or fauna be managed?		

<sup>3</sup>Public Drinking Water Source Area as proclaimed under the Metropolitan Water Supply, Sewerage and Drainage Act 1909 or the Country Areas Water Supply Act 1947

<sup>4</sup>Environmentally Sensitive Area as declared by the Minister for Environment under section 51B of the Environmental Protection Act 1986. These can be identified through the Department of Water and Environmental Regulation's Clearing Permit System – Map.

<sup>5</sup>A flora and fauna desktop enquiry/search of the project tenements can be undertaken on the Department of Biodiversity, Conservation and Attractions (DBCA) NatureMap website (link: <https://naturemap.dpaw.wa.gov.au/>). If the search identifies flora or fauna of conservation significance, then further work, including on-ground surveys, may be required. This should be discussed with the relevant DMIRS Environmental Officer.

6. AREA OF DISTURBANCE			
List the maximum area of disturbance (ha)	Tenement(s)		
<b>Activity/Disturbance Type</b> (e.g. Dryblowing, Scraping/Detecting, Pit, Plant, Waste Dump, Camp, Road, etc.)			
<b>TOTAL (ha)</b>			

7. WASTE ROCK/TAILINGS/MINE WASTE MANAGEMENT		
	Yes	No
7.1 Will any waste rock or tailings be generated as part of this proposal?		
7.2 Are you proposing to stockpile waste rock as a permanent landform?		
7.3 Will waste rock/overburden be backfilled into excavation/s?		
<b>If no to all of the above please continue at Section 8.</b>		
If <b>yes</b> to any of the above, provide the following information and include any supporting documentation as attachments.		
7.4 Provide a description of any problematic materials present in the waste rock, tailings and/or material to be leached (e.g. presence of potentially acid forming material, sodicity, salinity, dispersive potential).		
7.5 If a heap or vat leach is proposed, provide a description of the heap/vat leach facility (e.g. max. height, liner type, process chemicals used, output).		
7.6 Describe and provide a diagram of the dimensions and/or design of the waste rock landform(s), tailings storage facilities, heap leach, vat leach and/or any other landform(s) to be constructed, including maximum height, and attach any relevant design reports.		

## 8. DUST/NOISE

Is dust/noise likely to affect any sensitive receptors nearby (e.g. flora or fauna, places of residence, public road, towns/communities, etc.)?<sup>6</sup>

**Yes**

**No**

If **Yes to above**, detail dust/noise management measures:

## 9. WATER

9.1 Is water extraction required to support the mining operation?

If **No** continue at question 9.2.

**Yes**

**No**

If **yes to 9.1**, for what purpose is water extraction required (e.g. processing, dust suppression)?

If **yes to 9.1**, where will water be extracted from (e.g. surface dams, groundwater bores, artesian wells, watercourses, old shafts)?<sup>7</sup>

9.2 Is dewatering required?<sup>8</sup>

**Yes**

**No**

If **yes to 9.2**, describe the:

Volume to be extracted:

Water quality:

How the water will be managed (e.g. stored, discharged):

9.3 Does the proposed activity involve disturbing the beds and/or banks of a watercourse?

**Yes**

**No**

9.4 Describe the quality of the water (e.g. "fresh"/"brackish"/"saline"/"hypersaline") and quantity of water extracted (kilolitres/year):

9.5 Describe how the water will be stored and utilised on site. Provide the height and/or depth of any dams/turkeys nests:

<sup>6</sup> The operation will be required to comply with the requirements of the Environmental Protection (Noise) Regulations 1997.

<sup>7</sup> The construction of bores/wells and the extraction of groundwater or surface waters may require approval and licensing from the Department of Water and Environmental Regulation (DWER).

<sup>8</sup> If dewatering is required, this may also require approval and licensing from the Department of Water and Environmental Regulation (DWER).

## 10. LAND USE AND STAKEHOLDER ENGAGEMENT<sup>9</sup>

10.1 Describe the underlying and/or pre-existing land uses of the area:		
10.2 If the activities are on a pastoral lease, confirm that the pastoralist has been notified.	<b>Yes</b>	
10.3 For stakeholders that will be affected by the proposed operation, list those stakeholders and any engagement undertaken to date including any issues raised.		
10.4 Confirm that you have completed an enquiry/search of the Department of Planning, Lands and Heritage (DPLH) Aboriginal Heritage Inquiry System (link: <a href="https://maps.daa.wa.gov.au/AHIS/">https://maps.daa.wa.gov.au/AHIS/</a> ) for the area subject to this proposal.	<b>Yes</b>	
10.5 Does your proposal partly or wholly intersect the boundary of a Registered Site?  Should the proposed activities intersect with an Aboriginal heritage site, a copy of written consent or clearance from DPLH regarding the potential impact of the mining operation on the identified place or objects of heritage significance is required.	<b>Yes</b>	<b>No</b>

## 11. ENVIRONMENTAL MANAGEMENT COMMITMENTS

Please note, the following tenement conditions (where relevant) will be imposed under the *Mining Act 1978* if this mining proposal is approved. If you have any objections to any of these, please detail in section 11.1.

- Topsoil and vegetation to be removed ahead of mining operations and appropriately stockpiled for later respreading or immediately respread as rehabilitation progresses.
- All reasonable and practicable measures will be taken to prevent the spread of dieback and weeds.
- Lined storage dams will be fitted with appropriate fauna egress points to ensure that any fauna does not become entrapped.
- All rubbish and waste will be appropriately managed and disposed.
- All reasonable measures will be taken to ensure all hydrocarbons, environmentally hazardous chemicals, process water and other environmentally hazardous substances or waste are stored and managed in a manner to prevent discharges to the environment.
- All hydrocarbon spills or chemical spills will be contained and cleaned up within a timely manner.
- Clearing of large, mature trees will be avoided, where practicable.
- All activities to be undertaken so as to avoid or minimise damage, disturbance or contamination of waterways, including their beds and banks, and riparian and other water dependent vegetation.
- 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.
- The lessee taking all reasonable and practicable measures to prevent or minimise the generation of dust from mining operations.

For scrape and detecting and dry blowing operations:

- 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.

For tailings storage, heap leach and/or vat leach facilities:

- The lessee directing stormwater runoff away from areas adjacent to tailings storage, vat leach or heap leach facilities to minimise the potential for pollution or contamination of stormwater, or erosion of the facility.
- All vat leach or heap leach facilities being constructed with an appropriate liner to prevent the pollution or contamination of the natural ground, surface water or underground waters.
- All reasonable measures will be taken to construct tailings storage, vat leach or heap leach facilities in a manner to prevent discharges from the facility to the environment.

For river sand mining:

- No materials shall be extracted from below the bed load zone of the river.

<sup>9</sup> Please note that under section 20 (5) of the *Mining Act 1978* you must obtain written consent from the occupier of any Crown Land (e.g. pastoral lease holder) for any activities within 100 metres of a yard, garden, cultivated field, orchard, vineyard, plantation, airstrip, burial ground, land under crop, house, substantial occupied building; or within 400 metres of a water works, race, dam, bore.

11.1 Describe any modified or additional management commitments and/or methods of minimising disturbance that you will be implementing; or any objections you have to the above conditions:

## GLOSSARY

<b>Activity</b>	Elements of the organisations activities or products or services that can interact with the environment. These include routine and non-routine activities.
<b>Authorised company/person</b>	A company or person authorised by the tenement holder to submit a mining proposal or mine closure plan to DMIRS.
<b>Design report</b>	<p>The design report is a detailed report that presents an analysis of the background conditions and investigations undertaken when planning a tailings storage facility (TSF). The design report is expected to evaluate:</p> <ul style="list-style-type: none"> <li>• variations in the surface and sub-surface profile, and their impact on physical and engineering properties</li> <li>• specified design and operational parameters, including relevant tolerances and their impact on the integrity and performance of the TSF</li> <li>• monitoring and inspection requirements</li> <li>• the proposed closure approach to be adopted.</li> </ul> <p>For further guidance on the information expected in a design report refer to the <i>DMIRS Guide to the preparation of a design report for tailings storage facilities (TSFs)</i> (2015).</p>
<b>Disturbed</b>	Area where vegetation has been cleared and/or topsoil or surface cover removed.
<b>DMIRS Environmental Objectives</b>	The related environmental objective for each environmental factor is the desired goal that, if met, will indicate that the proposed activities are not expected to have a significant impact on that factor of the environment. These objectives are identified in the <i>Environmental Objectives Policy for Mining</i> (2020).
<b>EARS2 System</b>	EARS 2 is a DMIRS online system for submitting environmental compliance reporting. EARS 2 allows online lodgement and tracking of Annual Environmental Reports (AER) and Mining Rehabilitation Fund (MRF) reports.
<b>Environmental Factor</b>	A part of the environment that may be impacted by an activity. DMIRS Environmental Factors are defined in the Department of Mines, Industry Regulation and Safety <i>Environmental Objectives Policy for Mining</i> (2020).
<b>Environmental Group Site (EGS)</b>	A grouping of individual tenements for the purposes of further distinguishing the operations that make up a particular Project. Multiple Environmental Group Sites can be created within one Project. Each Environmental Group Site will contain a separate set of tenements that collectively will make up all the tenements for the Project.
<b>Environmental Outcome</b>	Environmental outcome is the acceptable level of impact that must not be exceeded, or a level of protection/performance/result that must be achieved, for the mine site to be considered compliant.
<b>Environmental Value</b>	A beneficial use and/or an ecosystem health condition.
<b>GDA Coordinates</b>	Map coordinates as per the Geocentric Datum of Australia reference system.
<b>Heap leach</b>	A facility used to extract minerals and/or other compounds from ore by placing the ore on a liner and adding chemicals through drip systems.
<b>Key Mine Activities</b>	Defined as the following activity types: a tailings or residue storage facility, waste dump or overburden stockpile, evaporation pond, dam – saline water or process liquor, mining void, low-grade ore stockpile (class 1) or run-of-mine pad, heap or vat leach facility, plant site.
<b>Likelihood</b>	Description of probability or frequency of an event occurring.

<b>Mining Proposal</b>	A document in the form and content as required by the <i>Statutory Guidelines for Mining Proposals</i> .
<b>Mine Closure Plan</b>	A document in the form and content as required by the <i>Statutory Guidelines for Mine Closure Plans</i> .
<b>Mine Activity Reference</b>	Name given to a particular activity at the mine for ease of identification, for example “Western Waste Dump” or “Tailings Storage One”.
<b>Phase of mining</b>	These phases include yet to commence, construction, operation, care and maintenance, active, rehabilitation and closure.
<b>Project</b>	The total integrated mining operations in which a number of sites contribute to the overall operation to supply ore, processing facilities and disposal of waste products.
<b>Rehabilitation</b>	The return of disturbed land to a safe, stable, non-polluting/ non-contaminating landform in an ecologically sustainable manner that is productive and/or self-sustaining consistent with the agreed post-mining land use.
<b>Residual Risk</b>	Risk remaining after risk treatment.
<b>Revision</b>	A numerical identifier of a mining proposal or mine closure plan. If modification and resubmission of an approved mining proposal or mine closure plan is required, the revision number must be updated prior to resubmission (e.g. 4.0 updated to 5.0).
<b>Risk</b>	The chance of something happening that will have an impact on objectives. It is measured in terms of consequences, and their likelihood of occurrence
<b>Risk Assessment</b>	Overall process for risk identification, risk analysis and risk evaluation
<b>Risk Pathway</b>	The causal mechanism through which a hazard or risk would be realised or occur.
<b>Risk Treatment</b>	Process to modify risk.
<b>Shaft</b>	A vertical or inclined opening of uniform and limited cross section made for finding or mining ore
<b>Stakeholder</b>	A person or representatives of an organisation that can affect, be affected by, or perceive themselves to be affected by, a decision or activity. A decision maker can be a stakeholder.
<b>Source of Risk</b>	Element which alone or in combination has the potential to give rise to risk. Source of potential harm, or situation with the potential to cause loss or adverse impact. These should also include sources that may only have potential unplanned interactions with the environment (i.e. accidents/incidents).
<b>Tailings Storage Facility</b>	An area used to store and consolidate tailings.
<b>Vat leach</b>	A facility used to extract minerals and/or other compounds from ore by placing an ore slurry within a tank/vessel along with chemicals and mixing/agitating the solution.
<b>Version</b>	An identifier that reflects a change to a mining proposal or mine closure plan that occurs during assessment. If DMIRS requests modification and resubmission of a document during assessment, the version number must be updated prior to resubmission (e.g. 4.0 updated to 4.1).
<b>Waste Landform</b>	Areas associated with the storage of unprocessed waste material resulting from a mining operation.
<b>Winze</b>	A steeply inclined shaft.

Government of Western Australia

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

8.30am – 4.30pm

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