

Mining Management Plan Exploration Activities

Northern Territory of Australia – Mining Management Act

It is recommended that the Mining Management Plan is completed in conjunction with the user guide, available on the [Northern Territory Government website](#).

Section 1 – Project Details

Project Name Provide new or existing project name	Frewena Fable
Authorisation Number Insert existing authorisation number, where applicable	A1047-01
Operator Name Use ASIC-ABR registered name (if a company), or name of the applicant	Inca Minerals Limited
Location and Access Details Include brief description of the location, access details, and distance to nearest town or community	<p>The Project is located in the East Tennant region of the Northern Territory approximately 120km east of Tennant Creek and 50km west of the Barkly Homestead.</p> <p>Access is by the Barkly Highway, then by existing roads and tracks crossing the Northern Gas Pipeline. The closest existing track is approximately 6km from the northern border of the licence. The Barkly Homestead is the closest facility to the Project.</p>
Target Commodity Details Include target commodities (i.e. gold, copper etc)	Primarily gold and copper and additionally for silver, bismuth, cobalt, tungsten, molybdenum, and rare earth elements.
Mining Activities Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation	<p>Early stage exploration:</p> <p>Stage 1: construction of access tracks (c.70km length); wide spaced soil sampling; geological mapping and sampling.</p> <p>Stage 2: ground geophysical surveying; reconnaissance drill testing (reverse circulation) with additional drilling and exploration works as dictated by results.</p>
Proposed Schedule Include start and finish dates of ground disturbing work	<p>Stage 1: April 2021 to June 2022.</p> <p>Stage 2: June 2022 to June 2023 (and ongoing as required)</p>

Mining Interest and Land Ownership

List the mining interests (titles), the title holder name/s, the title expiry date and the Property name/Land holder (e.g. pastoralist or Aboriginal land trust) for each title.

Title Number	Title Holder	Expiry Date	Property Name or Land Holder
EL31974	MRG Resources Pty Ltd – 5% Jonathan West – 5% Inca Minerals Limited – 90%	06/03/2025	NT Portion 4469 Vacant Crown Land. NT Portion 773 Dalmore Downs Station
EL32287	MRG Resources Pty Ltd – 5% Jonathan West – 5% Inca Minerals Limited – 90%	27/01/2027	NT Portion 4469 Vacant Crown Land. NT Portion 773 Dalmore Downs Station

Delete or add rows as required

Organisational Structure

Position Title	Name
Managing Director	Ross Brown
Non-Executive Director	Jonathan West
Exploration Manager	Robert Heaslop
Senior Geologist	
Environmental Manager	
Radiation Safety Officer	

Delete or add rows for various position titles as required

Section 2 – Operator Self-Assessment of the Environmental Risk

The purpose of this self-assessment is to ensure Operators complete a project risk assessment of potential environmental impacts and are aware of other legislative obligations from various Agencies. As a result of this self-assessment, further information may be required in the form of a management plan to enable full assessment of the MMP. If you have any queries please contact a Mining Officer prior to submitting the MMP. Useful resources to assist with this self-assessment are provided in the User Guide.

Environmental considerations

ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (Evidence of consultation with DENR and/or management plan)
<p>Step 1: Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?</p>	No	<p>It is likely a threatened species will show up in most reports. Therefore, the Operator must undertake a likelihood analysis, which looks at the likelihood of the species or its habitat occurring at or near the site. If the analysis results in a high likelihood, then a "Significant Impact Assessment" should be undertaken, which may require consultation with the DEPWS – Flora and Fauna Division. The DEPWS may recommend a Biodiversity Management Plan – this must be developed and attached to the MMP.</p>	<p>Threatened species maps, reports and data sheets are attached at Appendix 1 – Environmental Considerations.</p> <p>Maps of EL31974 and EL32287 downloaded from the NR Maps site indicate no recorded threatened flora and fauna species recorded within or adjacent to titles.</p> <p>Updated 2021 EPBC Report lists the possible presence of 8 threatened fauna species, no threatened flora species recorded within the search grid area.</p> <p>Data from 2020 NRM report indicates presence of listed species is highly unlikely, based on dates of previous observations and area surveys (copy of 2020 report at Appendix 1).</p> <p>EPBC and NRM reports, NR Maps and data sheets for site and adjacent areas listed threatened species are attached at Appendix 1 – Environmental Considerations as evidence of proponent awareness. If observed, the proponent shall record the occurrence and report it to the DITT and DEPWS.</p> <p>Information contained in Appendix 1 will be made available to Operator personnel and contractors to ensure threatened species awareness.</p>

Mining Management Plan Exploration Activities

ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (Evidence of consultation with DENR and/or management plan)
<p>Step 2: Are there any known declared weeds within the proposed work area?</p>	<p>No</p>	<p>Under the <i>Weeds Management Act</i> declared weeds are required to be eliminated or controlled by the owner and occupier of land. Seek advice from DEPWS Weeds Management to ensure management measures are appropriate for the level of activity proposed and attach a Weed Management Plan (if required).</p>	<p>The NR Maps site shows no recorded incidences of declared weeds within EL31974 and EL32287 - map attached at Appendix 1.</p> <p>Weed species that may potentially be present within NRM and EPBC Report search area grids are listed in Appendix 1.</p> <p>Vehicle hygiene measures are detailed in the Frewena Fable Project Weed Management information sheet.</p> <p>A copy of the 2018 NT Weeds Branch Weed Management Handbook is the reference tool that the proponent uses to assist in managing site declared weeds. If observed, the proponent shall record the occurrence and report it to the DITT and DEPWS.</p>
<p>Step 3: Will you be using water from bores or other sources for the operation?</p>	<p>Yes</p>	<p><i>Note the Government is proposing to amend the exemption of water licencing under the Water Act for mining activities, including exploration. This section will be updated in light of any changes in the future.</i></p>	<p>The proponent will consult with the pastoralist for use of limited amounts of water for drilling purposed if and when required.</p>

Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<p>Step 4: Is your project likely to have a significant impact on the environment?</p>	No	<p>Refer to the NTEPA Environmental Factors and Objectives Guideline.</p>
<p>Step 5: Are there Aboriginal sacred sites in the Project area?</p>	No	<p>Sacred Sites are protected under the NT <i>Aboriginal Sacred Sites Act</i> and administered by the Aboriginal Areas Protection Authority (AAPA). It is recommended that advice be sought from AAPA in relation to sacred site protection.</p> <p>The proponent has consulted with the AAPA and received advice that no sacred sites are known to occur within the Project. The AAPA does not allow sacred site reports or information provided to be shared with third parties.</p>
<p>Step 6: Are there archaeological and heritage sites in the Project area?</p>	No	<p>Heritage and archaeology sites are protected in the NT. NT Heritage Branch of the Department of Environment, Parks and Water Security (DEPWS) administers the <i>Heritage Act</i>. Seek advice in relation to protection of heritage and archaeological sites.</p> <p>The proponent has consulted with the NT Heritage Branch who confirmed no heritage or archaeological sites are present within the Project. A copy of the report is provided in the Attachments folder.</p>

Section 3 – Amendments

As per Section 41(3) of the *Mining Management Act*, an MMP reviewed and amended under Section 41(1)(a) is to clearly identify amendments made.

Section	Amendment
1. Project Details	Inclusion of EL32287 in A1047-01.
2. Environmental considerations	Updated details to reflect inclusion of EL32287 in A1047-01.
3. Environmental assessment and cultural considerations	Updated details to reflect inclusion of EL32287 in A1047-01.
4. Activities Proposed	Updated details to reflect inclusion of EL32287 in A1047-01.
5. Previous Disturbance	Updated details to reflect inclusion of EL32287 in A1047-01.
8. Required Attachments	Updated details to reflect inclusion of EL32287 in A1047-01.

Delete or add rows as required

Section 4 – Activities Proposed

Mining Interests (i.e. titles)	EL 31974	EL32287	EL	EL
Number and type of proposed drill holes	20 RC with diamond tails (stage 2)	5 RC with diamond tails (stage 2)		
Maximum depth of proposed holes (m)	1,000m	1,000m		
Number and size of drill pads to be cleared (Length: m x Width: m)	20 pads @ 20m by 25m	5 pads @ 20m by 25m		
Total area of drill pads to be cleared (ha)	1ha	0.25ha		
Is drilling likely to encounter groundwater? (Y, N, unsure)	unsure	unsure		
Number of costeans (Length: m x Width: m x Depth: m)	0	0		
Number of bulk sample pits	0	0		
Total bulk sample (tonnes) (Length: m x Width: m x Depth: m)	n/a	n/a		
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N)	n/a	n/a		
Length of line/track clearing (km: x Width: m)	55km x 4m (was 100km x 4m) – revised following operator site visit and reassessment	15km x 4m		
Camp area to be cleared (ha)	0.5ha	n/a		
Camp Infrastructure (i.e. demountable, tents)	Tents and/or caravan	Within EL31974		
Previous disturbance yet to be remediated on title (ha) if known	n/a	n/a		
Other	n/a	n/a		
Total area disturbed proposed (ha)	23.5ha	6.25ha		

Section 5 – Previous Disturbance (for existing Authorisations only)

Mining Interests (i.e. titles)	EL31974	EL	EL	EL
Number/type of holes drilled	nil			
Maximum depth of holes drilled (m)	nil			
Number of holes remediated (i.e. plugged/capped)	nil			
Number and size of drill pads cleared (Length: m x Width: m)	nil			
Total area of drill pads cleared (ha)	nil			
Total area of drill pads remediated (ha)	nil			
Was groundwater encountered? (Y or N)	n/a			
Length of line/track cleared (Length: km x Width: m)	nil			
Length of line/track remediated (Length: km x Width: m)	nil			
Number of costeans excavated (L: m x W: m x D: m)	nil			
Number of costeans remediated	nil			
Total bulk sample pits excavated (Length: x Width: x Depth: m)	nil			
Total bulk sample pits remediated	nil			
Camp area/s cleared (ha)	nil			
Camp area/s remediated (ha)	nil			
Total area disturbed (ha)	nil			
Total area remediated (ha)	nil			

Section 6 – Environmental Management

By checking these boxes, you are agreeing to implement the following minimum environmental management standards on the project area. Where boxes have been left unchecked, justification is required.

6.1		Blade-up approach for clearing will be used (i.e. no windrows, leave root stock and topsoil)
6.2	X	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	X	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	X	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	X	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for remediation purposes
6.6	X	All employees and contractors will be trained and inducted in relation to the management of environmental risks in the work area, including weeds, waterways, threatened species, soil erosion, sacred sites and heritage areas
6.7	X	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	X	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	X	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	X	Drill holes will be securely capped immediately after drilling
6.11	X	Vehicle hygiene measures will be employed to prevent the introduction and spread of invasive species and pathogens when mobilising vehicles and equipment from one location to another
6.12	X	Hydrocarbon spills will be minimised using liners and drip trays under machinery, and appropriately sized spill-kits available in the event of a spill
6.13	X	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	X	Hydrocarbons will be stored in lined and bunded areas
6.15	X	Waste will be stored securely while on-site to minimise windblown rubbish and access by feral animals
6.16	X	Waste will be removed off-site and disposed of at an appropriate waste management facility
6.17	X	All environmental incidents will be reported to the Department in accordance with Section 29 of the <i>Mining Management Act</i> .

Justification and alternative management measures:

6.1 not checked to ensure main access track is properly constructed for duration of the Project but required rehabilitation as per 6.5 will be carried out. Where blade up approach is suitable (i.e. minor tracks) this will be undertaken.

Section 7 – Remediation and Closure

By checking these boxes, you are agreeing to implement the following minimum remediation standards on the project area. Where boxes have been left unchecked, justification is required.

7.1	<input checked="" type="checkbox"/>	Drill holes plugged below ground level at a minimum depth of 0.4 metres and soil mounded to prevent subsidence, within 6 months of completion of drilling
7.2	<input checked="" type="checkbox"/>	Drill samples/spoil returned down drill holes, buried in sumps, or removed from site
7.3	<input checked="" type="checkbox"/>	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site
7.4	<input checked="" type="checkbox"/>	Re-contouring of cut and fill drill pads will be consistent with the surrounding terrain
7.5	<input checked="" type="checkbox"/>	Ripping/scarifying of drill pads, and compacted areas along the contour (on sloping ground) and cross-ripping (zig-zag) along tracks
7.6	<input checked="" type="checkbox"/>	Tracks will be remediated, including pushing in all windrows
7.7	<input checked="" type="checkbox"/>	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur
7.8	<input checked="" type="checkbox"/>	All tracks will be remediated unless otherwise agreed in writing by the land holder or appropriate third party
7.9	<input checked="" type="checkbox"/>	Access through watercourses will be removed and banks restored
7.10	<input checked="" type="checkbox"/>	No erosion is occurring in disturbed areas, on tracks and in remediated areas
7.11	<input checked="" type="checkbox"/>	All excavations backfilled within 6 months of completion of drilling
7.12	<input checked="" type="checkbox"/>	All water bores decommissioned unless otherwise agreed in writing by the land holder or appropriate third party. The bore must comply with the Minimum Construction Requirements for Water Bores in Australia and may require permits or licenses under the <i>Water Act</i>
7.13	<input checked="" type="checkbox"/>	All rubbish and infrastructure will be removed from site
7.14	<input checked="" type="checkbox"/>	Replacement of topsoil and vegetation
7.15	<input checked="" type="checkbox"/>	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be remediated or removed from site
7.16	<input checked="" type="checkbox"/>	Monitoring will be undertaken following the wet season or a significant rainfall event


Justification and alternative management measures:

Mining Management Plan Exploration Activities

8.1	X	Security Calculation Spreadsheet
8.2	X	Nomination of Operator Form
8.3	X	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.4	X	Google Earth KML/shape files/track logs of proposed tracks and camp sites
8.5	X	<p>A map of the work area(s) showing:</p> <ol style="list-style-type: none"> 1. title boundaries and title numbers 2. current and proposed drill holes, or polygons of target areas 3. current and proposed tracks 4. remediated areas 5. camp sites 6. <u>sacred/heritage sites – not permitted to share AAPA report or information provided with third parties. Report is retained by proponent for reference.</u> Copy of NT Heritage Branch report attached. 7. environmental constraints
8.6	N/A	Remediation Register (for existing Authorisations) – no disturbance
8.7	N/A	Photographs of remediation work – no disturbance
8.8	N/A	Radiation Management Plan (if applicable)

Section 9 – Declaration

The Mining Management Plan must be endorsed by a senior representative of the company who has the appropriate level of authority to do so.

	Author	Reviewed by	Approved by
Date	15/03/2021		
Name	Rob Heaslop		
Signature			

I, ROSS BROWN as MANAGING DIRECTOR, declare that I have the authority to make the commitments contained in this mining management plan on behalf of the company. To the best of my knowledge the information contained in this plan is true and correct and commit to undertake the works in accordance with the agreed minimum standards and all relevant Northern Territory and Commonwealth Government legislation.

SIGNATURE:



DATE:

15 March 2021