Text within this section has been revised from the previous version to incorporate stakeholder feedback. Text within this section has not been revised however it has moved within the document.

DRAFT ONLY FOR COMMENT

Office use only: Registration ID:	
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Mining Proposal and Closure Plan for Low Impact Mining Operations

Proponents are required to contact the relevant Department of Mines, Industry Regulation and Safety (DMIRS) Environmental Officer for the region in which the low impact mining operation is proposed to confirm the use of this pro forma.

The objective of this form is to assist small operators in the preparation of a Mining Proposal and Mine Closure Plan. This form is to be used for small-scale developmental mining and is not intended to replace the Programme of Work form which can still be used for exploration and prospecting activities. Guidance information has been provided in this form to assist in its completion. For additional assistance please contact a DMIRS Environmental Officer or consult the **Guideline for Mining Proposals in Western Australia 2016** and **Guidelines for Preparing Mine Closure Plans 2015**. A separate template will be available for completing standalone Mine Closure Plans lodged without a Mining Proposal as per the requirements of Section 84 AA of the *Mining Act 1978*.

A Mining Proposal and Mine Closure Plan for low impact mining operations is required to meet the following criteria:

- low risk, small-scale activities, including scrape and detecting, small-scale test pits, small mobile dry/wet plants, small-scale vat/heap leach operations, small shafts or winzing, small precious stones mining, small-scale gypsum mining, small-scale basic raw material extraction and small-scale river-sand mining. The assessment of risk is based on the type, scale, location or scope of activities to be conducted.
- operations which are free of high risk issues that may require ongoing management post closure, for example fibrous
 minerals, radioactive materials, elevated heavy metals, material capable of generating acid and/or metalliferous drainage,
 erodible material that is capable of compromising the stability and or safety of the waste dump or overburden stockpile,
 permanent surface water diversions.
- operations which do not include permanent excavations below the water table.
- operations with less than 4,000 litres of fuel on site.
- operations which do not require referral under Part IV of the Environmental Protection Act 1986.
- which are not located within reserved land (e.g. conservation, water or town site reserve, with the exception of unoccupied town sites) or Public Drinking Water Source Areas.

If your proposed activities narrowly miss these criteria, you may discuss possible use of this form with the DMIRS Environmental Team Leader for your region (Environment Inspectorate Map).

Contact Information							
Northern Region	Southwest Region	Goldfields Region					
Ph: (08) 9222 3484 Email: northernenviro@dmirs.wa.gov.au	Ph: (08) 9222 3737 Email: southwestenviro@dmirs.wa.gov.au	Ph (08) 9021 9494 Email: Mail-InCSUKalgoorlie@dmirs.wa.gov.au					
	Environmental Division – <u>Inspectorate Map</u>						

Before the commencement of mining operations, an approved project management plan (PMP) is a requirement under the *Mines Safety and Inspection Act 1994* and Mines Safety and Inspection Regulations 1995. For more information please contact Mines Safety (1800SAFEMINE) or MinesSafety@dmirs.wa.gov.au.

Mining Proposal and Mine Closure Plan for Low Impact Mining Operations Checklist	Y/N/NA	Comment(s)
Please acknowledge that you understand and commit to complying with all tenement conditions.		
Are you aware that this Mining Proposal is publicly available?		
Is there any information in this Mining Proposal that should not be publicly available?		
If yes please provide confidential information in a separate document. A non-confidential version of all mining proposals will be made available to the public.		
For tenements with multiple tenement holders, have all of the holders consented to this proposal being submitted?		
Mining Proposals and Mine Closure Plans which have not been submitted by the tenement holder must include authorisation from the tenement holder.		
Endorsement of Tenement Holders/Authorised Person/s I hereby certify that to the best of my knowledge, the informat Plan and checklist is true and correct.	ion contain	ed within this Mining Proposal and Mine Closure
Name:		
Signature:	Date:	
Name:		
Signature:	Date:	

MINING PROPOSAL AND MINE CLOSURE PLAN FOR LOW IMPACT MINING OPERATIONS

Proj	ect Title:		Tenements:				
Proj	Project Code (J code) (if known):						
	ronmental Group Site (EGS) Code: is derived from the EARS2 system. Leave blank if new site	e)					
Ope	rator(s):						
Cont	act Name:						
Addı	ress:						
Pho	ne:		Email:				
1	ement Holder's Name (if different to above)*: ch authorisation of Tenement Holder if required.						
1.	SCOPE OF WORKS						
1.1	Please describe the activities, nature and sco how the operation meets the low impact min		mining operation proposed, including information to demonstrate ions criteria.				
1.2	Mineral(s) of interest:						
1.3	Maximum depth of excavations (m):						
1.4	Description of waste rock management:						
1.5	Estimated length of operations (months/ years) (including commencement and completion dates):						
1.6	Estimated workforce (persons):						
1.7	Will ore be processed on or off site?						
1.8	If off-site, where will processing occur? Detail the ore transportation route or attach a map showing the route.						
1.9	If on-site, please describe the type of processing (e.g. dry/wet plant) and estimated total throughput (t) for the life of the operation:						

	T			
1.10	Is a heap/vat leach proposed? If yes provide a description of the heap/vat leach facility (e.g. max. height, liner type, process chemicals used).			
1.11	Description of other support facilities (e.g. camp).			
2.	EXISTING ENVIRONMENT			
2.1	Describe the existing area (e.g. historic mine cleared areas).	es, waste dumps, old plant sites, general rubbish/scrap, la	rge previo	ously
2.2	Describe Existing Vegetation and Landform flat alluvial plain, greenstone, range, creek/dr	n (e.g. mulga shrublands, eucalypt/saltbush woodland, spirainage lines, hillsides etc.).	nifex gras	sland,
sign proje	ficance (ie. threatenead, priority, declared rare ect tenements is to be conducted on the Depar	ed to determine if there are any known species of conservations and fauna species) within the area. At a minimum, a threat of Biodiversity, Conservation and Attractions (DBCA tronmental Officer if you require assistance using NatureN	search of A)	the
	e search identifies flora or fauna of conservation ired. This should be discussed with the relevan	on significance, then further work, including on-ground sur at DMIRS Environmental Officer.	veys, may	be be
DMII	RS recommends the applicant includes photos	of the proposed disturbance area to assist the assessme	nt proces	S.
			Yes	No
2.3	A search of the project tenements has been of	conducted in NatureMap and results are attached.		
2.4	Were any conservation significant flora or factorized in the search?	una species (i.e. threatened, priority, declared rare)		
2.5	If yes to 2.4 above please confirm whether the flora or fauna. Please detail the results and management of the flora or fauna.	he proposed activities will have any impact on conservation nanagement approach.	on signific	ant
2.6	Please describe any additional flora and/or fa Please include any relevant documents as ap	auna surveys conducted by suitably qualified persons. opendices.		

3.	SOCIAL IMPACTS, LAND USE AND CONSULTATION				
3.1	Please mark the box provided to confirm that a desktop enquiry/search(s) of Department of Planning, Lands and Heritage (DPLH) Register has been undertaken to identify any places or objects of heritage significance that are currently known.				
3.2	Please mark the box provided to confirm that the "Cultural Heritage Due Diligence Guidelines" prepared by the DPLH and Department of the Premier and Cabinet have been considered to determine the level of risk (overall impact assessment) posed by the proposal. Depending on the level of risk (as determined by the Cultural Heritage Due Diligence Guidelines), evidence of on-site survey(s) identifying places or objects of heritage significance that are currently known or unknown may be required.				
	Note: Should the outcome of a survey indicate the proposed activities will intersect with heritage site, a copy of written consent or clearance (s18 approval under the <i>Aboriginal H Act 1974</i>) from DPLH regarding the potential impact of the mining project on the identified objects, of heritage significance will need to be provided.	eritage			
3.3	What are the underlying and pre-existing land uses of the area?				
3.4	Please list those stakeholders affected and the consultation undertaken to date, including they are to be resolved.	g any issues rai	sed and how		
		Yes	No		
3.5	Is the underlying/pre-existing land use expected to change after the completion of this Mining Proposal? If no, please continue at Section 4				
3.6	If yes, please describe the changed end land use.				
	Note: if the underlying/pre-existing land use is expected to change after completion of mexpected to be conducted with the relevant stakeholders.	ining then cons	ultation is		
		Yes	No		
3.7	Has engagement been undertaken with those stakeholders impacted by a change in land use?				

4.	LAND CLEARING				
		Yes		No	
4.1	Will your activities require the clearing of native vegetation? Note: Clearing refers to any act or activity that causes: The killing or destruction of; or The severing of trunks or stems of; or				
	 Any other substantial damage to; some or all of the native vegetation in an area. 				
		Yes	No	N/A	
4.2	Please indicate which of the following environmental management practices and methods of minimising disturbance will be undertaken:				
Sign	nificant vegetation (e.g. large trees and dense vegetation) will be avoided.				
Star	nds of vegetation or corridors will be left within areas of clearing.				
	ring boundaries will be marked out prior to clearing to prevent lvertent clearing.				
	etation and topsoil will be stripped from all disturbance areas and stockpiled for in rehabilitation. Stockpiles will be no greater than 2m high.				
	soil/vegetation stockpiles will be located away from drainage lines or where adation/contamination may occur.				
	und clearing activities will not be conducted during periods of high wind, to uce dust generation.				
	disturbances of bed and banks of watercourses to be restored to disturbance condition.				
	icle hygiene maintained to prevent the spread of plant pathogens . <i>Phytophthora sp.</i> .) and/or invasive species where required.				
List	any other management practices/methods:				
Plea	nse provide an explanation for any no responses above:				

5. SITE PLAN

A site plan is attached which includes all proposed and existing site infrastructure and activities to help explain the layout and function of the site. The site plan shows tenement boundaries and access to the project area from public roads etc.

Key Mine Activities

Any 'Key Mine Activities' listed below must be shown individually on the site plan and a maximum area included in the disturbance table (Section 6). Key Mine Activities are:

- Mining void (depth greater than 5m below groundwater)
- Mining void (depth greater than 5m above groundwater)
- Heap or Vat leach facility
- Evaporation pond
- Dam saline water or process liquor
- Plant site
- Run of mine pad
- Tailings or residue storage facility (Class 2):
 - highest embankment is less than 5 metres high
 - does not contain any of the following -
 - fibrous minerals
 - radioactive material
 - material capable of generating acid and metalliferous drainage, including neutral drainage and saline drainage.
- Waste dump or overburden stockpile (Class 2):
 - highest point is less than 15 metres high
 - it does not contain any of the following -
 - fibrous minerals
 - radioactive material;
 - material capable of generating acid and metalliferous drainage, including neutral drainage and saline drainage
 - erodible material that is capable of compromising the structure of the waste dump or overburden stockpile.

Miscellaneous Mine Activities

Any 'Miscellaneous Activities' not listed above must be listed in the disturbance table (Section 6), however footprints are not required for each individual activity. A total of all the miscellaneous activities proposed must be provided. The site plan can show a maximum disturbance envelope for all miscellaneous activities, rather than showing these as individual features. All envelope boundaries must be within tenement boundaries.

6. **DISTURBANCE TABLE ***

Only include activities which are being proposed or amended within the below table.

*For proposals with multiple tenements please attach additional disturbance tables as required.

Tenement MXX/XXXX)	Activity Category	Tick if activity is proposed	Current Area of Activity (Ha) (include if relevant or N/A) (e.g. currently working 0.5 ha shallow excavation)	TOTAL Current Approved Area (Ha) (include if relevant or N/A) (e.g. currently approved for 1 ha shallow excavation)	Proposed Change (Ha)/Seeking New Approval for (Ha) (e.g. seeking additional 1 ha shallow excavation)	New Total Approved Area (Ha) (total current approved + proposed change)
	Key Mine Activities					
	Heap or vat leach facility					
	Evaporation pond					
	Dam – saline water or process liquor					
	Tailings or residue storage facility (class 2)					
	Waste dump or overburden stockpile (class 2)					
	Plant site					
	Mining void (depth greater than 5m – below groundwater)					
	Mining void (depth greater than 5m – above groundwater)					
	Run of mine pad					
,	Miscellaneous Mine Activities	I			 	
	Shallow surface excavation (e.g. scrape and detect) or borrow pit less than 5m deep		activity type.	t required for each Please only spec s mine activities	cify the total are	scellaneous a for all
	Fuel storage facility (less than 4,000 litres of fuel on site)					
	Workshop					
	Landfill site					
	Dam – fresh water					
	Low-grade ore stockpile (Class 2) less than 15 metres high					
	Sewage pond					
	Building (other than workshop) or camp site					
	Transport corridor (e.g. roads, powerline, service corridor)					
	Laydown or hardstand area					
	Airstrip					
	Core yard					
	Borefield					
	Processing equipment or stockpile associated with basic raw material extraction					
	Land that is cleared of vegetation (other cleared land)					
	Topsoil stockpile					
	Total Miscellaneous Mine Activity Area (ha)					
	nent Activity Area (ha)					
/1/ 14:	Activity Areas + Miscellaneous					

7.	WASTE ROCK/TAILINGS MANAGEMENT					
		Yes	No			
7.1	Will any waste rock or tailings be generated as part of this proposal?					
7.2	Will leaching be undertaken on site?					
7.3	Is a Department of Water and Environmental Regulation (DWER) Part V licence under the <i>Environmental Protection Act 1986</i> held or expected to be required. If yes , what category and production level:					
If no	to all of the above please continue at Section 8.					
7.4	Will waste rock/overburden be backfilled into excavation/s?					
7.5	Is it proposed to stockpile waste rock as a permanent landform?					
7.6	Will tailings be generated from on-site processing?					
	s to any of the above, please provide the following information. Please include any support tachments.	ing documenta	tion			
7.7	What are the physical and chemical characteristics of the waste rock and tailings? (Refer to Guidelines for Mining Proposals in Western Australia (2016) for further inform	nation)				
7.8	7.8 What are the dimensions/diagrams of the landforms (e.g. waste rock dump or tailings storage facility) to be constructed, including maximum height?					
7.8.1	Provide a description of the rehabilitation measures for the landforms e.g. capping with f topsoil and vegetation. Please describe any management measures for significant rainfalls.					
7.9	7.9 Provide details of the leaching operations to be undertaken, including dimensions/tonnages, operating methodologies and rehabilitation processes.					
7.10	Detail the backfilling methodology including the depth of the excavation prior to backfilling	ng.				

8.	DUST/NOISE				
8.1	Distance (kms) to nearest:				
		Residence:			
		Public road:			
		Town:			
			Yes	No	N/A
writt for a orch subs	se acknowledge that you understand the requirement to obt en consent from the occupier of the land (e.g. pastoral lease ny activities within 100 metres of a yard, garden, cultivated ard, vineyard, plantation, airstrip, burial ground, land under c stantial occupied building; or within 400 metres of a water w , bore as per Section 20 (5) of the <i>Mining Act 1978</i> .	e holder) field, rop, house,			
			Yes	No	N/A
8.2	Is dust/noise likely to affect any sensitive receptors nearby (e.g. places of residence, water supplies, towns/communit				
8.3	Will the operation comply with the requirements of the Env Protection (Noise) Regulations 1997?	vironmental			

9.	WATER					
		Yes	No	N/A		
9.1	Is water required for treatment/processing?					
9.2	Is water required for dust suppression?					
9.3	Is groundwater abstraction required (either solely as a source of water or through dewatering)?					
If no	to above please go to Section 10.					
If ye 9.4	s to above: Provide an estimate of the quantity/volume of water to be used annually?					
9.5	Describe the water source, quality of the water (if known) and how it will be height and/or depth of any dams. Attach water quality analysis results as open pit.					
		Yes	No	N/A		
9.6	Has the Department of Water and Environmental Regulation (DWER) been contacted regarding any licencing requirements?					
9.7	Please indicate which of the following environmental management practices and methods of minimising disturbance will be undertaken:					
Dam	ns/turkey nests will be fitted with appropriate fauna egress points.					
Dam	s/turkey nests will be fenced/ or access is restricted.					
Dam	s/turkey nests will be lined, e.g. clay/HDPE.					
If ye	s, what will they be lined with?					
Any other management practices:						
Plea	se provide an explanation for any no responses above:					

10. DOMESTIC/INDUSTRIAL WASTE AND DANGEROUS/HAZARDOUS GOOD	S		
	Yes	No	N/A
Please indicate which of the following environmental management practices and methods of minimising disturbance will be undertaken:			
All hydrocarbons/chemicals will be stored in appropriately bunded areas.			
All hydrocarbons/chemical spills will be controlled, contained and cleaned up within 24 hours.			
Spill kits will be readily available for use (stocked and maintained).			
Any other management measures:			
Please provide an explanation as to the reason for any no responses above:			
11. CLOSURE OBJECTIVES			
The DMIRS objectives for rehabilitated mines include that they are:			
• safe to humans and animals			
geotechnically stablenon-polluting/non-contaminating			
 capable of sustaining a proposed/agreed post-mining land use (which will without unacceptable liability to the State. 	normally be to	return to pre-mir	ning land use)
Please mark the boxes provided to indicate a commitment that the closure of will be:	bjectives for th	e rehabilitated ı	mine
Physically safe to humans and animals.			
Geo-technically stable.			
Non-polluting/non-contaminating.			
Capable of sustaining an agreed post-mining land use.			
Any other commitments:			,

12. REHABILITATION ACTIVITIES AND CLOSURE COMMITMENTS

The rehabilitation activities and commitments in the following table are intended to be comprehensive, however, may not be exhaustive. Please include any other additional relevant commitments as required.

Please note that an N/A response is to be used only where the activity is not applicable to your operation, e.g. mark N/A to 'costeans/trenches excavations filled in' if there are none present. However, if costeans/trenches will be excavated and it is not intended to 'fill in excavations' then a **no** response is marked with explanation to be provided at the bottom of the table.

Where your proposal includes permanent landforms such as waste landforms or tailing storage structures, then additional detail may be required in **Section 7** of this proposal.

Please indicate which of the following will be undertaken:	Yes	No	N/A	Estimated length of time to complete rehabilitation works (weeks/months)
Windrows levelled off.				
Topsoil and vegetation respread.				
Costeans/trenches/excavations filled in.				
Plant and other infrastructure removed.				
Creeks/drainage lines reconstructed.				
Access roads blocked.				
Pit ramps blocked/bunded to restrict access.				
Abandonment bunding installed around large excavations in accordance with DMIRS Guidelines*.				
Waste landforms/stockpiles/tailings storage facilities will be rehabilitated as indicated in Section 7 of this Mining Proposal.				
All disturbed areas contour ripped.				
Disturbed areas re-seeded with native species.				
Shafts to be covered, fenced or otherwise made safe (eg. backfilled).				
Remove chemicals and fuel from site.				
Clean up areas where there have been any hydrocarbon or other chemical spills.				
Remove all rubbish and waste from site.				
Re-instate any pre-existing natural drainage lines and blend worked areas with the natural topography.				
Fauna habitat features will be incorporated into rehabilitation works with the strategic placement of fallen logs, boulders, etc.				

Any other rehabilitation activities or closure commitments:			
Please provide an explanation as to the reason for any no responses above:			
* DMIRS Guidance – Safety Bund Walls around Abandoned Mines: http://www.dmp.wa.gov.au/Documents/Safety/MSH_G_SafetyBundWallsAroundAbandonedMines.pdf			

13. **CLOSURE PROVISIONING, MONITORING AND MANAGEMENT** Monitoring is required to demonstrate the advancement towards, and achievement of, the closure objectives (Section 10) for the site through the implementation of rehabilitation activities and closure commitments. An appropriate monitoring program would also include records of mining areas before disturbance, or appropriate analogue sites, that may be used as reference points in monitoring the progress of rehabilitated areas towards achieving closure objectives. It is expected that the Annual Environmental Report (AER) will include an update on the progress towards meeting those objectives and that the monitoring results provided will serve to demonstrate these outcomes. 13.1 Please provide a description of the rehabilitation monitoring that will be undertaken at the project (e.g. photo monitoring points). 13.2 How often will this monitoring be conducted (e.g. annually)? Yes No N/A 13.3 Please indicate whether the following will be undertaken: Monitoring results will be maintained and reported to DMIRS in the AER. Monitoring will be conducted as indicated until closure objectives are achieved. Has an estimate been made of the cost associated with rehabilitation and closure of this site? Has adequate financial provisioning been made to close, rehabilitate, monitor and remediate the site? Upon unexpected or temporary closure, the closure process will be accelerated to ensure the project is left in a safe, stable and non-polluting manner. Records and documents relating to closure of the project will be maintained until closure objectives are achieved. Remedial works will be conducted as required until closure objectives are achieved. Any other monitoring measures:

Please provide an explanation as to the reason for any **no** responses above: 15

14. TENEMENT CONDITIONS

Please note that the following standard conditions may be imposed where applicable:

- The Lessee/Licensee notifying the holder of any underlying pastoral or grazing lease, by telephone, in person or by
 registered post if contact cannot be made, prior to before undertaking airborne geophysical surveys or any ground
 disturbing activities using equipment such as scrapers, graders, bulldozers, backhoes, drilling rigs, water carting
 equipment or other mechanised equipment.
- 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 vegetation and natural landform.
- All topsoil and vegetation being removed ahead of all mining operations from sites, such as pit areas, waste disposal
 areas, ore stockpile areas, pipeline, haul roads and new access roads, and being stockpiled for later respreading or
 immediately respread as rehabilitation progresses.
- All rubbish and scrap is to be progressively disposed of in a responsible manner.
- On the completion of operations or progressively where possible, all waste dumps, stockpiles or other mining related landforms must be rehabilitated to form safe, stable, non-polluting structures. These should be integrated with the surrounding landscape and support self-sustaining, functional ecosystems comprising suitable, local provenance species, or alternative agreed outcome to the satisfaction of DMIRS Environment Division Executive Director.
- All activities being conducted should not have a detrimental effect on the natural water flow through the lease and surrounding areas to the satisfaction of the Environmental Officer, DMIRS.
- No materials shall be extracted from below the bed load zone of rivers running through the lease.
- The Lessee/Licensee takes all reasonable measures to prevent or minimise the generation of dust from all materials handling operations, stockpiles, open areas and transport activities. Where saline water is used for dust suppression, all reasonable measures to be taken to avoid any detrimental effects to surrounding vegetation and topsoil stockpiles.