

Mining Management Plan

Oonagalabi Project, EL32279

12th December 2023



COMET
RESOURCES

Mining Management Plan for Exploration Activities

1. PROJECT DETAILS

Project Name	Oonagalabi Project - EL32779
Authorization Number	
Operator Name	Comet Resources Limited
Operator ABN and ACN	ABN: 88 060 628 202 ACN: 060 628 202
Location and Access Details	<p>The Oonagalabi tenement EL32779, is located ~125 km NE of Alice Springs, and ~20km south of Hart on the Plenty Highway in the Hart's Range, Northern Territory, Australia (Figure 1).</p> <p>Access to the project area is via the Plenty Highway, followed by unsealed station tracks.</p>
Exploration Activities	<p>An RC drilling program has provision for 1 DDH, 5 RC holes.</p> <p>Clearing of a single drill pad at each collar location, a temporary camp site, a drill laydown area, sumps, repairing and preparing sections of dirt track to reach site if necessary.</p>
Proposed Schedule	The drilling program is scheduled to commence on 1st March 2024 and run less than 4 weeks. Earthworks will be prepared in advance of the drilling and the area will be rehabilitated soon afterwards.
Target Commodity Details	Copper, Zinc and Lead



Figure 1. Location of the Oonagalabi Project, EL32279, with the boundary to Mt Riddock Station bounded in green.

1.1 Title Details Mining Interest and Land Ownership

The Oonagalabi Project is presently encompassed by exploration license EL32279, held by Comet Resources Ltd, set to expire on 29/10/2026. This area spans 145 km², comprising 46 units situated over the south-eastern periphery of Mt Riddock Station, the property of Mt Riddock Pastoral Company. Figure 1 illustrates the precise location of the exploration license, 100% owned and managed by Comet Resources Ltd (refer to Figure 2).

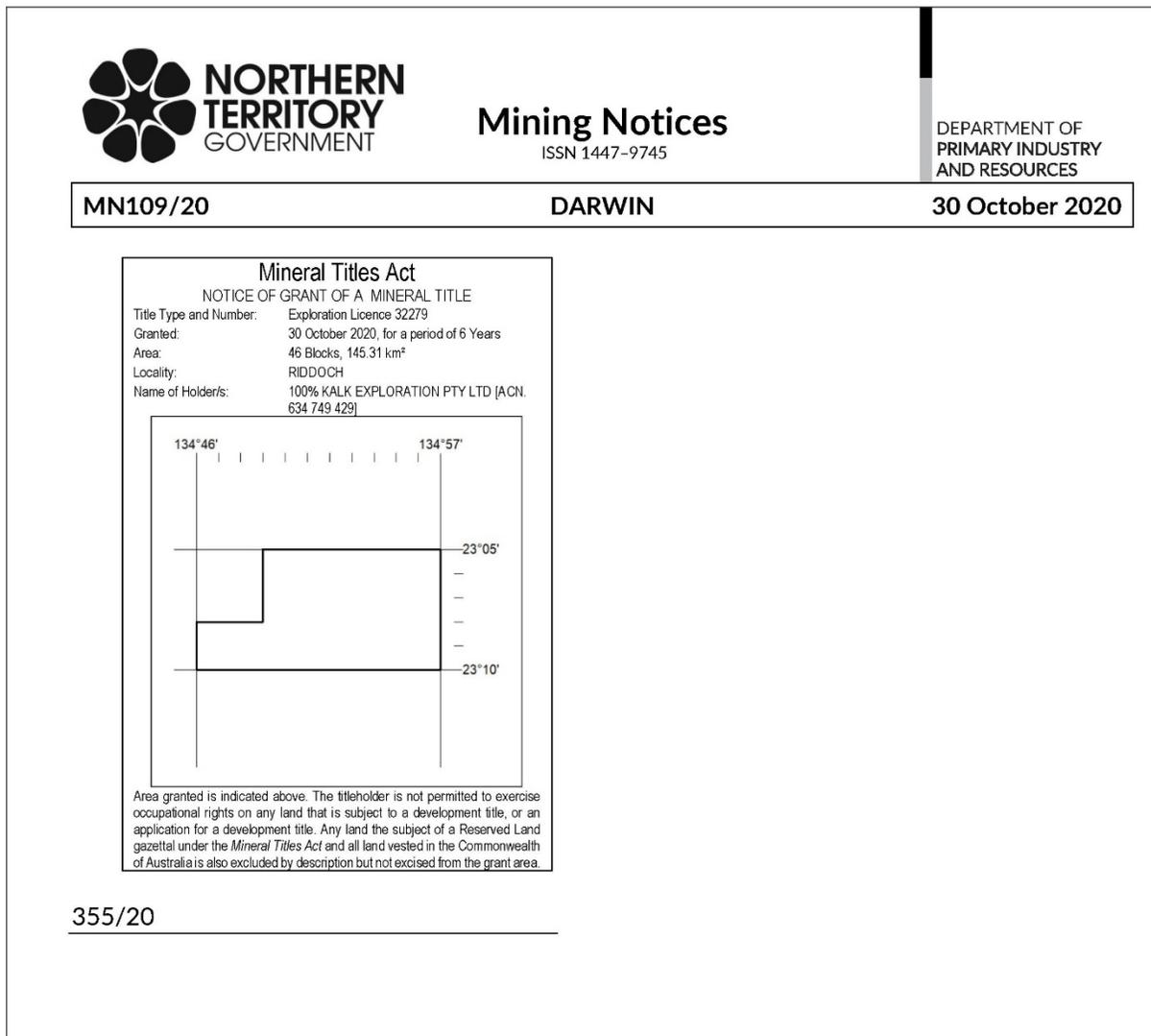


Figure 2: Mineral Title granted on the 30/10/ 2020, to Kalk Exploration Pty Ltd, a company 100% owned by Comet Resources Limited, which is the ultimate parent entity. *Ref. Comet Resources Ltd, Half-Year Financial Report, 31st Dec 2022.*

1.2 Overview of Project

The Oonagalabi Project exploration licence contains ~1.7 km of outcropping copper, zinc and lead mineralisation, hosted in anthophyllite-cordierite and forsterite marble sitting within the Strangways Metamorphic Complex.

Exploratory drilling with 5 x RC holes and 1 Diamond drill to a max depth 300m over 4 weeks is planned between Feb – April 2024. Comet will require the drilling contractor to use biodegradable drill consumables, collar casing, ensure effective plugging, capping and cementing of isolating aquifers. A representative for geochemical sample will be collected in a calico bag for every metre drilled.

Camping on site will be at the foot of the ranges, and likely to be a mix of mobile caravans, and swags, with temporary areas set aside for generators, food preparation and ablutions. Camp site, access tracks, drill pads, a laydown and turn around area for the drill rig and support vehicles will be prepared beforehand.

Discussions about sourcing water from existing bores or dams are ongoing with Mt Riddock Pastoral Company. Surface water is virtually non-existent and a reasonably productive bore, the Oorupida Spring Bore, has a flow rate of 5-10 L/s. As some percussion holes drilled prior to 1978 intersected groundwater with flow estimates at ~1,000 gph in the vicinity, two sumps are planned to be dug to contain contaminants although appropriately sized tanks may have to be used.

1.3 Organizational Structure and Responsibility

Position Title	Name
Managing Director	Matthew O'Kane
Non-Executive Chairman	Hamish Halliday
Non-Executive Director	Alex Molyneux
Company Secretary	Sonu Cheema
Exploration Manager	
Senior Geologist (Project Leader)	
Project Geologist(s)	
Radiation Safety Officer	
Environmental Manager (HSE Lead)	
Communities Manager	
Compliance Geologist	

2. OPERATOR SELF-ASSESSMENT OF THE ENVIRONMENTAL RISK

2.1 Environmental Considerations

ASSESSMENT ASPECT	YES/NO	COMMENTS AND ACTIONS REQUIRED	APPENDED INFORMATION
<p>Step 1:</p> <p>Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?</p>	NO	<p>There are no know species of threatened flora or fauna or habitats of significance at the location in data sited on the current Natural Resources Maps produced by the NT Governments Dept of Environment, Parks and Water Security.</p> <p>The proposed drill holes are > 1km away at their closest point to the MacDonnell Ranges Bioregion Site: 23-4-9 Harts Range, an area of national botanical and conservation significance.</p> <p>Planned routes will be scouted beforehand and Comet will avoid significant vegetation during the drilling as they could correspond to important fauna nesting sites.</p> <p>Care will be taken to select the drill sites in existing open areas. No clearing of significant vegetation will be required for the proposed drilling.</p> <p>The area is at the base of some 300m high hills with incised gullies and final positioning of the drill site will not be within 25m of a significant drainage course.</p> <p>Project induction will include photographs of local significant species to help familiarise staff and contractors with their appearance. Any possible sightings will be recorded, and the program paused until Comet resources has consulted with DEPWS.¹</p>	<p>A = Appendix</p> <p>https://nrmaps.nt.gov.au/nrmaps.html</p> <p>Figure A7.13. Document A7.13. Map MacDonnell Ranges Bioregion.pdf</p> <p>Figure A7.3. Figure A7.4</p> <p>Figure A7.2.</p> <p>Figure A7.18. Figure A7.19.</p>

¹ [MacDonnell Ranges Bioregion Collation, Neave 2007.](#)

ASSESSMENT ASPECT	YES/NO	COMMENTS AND ACTIONS REQUIRED	APPENDED INFORMATION
<p>Step 2:</p> <p>Are there any known declared weeds within the proposed work area?</p>	NO	<p>Currently all proposed drill sites/work area does not have any weeds recorded in data cited on the current Natural Resources Maps produced by the NT Governments Dept of Environment, Parks and Water Security.</p> <p>Weeds in the surrounding region and leading into the project area, are concentrated along drainage systems, transport routes and around Alice Springs.</p> <p>The Project Area is under the Weed Management Zones for Athel Pine, Bellyache Bush, Brazilian Peper, Gamba Grass and Mimosa.²</p> <p>Prior to arriving at the project area, all vehicles and equipment will be washed down in Alice Springs with high-pressure water, the interior of the vehicles will be vacuumed to ensure no foreign weeds or seeds are introduced to Mt Riddock Station and the project area. Weed and seed inspections will be recorded either digitally or on paper declarations.</p> <p>Comet will utilise the existing station track network to reach the proposed drill sites to ensure no weed materials are moved around the project area.</p>	<p>https://nrmaps.nt.gov.au/nrmaps.html</p> <p>Figure A7.20.</p> <p>Figure A7.1 Figure A7.3</p>

² <https://nrmaps.nt.gov.au/nrmaps.html>

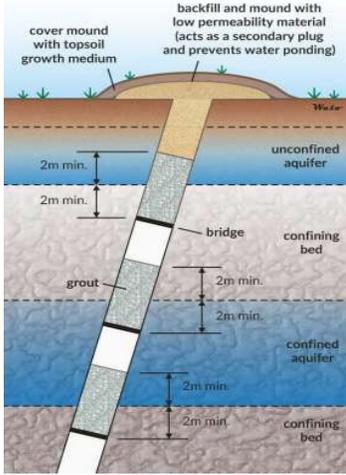
ASSESSMENT ASPECT	YES/NO	COMMENTS AND ACTIONS REQUIRED	APPENDED INFORMATION
		Raised blade clearing will be employed, only where necessary, during the construction of drill pads and temporary access tracks connecting the drill pads to nearby station tracks.	Figure A7.4
		Photographs of weed species will be included in the project induction to help familiarise staff and contractors with their appearance. Any identified weeds will be recorded, and information sent to DEPWS.	

ASSESSMENT ASPECT	YES/NO	COMMENTS AND ACTIONS REQUIRED	APPENDED INFORMATION
Step 3: Will you be using water from bores or other sources for the operation?	YES	<p>Mount Riddock Station has many existing water bores used to water stock.</p> <p>Comet has identified at least one reasonably productive bore, Oorupida Spring Bore (No. RN019390) with a flow rate of 5-10 L/s, ~10km back along the access track from the proposed holes.</p> <p>Discussions about sourcing water from existing bores are ongoing with Mt Riddock Pastoral Company.</p> <p>Water usage and quality will be monitored</p>	Figure A7.21.

1.4 Environmental Assessment and Cultural Considerations

ASSESSMENT ASPECT	YES/NO	MANAGEMENT REQUIREMENTS	APPENDED INFORMATION
<p>Step 4:</p> <p>Is your project likely to have a significant impact on the environment?</p>	NO	<p>The drilling program is considered low impact and unlikely to have a significant effect on the environment because of:</p> <ul style="list-style-type: none"> a) All earthworks to stabilise the site will be kept to a minimum. b) All lay down, camping areas and sumps will be away from dense vegetation on naturally clear ground. c) Sumps will all have a slope built in to allow for fauna egress. d) Existing station tracks will be used to reach the area of the proposed drilling. e) New access tracks will be kept to a minimum, avoiding dense patches of vegetation. f) Holes will be carefully positioned. g) The dozing of earth and excavated material down steep slopes will be avoided. h) The creation of hard bare rock areas which cannot support vegetation will be avoided. i) Any topsoil will be stockpiled for later use with rehabilitation. j) All drill holes will be permanently plugged and capped. k) All sample bags, waste materials and contaminants will be removed from site. l) Drill cuttings will be backfilled down the drillhole, all drill pads and sumps remediated. m) Areas and new tracks compacted by vehicles will be ripped. 	<p>Construction and Rehabilitation of Exploration Drill Sites ³</p>

³ https://nt.gov.au/_data/assets/pdf_file/0015/203334/aa7-029-construction-and-rehabilitation-of-exploration-drill-sites.pdf

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS	APPENDED INFORMATION
		<p>Creeks and associated riparian areas will be avoided by at least a 25m buffer zone so they are not impacted by site earthworks and drilling activities.</p> <p><u>Aquifer Management & Rehabilitation</u></p> <p>Given the geology there is a chance exploration drilling will encounter fractured aquifers with flow rates <5L/s. The drilling contractor will be instructed to use biodegradable drill consumables, collar casing, ensure effective plugging, capping and cementing of isolating aquifers.</p> <p>The most likely scenario is that of a single unconfined aquifer is intersected during drilling. In this case the driller will record the upper bound of the aquifer. When the hole is completed, the PVC collar will be cut below ground level to a minimum depth of at least 0.4m and a non-degradable plug or casing cap installed. Soil will be backfilled over the plug/cap and mounded to ensure settlement does not leave a depression at surface.</p> <p>If a confined aquifer is intersected, the driller will record the upper and lower bounds of the aquifer. When the hole is completed, the driller will place a bridge at least 2m below the confining bed interface and cement grout the hole to at least 2m above the interface. The upper part of the hole will then be plugged and backfilled as above.</p> 	

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS	APPENDED INFORMATION
<p>Step 5:</p> <p>Are there Aboriginal sacred sites in the Project area?</p>	NO	<p>The project area occurs away from any recorded sacred sites on the current Natural Resources Maps produced by the NT Governments Dept of Environment, Parks and Water Security.</p> <p>An Abstract of Records dated 29/09/2020, states 'there is currently no recorded sacred sites located on the parcel of land'.</p> <p>Records show a previous Authority Certificate was granted over the same Oonagalabi prospect area, Ref. No. C2008/220.</p> <p>An AAPA Authority Certificate is in the process of being applied for.</p> <p>All proposed work activities will adhere to all relevant work conditions within the above AAPA certificates.</p> <p>Comet follows a specific procedure for unexpected heritage finds, communicated to all on-site personnel during site-specific inductions. This process will be implemented if any suspected heritage artifacts are found, and relevant authorities will be promptly informed of the discovery with location details.</p>	<p>https://nrmaps.nt.gov.au/nrmaps.html</p> <p>Document A7.16. AAPA Request for Info EL32279.pdf</p> <p>Figure A7.16. Document A7.16. Map AAPA Request for Info EL32279.pdf</p>

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS	APPENDED INFORMATION
<p>Step 6:</p> <p>Are there archaeological and heritage sites in the Project area?</p>	NO	<p>None of the planned holes or associated works will impact any identified heritage sites.</p> <p>An online review of the NT heritage register indicated there are no known registered heritage site in the project area.</p> <p>Comet follows a specific procedure for unexpected heritage finds, communicated to all on-site personnel during site-specific inductions. This process will be implemented if any suspected heritage artifacts are found, and relevant authorities will be promptly informed of the discovery with location details.</p>	<p>https://nrmaps.nt.gov.au/nrmaps.html</p> <p>http://www.ntlis.nt.gov.au/heritageregister/</p>

3. AMENDMENTS

Section	Amendment

4. ACTIVITIES PROPOSED

The proposed activities below comprise the expected 2024 program.

Mining Interests	EL32922
Number and type of proposed drill holes	1 Diamond Drill Hole (DDH) 5 Reverse Circulation holes (RC)
Maximum depth of proposed holes (m)	300m
Number and size of drill pads to be cleared (Length: m x Width: m)	6 drill pads 50m x 40m with two sumps each
Total area of drill pads to be cleared (ha)	1.2ha
Number of proposed water bores	None
Is drilling likely to encounter groundwater in multiple or confined aquifers?	Low to no chance of a confined aquifer as the area is composed of metamorphic rocks with no primary permeability. Low chance of intersecting fractured aquifers with flows <5 L/s and salinities >1500 mg/L.
Number of costeans	None
Number of bulk sample pits	None

Mining Interests	EL32922
Length of line/track clearing (2km x 3m)	<p>Temporary tracks connecting drill pads to existing station tracks.</p> <p>Leading off the main access track, two forked access routes would start heading south to the base of the hill. The last route would continue on the old access track to the East.</p> <p>It would require a maximum total of 2km of track to be established.</p>
Area of proposed line/track clearing (ha)	0.6ha
Camp area to be cleared (ha)	0.4ha
Camp Infrastructure a complete list with measurements as required in the security calculation	All temporary, likely 2 caravans (6m x 2m), 2 tents (8m x 8m), 6 swags (2m x 1m), 1 shower 1m x 1m), 1 kitchen area (4m x 4m), 1 laundry (2m x 2m)
Other	Laydown and turn around 0.2 ha
Total area disturbed proposed (ha)	2.4 ha

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.⁴

⁴ [Disturbance Tracking Sheet](#)

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

Justification and Alternative Management Measures:

6.10 – If drill holes are to be kept open for subsequent extension and/or downhole geophysics, they will be securely capped with a removal cap and rehabilitated fully when works are completed.

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 (zigzag).
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.
7.9	<input checked="" type="checkbox"/>	Access through watercourses will be removed and banks restored.
7.10	<input checked="" type="checkbox"/>	All previously disturbed areas will be stable, with no evidence of active soil erosion.
7.11	<input checked="" type="checkbox"/>	All excavations will be backfilled within 6 months of their completion.
7.12	<input checked="" type="checkbox"/>	All water bores will be decommissioned unless otherwise agreed in writing by the land holder or appropriate third party.
7.13	<input checked="" type="checkbox"/>	All rubbish and infrastructure will be removed from site.
7.14	<input checked="" type="checkbox"/>	Topsoil will be replaced, and vegetation re-established.
7.15	<input checked="" type="checkbox"/>	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be rehabilitated 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:

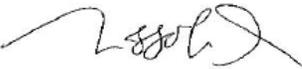
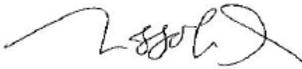
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8. REQUIRED ATTACHMENTS

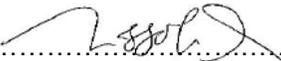
8.1	Y	Initial Application for Authorisation or variation of Authorisation (only if details on the form have subsequently changed). Appendix 1
8.2		Nomination of Operator Form, where required
8.3	Y	Security Calculation Spreadsheet Appendix 2
8.4	Y	Evidence of Land Access Agreement if operating on an Exploration Licence (EL) on Pastoral Lease (e.g. two-ways exchange of email) Appendix 3
8.5	Y	Disturbance tracking spreadsheet (for existing Authorisations) Appendix 4
8.6	Y	Spreadsheet with coordinates of proposed drill holes or polygons of target areas Appendix 5
8.7	Y	KML/shape files/track logs of proposed tracks, camp sites and proposed drill holes or polygons of target areas Appendix 6
8.8	Y	Map(s) of the work area(s) showing: <ul 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. rehabilitated areas 5. camp sites 6. heritage sites or significant environmental areas 7. environmental constraints Appendix 7
8.9		Radiation Management Plan (if applicable)
8.10	Y	Document(s) being appended in relation to Section 2 (if any): Document A7.13. Map MacDonnell Ranges Bioregion.pdf Document A7.16. AAPA Request for Info EL32279.pdf

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		12/12/2023	12/12/2023
Name		Matthew O’Kane	Matthew O’Kane
Signature			

I Matthew O’Kane, Managing Director at Comet Resources Limited 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: 12/12/2023