

# 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

<b>Project Name</b> Provide new or existing project name	Birrindudu Project
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<b>Authorisation Number</b> Insert existing authorisation number, where applicable	TBA
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<b>Operator Name</b> Use ASIC-ABR registered name (if a company), or name of the applicant	Oakajee Exploration Pty Ltd
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<b>Location and Access Details</b> Include brief description of the location, access details, and distance to nearest town or community	<p>The project area is located approximately 435km north west of Tennant Creek and within the Tanami Region. The licences are situated on Birrindudu Station 55km west of the Lajamanu Community.</p> <p>Access to the project area from Darwin is via the Stuart to Katherine, thence via the Victoria Highway, thence via the Buntine Highway, thence via established roads and tracks.</p>
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<b>Target Commodity Details</b> Include target commodities (i.e. gold, copper etc)	Nickel Copper and PGE.
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<b>Mining Activities</b> Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation	<p>Oakajee plans on conducting 101 Aircore drillholes within ELs 32051 and 32052. Drilling depths will be approximately 50 to 70m, totalling 5,600m.</p> <p>Tracks will be required. Drilling will occur on the tracks, so no additional pads are required. The drilling will not intersect watercourses and will not require sumps for drilling.</p> <p>A map and spreadsheet with the drill hole data is located at <b>Appendix 10</b>. The digital files are located in <b>Appendix 11</b>.</p> <p>All samples will be laid out on the ground for sampling and logging. Plastic bags will not be used. The samples will then be rehabilitated along with the access when finished.</p>
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<b>Proposed Schedule</b> Include start and finish dates of ground disturbing work	August to December
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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	Property Name or Land Holder
EL32051	Oakajee Exploration Pty Ltd	02/07/2025	Birrindudu Station, Inverway Station and Riveren Station
EL32052	Oakajee Exploration Pty Ltd	02/07/2025	Birrindudu Station

### Organisational Structure

Position Title	Name
Managing Director	Mark Jones
Director	Doug Rose
Exploration Manager	Reg Beaton
Senior Geologist	TBA

## 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><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>No threatened flora. Please see page 17 of Appendix 12.</p> <p>Yes, there are threatened fauna species that may occur within the region. Please see section 5 of Appendix 12.</p>	<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 DENR – Flora and Fauna Division. The DENR may recommend a Biodiversity Management Plan – this must be developed and attached to the MMP.</p>	
<p><b>Step 2:</b> Are there any known declared weeds within the proposed work area?</p>	<p>Yes. Please see section 4.5 of Appendix 12.</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 DENR – Weeds Management to ensure management measures are appropriate for the level of activity proposed and attach a Weed Management Plan (if required).</p>	

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ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (Evidence of consultation with DENR and/or management plan)
<b>Step 3:</b> Will you be using water from bores or other sources for the operation?	Yes. RN020338 and RN020080 will be used. RN020338 can only produce up to 1L/s and RN020080 can only produce up to 2L/s. Oakajee will extract up to 1,000L per day.	<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>	Appendix 9- Confirmation from DENR that a water extraction licence is not 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. Oakajee will implement the recommendations listed in Tables 9 and 11 of Appendix 12.	Refer to the NTEPA Environmental Factors and Objectives Guideline.
<b>Step 5:</b> Are there Aboriginal sacred sites in the Project area?	Restricted works area within EL32052- As advised by the AAPA, within the restricted area, maintenance and upgrade works will not be conducted on existing tracks and cross country vehicles will be driven carefully on tracks to avoid damage to the natural landscape.	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.
<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 Heritage Branch of the Department of Natural Resources and Environment (DENR) administers the <i>Heritage Act</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 clearly identify amendments made.

Section	Amendment
	N/A- First MMP

## Section 4 – Activities Proposed

Mining Interests (i.e. titles)	EL32051	EL32052
Number and type of proposed drill holes	24 Aircore	77 Aircore
Maximum depth of proposed holes (m)	100 m	100 m
Number and size of drill pads to be cleared (Length: m x Width: m)	Nil required- area accounted for in tracks	Nil required- area accounted for in tracks
Total area of drill pads to be cleared (ha)	0	0
Is drilling likely to encounter groundwater? (Y, N, unsure)	U	U
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)	0	0
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)	18.4km x 0.003km= 5.5 Ha	22.12km x 0.003km= 6.6 Ha
Camp area to be cleared (ha)	0	0
Camp Infrastructure (i.e. demountable, tents)	2 x caravan plus tents	2 x caravan plus tents
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)	5.5 Ha	6.6 Ha

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

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

## 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	✓	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	✓	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	✓	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	✓	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for remediation purposes
6.6	✓	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	✓	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	✓	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	✓	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	✓	Drill holes will be securely capped immediately after drilling
6.11	✓	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	✓	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	✓	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	✓	Hydrocarbons will be stored in lined and bunded areas
6.15	✓	Waste will be stored securely while on-site to minimise windblown rubbish and access by feral animals
6.16	✓	Waste will be removed off-site and disposed of at an appropriate waste management facility
6.17	✓	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:

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## 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	✓	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	✓	Drill samples/spoil returned down drill holes, buried in sumps, or removed from site
7.3	✓	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site
7.4	✓	Re-contouring of cut and fill drill pads will be consistent with the surrounding terrain
7.5	✓	Ripping/scarifying of drill pads, and compacted areas along the contour (on sloping ground) and cross-ripping (zig-zag) along tracks
7.6	✓	Tracks will be remediated, including pushing in all windrows
7.7	✓	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur
7.8	✓	All tracks will be remediated unless otherwise agreed in writing by the land holder or appropriate third party
7.9	✓	Access through watercourses will be removed and banks restored
7.10	✓	No erosion is occurring in disturbed areas, on tracks and in remediated areas
7.11	✓	All excavations backfilled within 6 months of completion of drilling
7.12	✓	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	✓	All rubbish and infrastructure will be removed from site
7.14	✓	Replacement of topsoil and vegetation
7.15	✓	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be remediated or removed from site
7.16	✓	Monitoring will be undertaken following the wet season or a significant rainfall event

Justification and alternative management measures:

## Section 8 – Required Attachments

8.1	✓	Security Calculation Spreadsheet
8.2	✓	Nomination of Operator Form
8.3	✓	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.4	✓	Google Earth KML/shape files/track logs of proposed tracks and camp sites
8.5	✓	<p>A map of the work area(s) showing:</p> <ol 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. remediated areas</li> <li>5. camp sites</li> <li>6. sacred/heritage sites</li> <li>7. environmental constraints</li> </ol>
8.6	N/A	Remediation Register (for existing Authorisations)
8.7	N/A	Photographs of remediation work
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	8 August 2020	8 August 2020	8 August 2020
Name	Holly Edgar	Reg Beaton	Reg Beaton
Signature			

I, **Reg Beaton**, Exploration Manager, 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:** 8 August 2020