

# Mining Management Exploration Activities

## Northern Territory of Australia – Mining Management Act 2001

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

### Section 1 – Project Details

<b>Project Name</b> Provide new or existing project name	Georgina Basin IOCG Project
<b>Authorisation Number</b> Insert existing authorisation number, where applicable	
<b>Operator Name</b> Use ASIC-ABR registered name (if a company), or name of the applicant	Knox Resources Pty Ltd (a wholly owned subsidiary of Greenvale Mining Limited)
<b>Operator ABN and ACN numbers</b>	91 623 480 286 623 480 286
<b>Location and Access Details</b> 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 approximately 100km east of Tennant Creek and 86km west of the Barkly Homestead Roadhouse.</p> <p>Access is via the Barkly Highway (40kms) west from the Barkly Homestead Roadhouse and then south via the well maintained gas pipeline service road to the gas pipeline (30kms) then west along the pipeline construction road (30kms) to the Project site Muster Point. Turn south on the proposed new access road for ~4kms to the drill site. Figure 2.</p>
<b>Target Commodity Details</b> Include target mineral commodities (i.e. gold, copper etc.)	Iron Oxide Copper Gold (IOCG) mineralisation. Primarily gold and copper + silver, bismuth, cobalt, tungsten, molybdenum and rare earth elements.
<b>Mining Activities</b> Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation.  Drilling programs over a maximum of four years are supported and encouraged and can be staged. Please refer to the guidelines for further information.	<p>Stage 1. Construction of 32km site access tracks and campsite. Close spaced ground gravity and magnetics using quad bikes. Access to site will be via Track 1, Figure 2.</p> <p>Stage 2. Construction of 2 drill pads, drilling and 26km of access from the Barkly Highway to site for heavy drilling equipment access. Access Track 2. Figure 2.</p>

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<p><b>Proposed Schedule</b> Include start and finish dates of ground disturbing work</p>	<p>Stage 1. As soon as approval is granted, Late July / Early September.</p> <p>Stage 2. September through to early November.</p>
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### 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	Underlying Property Name or Land Holder
EL32281	Knox Resources Pty Ltd	22/09/2026	NT Portion 4469 Vacant Crown Land
EL32282	Knox Resources Pty Ltd	22/09/2026	NT Portion 4469 Vacant Crown Land
EL32283	Knox Resources Pty Ltd	22/09/2026	NT Portion 4469 Vacant Crown Land NT Portion 4030. Epenarra Station
EL32285	Knox Resources Pty Ltd	22/09/2026	NT Portion 1. North Australian Pastoral Company Pty Ltd
EL32286	Knox Resources Pty Ltd	22/09/2026	NT Portion 232. North Australian Pastoral Company Pty Ltd
EL32295	Knox Resources Pty Ltd	22/09/2026	NT Portion 773. Bronco Yard Pty Ltd. NT Portion 4469 Vacant Crown Land
EL32296	Knox Resources Pty Ltd	22/09/2026	NT Portion 4469 Vacant Crown Land
ELA32280	Knox Resources Pty Ltd	Application	NT Portion 4068. Warumungu Aboriginal Land Trust
ELA32284	Knox Resources Pty Ltd	Application	NT Portion 3976. Wakaya Aboriginal Land Trust

Delete or add rows as required

Please note a Land Access Agreement (LAA) is required for disturbance proposed on Pastoral Properties on Exploration Licence (EL).

### Organisational Structure

Position Title	Name
Chief Executive Officer	<b>Matthew Healy</b>
Director	<b>Neil Biddle</b>
Exploration Manager	
Senior Geologist	
Field Manager	<b>Rob Carlos</b>
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 (e.g. evidence of consultation with DEPWS and/or management plan where required).
<p><b>Step 1:</b> Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?</p>	<p>YES</p>	<p>The following threatened species have been recorded or have the potential to occur.</p> <p><u>Grey Falcon: <i>Falco hypoleucus</i>.</u> Vulnerable. The Grey Falcon is known from the region. The Grey Falcons when nesting are susceptible to disturbance from the presence of people or vehicles within 300m and if a nest or suspected nest is encountered then a 300 m buffer zone will be put in place to reduce potential impact.</p> <p><u>Greater Bilby: <i>Macrotis lagotis</i>,</u> Vulnerable. The Greater Bilby is known to be present in the region and live-in burrows in the soil. If any colonies of the Greater Bilby are identified then a buffer zone of 30m will be put in place around any burrows to reduce impacts and disturbance.</p> <p>A preliminary Flora and Fauna Baseline survey over and around the proposed drill sites and access has been undertaken by Low Ecology of Alice Springs and their report and recommendations will be appended to an amended MMP.</p> <p>All water, grey and effluent will be caught in covered sumps to restrict the presence of pest animals.</p>	<p>EPBC Protected Matters Search report appended to this document lists the possible presence of 8 threatened fauna species, no threatened flora species recorded within the project search area.</p>

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ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (e.g. evidence of consultation with DEPWS and/or management plan where required).
<b>Step 2:</b> Are there any known declared weeds within the proposed work area?	NO	Seek advice from DEPWS – Weed Management Branch to determine if weeds are present on site and ensure management measures are appropriate for the level of activity proposed and attach a Weed Management Plan (if required).	See section 2.15 Weed Management Procedures – Environment Management Guidelines APPENDIX 1.  Tennant Creek Regional Weeds Strategy 2021 – 2026, Department of Environment, Parks and Water Security.
<b>Step 3:</b> Will you be using water from bores or other sources for the operation?	YES	If water is required then the company will consult with DEPWS Water Resources where water can be sourced. The company will also consult with the Pastoralist for use of water for drilling if required.	

## Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<b>Step 4:</b> Is your project likely to have a significant impact on the environment?	No	Refer to the NTEPA Environmental Factors and Objectives Guideline.
<b>Step 5:</b> Are there Aboriginal sacred sites in the Project area?	NO	Sacred Sites are protected under the NT <i>Aboriginal Sacred Sites Act 1989</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.  On 10 <sup>th</sup> June 2020 Knox Resources applied to AAPA with an application for an abstract of records of Aboriginal Sacred Sites on EL32282 and 32296. There are currently no recorded sites on either EL. Due to s38 of the act, the Abstract of Records cannot be appended to the MMP.
<b>Step 6:</b> Are there archaeological and heritage sites in the Project area?	NO	Heritage and archaeology sites are protected in the NT. NT Department of Territory Families, Housing and Communities (DTFHC) administers the <i>Heritage Act 2011</i> .  Seek advice in relation to protection of heritage and archaeological sites.

### 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 have amendments made since the previous MMP submission clearly identified.

Section	Amendment

Delete or add rows as required

## Section 4 – Activities Proposed for this MMP only

Provide relevant EL numbers

Mining Interests (i.e. titles)	EL32282	EL32296	EL	EL
Number and type of proposed exploration drill holes	1 RC with diamond tail. Stage 2.	1 RC with diamond tail. Stage 2.		
Maximum depth of proposed holes (m)	800 m	800m		
Number and size of drill pads to be cleared (Length: m x Width: m)	1 pad 30m x 25m	1 pad 30m x 25m		
Total area of drill pads to be cleared (ha)	0.075	0.075		
Number of proposed water bores	None	None		
Is drilling likely to encounter groundwater in multiple or confined aquifers? (Y, N, unsure) If answering yes, please provide the number of exploration holes where this is likely to occur	Unsure	Unsure		
Number of costeans	None	None		
Volume to backfill costeans (Length: m x Width: m x Depth: m)	None	None		
Number of bulk sample pits	None	None		
Volume to backfill bulk sample pits (Length: m x Width: m x Depth: m)	None	None		
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N). If Yes provide approval	None	None		
Line/track clearing: (length km x width m)	25.3km x 3.5m	6.2km x 3.5m		

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Mining Interests (i.e. titles)	EL32282	EL32296	EL	EL
Area of proposed line/track clearing (ha)	8.93 ha	2.245 ha		
Camp area to be cleared (ha) 30m x 25m	0.075 ha	0.12 ha		
Camp Infrastructure (i.e. demountable, tents) Please provide a complete list with measurements as required in the security calculation	Knox 3 medium size caravans	Driller's camp and lay down area: 2 large caravans & sea container		
Other: Access track into project area (length km x width m)	13km x 3.5m 4.55 ha	13km x 3.5m 4.55 ha		
Total proposed area of disturbance (ha)	13.6 ha	7.0 ha		

Staging approach based on disturbance can be proposed and will be considered by the Department.

## Section 5 – Previous Disturbance (for existing Authorisations only)

The 'Disturbance Tracking' spreadsheet must be completed and attached to the MMP submission to complete this section. The spreadsheet is available on the departmental web page where this template is located.

N/A

## Section 6 – Environmental Management

By checking these shaded 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 rehabilitation 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> .
6.18	X	Acid and Metalliferous Drainage (AMD) and Potentially Acid Forming (PAF) material derived from drilling cuts will be managed to avoid AMD and PAF related issues on site.
6.19	X	Radioactive/NORM drill cuttings will be managed to avoid radiation related issues on site.
6.20	X	Dust management will be implemented on site.

Justification and alternative management measures:

Where Blade-up technique cannot be employed due to the dense coverage of spinifex then 6.5 management standards will be implemented.



## Section 7 – Rehabilitation and Closure

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

A refund of security related to completed rehabilitation on site requires the submission of a rehabilitation report including photographs, an updated security calculation and updated disturbance tracking spreadsheet to the Department.

7.1	<input checked="" type="checkbox"/>	Drill holes will be 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 holes encountering multiple or confined aquifers will be grouted with concrete.
7.3	<input checked="" type="checkbox"/>	Drill samples/spoil will be returned down drill holes, buried in sumps, or removed from site.
7.4	<input checked="" type="checkbox"/>	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site.
7.5	<input checked="" type="checkbox"/>	Cut and fill drill pads will be re-contoured to be consistent with the surrounding terrain.
7.6	<input checked="" type="checkbox"/>	Drill pads and compacted areas along the contour (on sloping ground) will be ripped/scarified of and tracks will be cross-ripped (zig-zag).
7.7	<input checked="" type="checkbox"/>	Tracks will be rehabilitated, including pushing in all windrows, unless otherwise agreed in writing by the land holder or appropriate third party.
7.8	<input checked="" type="checkbox"/>	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur.
7.10	<input checked="" type="checkbox"/>	Access through watercourses will be removed and banks restored.
7.11	<input checked="" type="checkbox"/>	All previously disturbed areas will be stable, with no evidence of active soil erosion.
7.12	<input checked="" type="checkbox"/>	All excavations will be backfilled within 6 months of their completion.
7.13	<input checked="" type="checkbox"/>	All water bores will be decommissioned unless otherwise agreed in writing by the land holder or appropriate third party.
7.14	<input checked="" type="checkbox"/>	All rubbish and infrastructure will be removed from site.
7.15	<input checked="" type="checkbox"/>	Topsoil will be replaced and vegetation re-established.
7.16	<input checked="" type="checkbox"/>	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be rehabilitated or removed from site.
7.17	<input checked="" type="checkbox"/>	Monitoring will be undertaken following the wet season or a significant rainfall event.

Justification and alternative management measures:

## Section 8 – Required Attachments

8.1	X	Initial Application for Authorisation or variation of Authorisation (only if details on the form have subsequently changed).
8.2		Nomination of Operator Form, where required
8.3	X	Security Calculation Spreadsheet
8.4		Evidence of Land Access Agreement if operating on an Exploration Licence (EL) on Pastoral Lease (e.g. two-ways exchange of email) Exploration to be carried out mainly on vacant crown land. Letter sent to Dalmore Downs with map attached outlining low impact ground gravity polygons. Waiting for reply.
8.5		Disturbance tracking spreadsheet (for existing Authorisations) N/A
8.6	X	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.7	X	KML/shape files/track logs of proposed tracks, camp sites and proposed drill holes or polygons of target areas
8.8	X	Map(s) of the work area(s) showing: <ul style="list-style-type: none"> <li>1. Map 1. Georgina Basin Project – Title Boundaries &amp; Numbers</li> <li>2. Map 2. Georgina Basin Project – Ground Gravity Polygons, Proposed Drill and Camp Sites.</li> <li>3. Map 3. Current and Proposed Site Access Tracks</li> </ul>
8.10		Radiation Management Plan (if applicable)
8.12	X	Document(s) being appended in relation to Section 2 (if any): <p>APPENDIX 1. ENVIRONMENTAL MANAGEMENT GUIDELINES</p> <p>APPENDIX 2. TENNANT CREEK REGIONAL WEEDS STRATEGY.</p> <p>APPENDIX 3. EPBC ACT PROTECTED MATTERS REPORT – project area</p> <p>APPENDIX 4. GENERAL INDUCTION</p> <p>APPENDIX 5. PROJECT EMERGENCY MANAGEMENT PLAN</p> <p>APPENDIX 5. FORMS</p> <ul style="list-style-type: none"> <li>DRILL RIG INSPECTION CHECKLIST.</li> <li>HAZARD INCIDENT REPORTING FORM.</li> <li>INCIDENT INVESTIGATION FORM.</li> <li>VISITORS INDUCTION FORM.</li> </ul>