

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

<p><b>Project Name</b> Provide new or existing project name</p>	<p>Yarram Iron Ore</p>
<p><b>Authorisation Number</b> Insert existing authorisation number, where applicable</p>	<p>1034-01</p>
<p><b>Operator Name</b> Use ASIC-ABR registered name (if a company), or name of the applicant</p>	<p>Yarram Iron Pty Ltd</p>
<p><b>Operator ABN and ACN numbers</b></p>	<p>ABN: 18 125 984 401 ACN: 125 984 401</p>
<p><b>Location and Access Details</b> Include brief description of the location, access details, and distance to nearest town or community</p>	<p>2030 White Road, Rum Jungle NT 0822 Australia, 10km North East of Batchelor, on Whites Road. Access is via Lithgow Rd, Rum Jungle.</p>
<p><b>Target Commodity Details</b> Include target mineral commodities (i.e. gold, copper etc.)</p>	<p>Iron Ore</p>
<p><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>	<p>The drilling of 30 exploration holes (25 RC/AC &amp; 5 Diamond holes) and the collection of samples for the purpose of resource definition.  30 drill pads: 5 diamond @ 25m x 25m for 3,125 m<sup>2</sup>, and 25 RC/AC pads @ 20m x 10m for 5,000m<sup>2</sup>, for total 8,125 m<sup>2</sup>.  Access tracks ~ 4m wide approximately 1,100m length in total (4,400m<sup>2</sup>).</p>

## Mining Management Exploration Activities

<b>Proposed Schedule</b> Include start and finish dates of ground disturbing work	May–Oct 2023, may delay due to wet season and recommence during the May-Sep 2024 dry season.
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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.

During this exploration program activities will be restricted to MLN1163 while other stakeholders are engaged.

Title Number	Title Holder	Expiry Date	Property Name or Land Holder
ELR125	Northern Territories Resources	22/08/2023	Multiple landowners
ELR146	Northern Territories Resources	18/09/2026	Finnis River Land Trust
MLN1163	Northern Territories Resources	23/03/2030	Freehold

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

## Organisational Structure

Position Title	Name

## 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)
<b>Step 1:</b> Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?	No	The Operator must assess the likelihood of threatened species or their habitats occurring at or near the site. If the likelihood is high, then a “Significant Impact Assessment” must be undertaken and appended to this document.	A flora and fauna desktop assessment has been conducted over the proposed work area. There are no known threatened flora and fauna records or habitats of significance within the proposed work area ( <b>Appendix A</b> ).
<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)	Weed management information is included in <b>Appendix B</b>
<b>Step 3:</b> Will you be using water from bores or other sources for the operation?	Yes	Water related matters on mineral titles are no longer exempt from the <i>Water Act 1992</i> . Please consult with DEPWS Water Resources and/or familiarise yourself with the <i>Water Act</i> to ensure compliance under this Act when undertaking exploration activities.  Water for drilling will be sourced offsite from licenced water sources.	A water extraction licence is not required under the <i>Water Act</i> .

Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<p><b>Step 4:</b> 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>See <b>Appendix C</b> (NT EPA pre-referral checklist).</p>
<p><b>Step 5:</b> Are there Aboriginal sacred sites in the Project area?</p>	No	<p>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.</p> <p>Please refer to attached AAPA Certificate (<b>Appendix D</b>).</p>
<p><b>Step 6:</b> Are there archaeological and heritage sites in the Project area?</p>	No	<p>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>.</p> <p>Seek advice in relation to protection of heritage and archaeological sites.</p> <p>The old North Australian Railway runs through MLN1163 and the proposed work area. The applicant will avoid disturbance to the old North Australian Railway.</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 have amendments made since the previous MMP submission clearly identified.

Section	Amendment
4	Update drillholes/pads from variation 2 with additional holes.

Delete or add rows as required.

## Section 4 – Activities Proposed for this MMP only

Mining Interests (i.e. titles)	MLN1163
Number and type of proposed exploration drill holes	25 RC/AC and 5 Diamond exploration drill holes
Maximum depth of proposed holes (m)	Max depth 100m – average depth 60m.
Number and size of drill pads to be cleared (Length: m x Width: m)	30 drill pads (25 RC/AC and 5 diamond): 5 diamond @ 25m x 25m for 3,125 m <sup>2</sup> , and 20 RC pads @ 20m x 10m for 5,000m <sup>2</sup> , for total 8,125 m <sup>2</sup> .
Total area of drill pads to be cleared (ha)	0.81 ha (maximum)
Number of proposed water bores	No water bores to be drilled (existing water bores will be used).
Is drilling likely to encounter groundwater? (Y, N, unsure)	Yes
Number of costeans (Length: m x Width: m)	NA
Number of bulk sample pits	0
Total bulk sample (tonnes) (Length: m x Width: m x Depth: m)	NA
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N)	NA
Length of line/track clearing (km: x Width: m)	Access tracks ~ 4m wide approximately 1,100m length in total (4,400m <sup>2</sup> ).
Camp area to be cleared (ha)	NA
Camp Infrastructure (i.e. demountable, tents)	NA
Other	
Total area disturbed proposed (ha)	1.25 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.

Attached.

## 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	<b>X</b>	Blade-up approach for clearing will be used (i.e. no windrows, leave root stock and topsoil)
6.2	<b>X</b>	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	<b>X</b>	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	<b>X</b>	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	<b>X</b>	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for rehabilitation purposes
6.6	<b>X</b>	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	<b>X</b>	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	<b>X</b>	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	<b>X</b>	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	<b>X</b>	Drill holes will be securely capped immediately after drilling
6.11	<b>X</b>	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	<b>X</b>	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	<b>X</b>	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	<b>X</b>	Hydrocarbons will be stored in lined and bunded areas
6.15	<b>X</b>	Waste will be stored securely while on-site to minimise windblown rubbish and access by feral animals

## Mining Management Exploration Activities

6.16	<b>X</b>	Waste will be removed off-site and disposed of at an appropriate waste management facility
6.17	<b>X</b>	All environmental incidents will be reported to the Department in accordance with Section 29 of the <i>Mining Management Act</i> .
6.18	<b>X</b>	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	<b>X</b>	Radioactive/NORM drill cuttings will be managed to avoid radiation related issues on site.
6.20	<b>X</b>	Dust management will be implemented on site.

Justification and alternative management measures:

- Water for drilling will be sourced offsite from licenced water sources.
- Sumps will be installed within drill pads to capture excess/wastewater generated during drilling and will be backfilled and rehabbed at the completion of drilling.
- Exploration activities will not impact on the old North Australian Railway.
- The applicant will avoid disturbance to large trees (diameter > 40 cm) where possible.

## 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.

Rehabilitation will comply with advisory notes AA7-005 and AA7-029 for rehabilitation of gridlines, tracks, and drill sites. A rehabilitation register will be maintained.

7.1	<b>X</b>	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	<b>X</b>	Drill holes encountering multiple or confined aquifers will be grouted with concrete.
7.3	<b>X</b>	Drill samples/spoil will be returned down drill holes, buried in sumps, or removed from site.
7.4	<b>X</b>	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site.
7.5	<b>X</b>	Cut and fill drill pads will be re-contoured to be consistent with the surrounding terrain.
7.6	<b>X</b>	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	<b>X</b>	Tracks will be rehabilitated, including pushing in all windrows, unless otherwise agreed in writing by the land holder or appropriate third party.

## Mining Management Exploration Activities

7.8	<b>X</b>	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur.
7.10	<b>X</b>	Access through watercourses will be removed and banks restored.
7.11	<b>X</b>	All previously disturbed areas will be stable, with no evidence of active soil erosion.
7.12	<b>X</b>	All excavations will be backfilled within 6 months of their completion.
7.13	<b>N/A</b>	All water bores will be decommissioned unless otherwise agreed in writing by the land holder or appropriate third party.
7.14	<b>X</b>	All rubbish and infrastructure will be removed from site.
7.15	<b>X</b>	Topsoil will be replaced and vegetation re-established.
7.16	<b>X</b>	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be rehabilitated or removed from site.
7.17	<b>X</b>	Monitoring will be undertaken following the wet season or a significant rainfall event.

Justification and alternative management measures: Nil

## Section 8 – Required Attachments

8.1	<b>X</b>	Initial Application for Authorisation or variation of Authorisation (only if details on the form have subsequently changed).
8.2	<b>N/A</b>	Nomination of Operator Form, where required
8.3	<b>X</b>	Security Calculation Spreadsheet
8.4	<b>N/A</b>	Evidence of Land Access Agreement if operating on an Exploration Licence (EL) on Pastoral Lease (e.g. two-ways exchange of email)
8.5	<b>X</b>	Disturbance tracking spreadsheet (for existing Authorisations)
8.6	<b>X</b>	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.7	<b>X</b>	KML/shape files/track logs of proposed tracks, camp sites and proposed drill holes or polygons of target areas
8.8	<b>X</b>	Map(s) of the work area(s) showing: <ul style="list-style-type: none"> <li>1. title boundaries and title numbers</li> <li>2. current and proposed drill holes, or polygons of target areas</li> <li>3. current and proposed tracks</li> <li>4. rehabilitated areas</li> <li>5. camp sites</li> <li>6. heritage sites or significant environmental areas</li> <li>7. environmental constraints</li> </ul>
8.10	<b>N/A</b>	Radiation Management Plan (if applicable)



## Mining Management Exploration Activities

8.12	<b>X</b>	Document(s) being appended in relation to Section 2 (if any):  <b>Appendix A</b> – Flora and Fauna Assessment <b>Appendix B</b> – Weed Management Plan <b>Appendix C</b> - NT EPA Pre-screening checklist <b>Appendix D</b> – AAPA Authorisation
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