

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	Mt Romance Project
Authorisation Number Insert existing authorisation number, where applicable	1004-01
Operator Name Use ASIC-ABR registered name (if a company), or name of the applicant	Mt Romance (NT) Pty Ltd
Location and Access Details Include brief description of the location, access details, and distance to nearest town or community	Within EL 30280 which is on McKinlay River Station. Access from Darwin is southwards on the Stuart Highway then eastwards on the Arnhem Highway to the McKinlay River homestead access road. Access is then southwards past the homestead on internal station roads to the licence area. The nearest town or community is Humpty Doo.
Target Commodity Details Include target commodities (i.e. gold, copper etc)	Gold
Mining Activities Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation	Add updated bulk sampling program to the approved current authorisation. It is planned to have a maximum of 30 bulk sample test pits sighted within 2 polygons in the project area. Total tonnage to be tested is 30,000 tonnes . Total bulk sample pit area will be 2.0ha in a total polygon area of 249 Ha . 66 Ha of approved extraction area lost within block reduction.

<p>Proposed Schedule Include start and finish dates of ground disturbing work</p>	<p>July 2020 to June 2021</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
EL30280	Mt Romance (NT) Pty Ltd	14/10/2020	McKinlay River Station

Organisational Structure

Position Title	Name
Managing Director	Peter Maley
Mine Manager	Rick Smith
Senior Engineer	Neil Firouz
Environmental Manager	Neil Firouz

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)
Step 1: Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?	No	No Actions Required	There are no recorded threatened flora or fauna species within 5km of the work area.
Step 2: Are there any known declared weeds within the proposed work area?	No	No Actions Required	There are 2 outcrops of Hyptis located 2.5km to the south of the work area
Step 3: Will you be using water from bores or other sources for the operation?	Yes	No Actions Required	Water will be sourced from the pastoralist bore (with the landowners permission). Usage will not exceed 5 ML p.a.

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>With a current total pit disturbance area of 1.0ha and a depth less than 1.5m the bulk sample is unlikely to have a significant impact on the environment. These areas are located within the polygons described herein. The operators wish to permit another 1.0ha of disturbance area to allow for the stockpiling of the sample and the set up of the small sampling plant offsite. It is planned to store the sample tailings back in each of the excavated sample sites.</p>
<p>Step 5: Are there Aboriginal sacred sites in the Project area?</p>	No	<p>There are no recorded sacred sites in the area. See APPENDIX B in the original MMP</p>
<p>Step 6: Are there archaeological and heritage sites in the Project area?</p>	No	<p>There are no recorded archaeological and heritage sites in the area. See APPENDIX B in the original MMP</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
Section 1- Project Details	Updated proposed works, due to bulk sample update.
Section 4- Activities Proposed	Updated proposed works. Additional pits within approved work area polygons. Additional bulk sampling amount proposed.
General	Mt Romance are proposing further works to search areas for additional alluvial gold deposits. The gold occurrences are very fine and no nugget deposits have been found. The fine gold is known to only occur within the clay layers of the stratigraphy. Investigations of the gold occurrences are continuing.
Bulk Sampling Application	Inconsistencies between MMP and Bulk Sampling fixed.
Processing	Sampling plant erected off EL30280. One block of EL30280 was relinquished to allow for the sampling plant set up in the desired location.
Land Access Agreement	Please see Appendix 7 for a Land Access Agreement.
Rehabilitation	<p>Pits will be backfilled, shaped and remaining slopes battered for fauna egress. Stockpiled topsoil will be respread to aid revegetation. The landholder has provided a letter verifying that they would prefer natural revegetation, rather than re-seeding.</p> <p>Any areas that no longer require further works or testing will be rehabilitated within 6 months.</p> <p>Rehabilitation photos supplied in Appendix 6.</p>
Section 1	Section 1 amended to reflect section 4 works.
Section 2	Step 4 description amended.
Section 4	Pits will be up to approximately- 100m x 30m
Section 8	Please see map provided. Requirements are included.
Appendix 4	Updated site map.
Appendix 5	Updated digital files.
Appendix 6	Addition of Appendix to supply rehabilitation photos.
Appendix 7	Addition of Appendix to supply copy of the Land Access Agreement

Section	Amendment
<p>Site Inspection Actions</p>	<p>Environmental Outcomes</p> <ol style="list-style-type: none"> 1. The watercart was offsite getting fixed and serviced on the inspection day. Rick Smith will collect the vehicle when fixed. Roads and working areas will continue to be sprayed with water to suppress dust. 2. Rehabilitation works updated in section 5 to reflect works that have been rehabilitated. <p>MMP & Bulk Sampling</p> <ol style="list-style-type: none"> 1. Bulk Sampling Application has been reduced from 20,000t to 10,000t. 2. <ul style="list-style-type: none"> - Bulk sampling amount in MMP reduced to 10,000t - Only 2.5t has been bulk sampled so far. The gold occurrences are very fine and no nugget deposits have been found. The fine gold is known to only occur within the clay layers of the stratigraphy. Silver has also been found with the gold. Investigations of the gold occurrences are continuing. - Mt Romance require an additional 10,000t bulk sampling approval, as investigations into the gold occurrence is still being investigated. Future mining works within the pending ML applications on site depend on the results found in the bulk sampling works. - Reference removed from MMP and Bulk Sampling Application - All comments in Additional Information Request addressed

Section 4 – Activities Proposed

Mining Interests (i.e. titles)	EL30280
Number and type of proposed drill holes	0
Maximum depth of proposed holes (m)	0
Number and size of drill pads to be cleared (Length: m x Width: m)	0
Total area of drill pads to be cleared (ha)	0
Is drilling likely to encounter groundwater? (Y, N, unsure)	N/A
Number of costeans (Length: m x Width: m x Depth: m)	0
Number of bulk sample pits	Maximum 30 Pits- Totalling 2 Ha in area
Total bulk sample (tonnes) (Length: m x Width: m x Depth: m)	30,000 tonnes
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N)	Yes. 20,000 tonnes approved. Further 10,000 tonnes applied for.
Length of line/track clearing (km: x Width: m)	0
Camp area to be cleared (ha)	0
Camp Infrastructure (i.e. demountable, tents)	0.3 Ha 1 laundry- 6m X 3m- 18m ² 1 Crib Room- 12m X 6m- 72m ² 12 Room Accommodation Facilities- (12m X 6m) x 3 blocks - 216m ² 1 Generator- 1.5m X 1.5m- 2.25m ² 2 Rainwater tanks- 2.5m diameter- 9.818 m ²

Mining Interests (i.e. titles)	EL30280
Previous disturbance yet to be remediated on title (ha) if known	0
Other	0
Total area disturbed proposed (ha)	2.3

Section 5 – Previous Disturbance (for existing Authorisations only)

Mining Interests (i.e. titles)	EL30280
Number/type of holes drilled	21 RC
Maximum depth of holes drilled (m)	250
Number of holes remediated (i.e. plugged/capped)	21
Number and size of drill pads cleared (Length: 15 m x Width: 12 m)	75
Total area of drill pads cleared (ha)	1.35 Ha
Total area of drill pads remediated (ha)	1.35 Ha
Was groundwater encountered? (Y or N)	Yes
Length of line/track cleared (Length: 8 km x Width: 3 m)	8
Length of line/track remediated (Length: km x Width: m)	0
Number of costeans excavated (L: m x W: m x D: m)	54
Number of costeans remediated	54. A few costeans still to be checked and remediated. Will be remediated before the wet season 2020.

Mining Interests (i.e. titles)	EL30280
Total bulk sample pits excavated (Length: x Width: x Depth: m)	0
Total bulk sample pits remediated	0
Camp area/s cleared (ha)	0.3
Camp area/s remediated (ha)	0
Total area disturbed (ha)	3.78 Drill pads, costeans and camp
Total area remediated (ha)	3.48 Drill pads and costeans

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	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 remediation 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 mobilising vehicles and equipment from one location to another

6.12	Y	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	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 minimise 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 <i>Mining Management Act</i> .

Justification and alternative management measures:

--

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	Y	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	Y	Drill samples/spoil returned down drill holes, buried in sumps, or removed from site
7.3	Y	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site
7.4	Y	Re-contouring of cut and fill drill pads will be consistent with the surrounding terrain
7.5	Y	Ripping/scarifying of drill pads, and compacted areas along the contour (on sloping ground) and cross-ripping (zig-zag) along tracks
7.6	Y	Tracks will be remediated, including pushing in all windrows
7.7	Y	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur
7.8	Y	All tracks will be remediated unless otherwise agreed in writing by the land holder or appropriate third party
7.9	Y	Access through watercourses will be removed and banks restored
7.10	Y	No erosion is occurring in disturbed areas, on tracks and in remediated areas
7.11	Y	All excavations backfilled within 6 months of completion of drilling
7.12	Y	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>

Mining Management Plan Exploration Activities

7.13	Y	All rubbish and infrastructure will be removed from site
7.14	Y	Replacement of topsoil and vegetation
7.15	Y	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be remediated or removed from site
7.16	Y	Monitoring will be undertaken following the wet season or a significant rainfall event




Justification and alternative management measures:

Section 8 – Required Attachments

8.1	Y	Security Calculation Spreadsheet
8.2	Y	Nomination of Operator Form
8.3	Y	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.4	Y	Google Earth KML/shape files/track logs of proposed tracks and camp sites
8.5	Y	<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. sacred/heritage sites 7. environmental constraints
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	21 September 2020	21 September 2020	21 September 2020
Name	Holly Edgar	Peter Maley	Peter Maley
Signature			

I, Peter Maley, 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: 21 September 2020