

# Mining Management Plan Exploration Activities – AN0820 Dec 2020

## 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	Tanami
<b>Authorisation Number</b> Insert existing authorisation number, where applicable	AN0820-01
<b>Operator Name</b> Use ASIC-ABR registered name (if a company), or name of the applicant	Prodigy Gold NL
<b>Location and Access Details</b> Include brief description of the location, access details, and distance to nearest town or community	<p>Prodigy's Tanami project is located 400km west of Tennant Creek and 300 km south of Halls Creek. The Tanami Road is the main access route through the area.</p> <p>The Bluebush/Bonanza area is accessed from the Tanami Road via the Wilson's Camp access road or via Northern Star's Jim's pit haul road.</p> <p>The Suplejack project is accessed from the Tanami Road via the Lajamanu road or Groundrush haul road (Northern Star) and various access tracks established by previous explorers and operators.</p>
<b>Target Commodity Details</b> Include target commodities (i.e. gold, copper etc)	Gold
<b>Mining Activities</b> Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation	<p>Proposed drilling includes a <b>total of 250 AC/RAB holes – on ELs 9250, 28325, 28328 and 31289; and</b></p> <p><b>A total of 36 RC holes on EL 9250</b></p> <p>The entire Phase Two program approved in the 2020 MMP is withdrawn. None of the 2500 AC/RAB or the 204 RC/DD holes proposed have been drilled.</p>
<b>Proposed Schedule</b> Include start and finish dates of ground disturbing work	Drilling from March to December 2021

## 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
EL26628	Prodigy Gold NL/Altura Lithium Operations Pty Ltd	28/02/2021	Central Desert ALT/Mangkururra ALT/Mt Frederick (No.2) ALT
EL29828	Prodigy Gold NL/Altura Lithium Operations Pty Ltd	28/02/2021	Mangkururra ALT
EL5889	Prodigy Gold NL	21/08/2022	Central Desert ALT
EL23523	Prodigy Gold NL	10/12/2023	Central Desert ALT/ Purta AL/Yingualyalya ALT
EL28326	Prodigy Gold NL	02/01/2022	Central Desert ALT
EL31332	Prodigy Gold NL	13/07/2022	Suplejack Pastoral Lease
EL23659	Australian Tenement Holdings Pty Ltd <sup>2</sup>	19/03/2022	Central Desert ALT
EL24436	Australian Tenement Holdings Pty Ltd <sup>2</sup>	13/12/2021	Mt Frederick ALT and Mt Frederick (No.2) ALT
EL26610	Prodigy Gold NL	02/01/2022	Mt Frederick (No.2) ALT
EL26634	Prodigy Gold NL	22/08/2022	Central Desert ALT
EL27119	Prodigy Gold NL	22/08/2022	Central Desert ALT
EL27127	Prodigy Gold NL	02/01/2022	Mt Frederick ALT
EL27589	Prodigy Gold NL	22/08/2022	Central Desert ALT/Mt Frederick ALT and Mt Frederick (No.2) ALT
EL28327	Prodigy Gold NL	02/01/2022	Mt Frederick ALT and Mt Frederick (No.2) ALT
EL29860	Prodigy Gold NL	13/09/2022	Mt Frederick (No.2) ALT
EL31288	Australian Tenement Holdings Pty Ltd <sup>2</sup>	29/06/2022	Mt Frederick (No.2) ALT
EL31290	Prodigy Gold NL	29/06/2021	Central Desert ALT
EL31291	Prodigy Gold NL	29/06/2022	Central Desert ALT/Mangkururra ALT/Mt Frederick ALT/Mt Frederick (No.2) ALT
EL25194	Prodigy Gold NL	02/01/2022	Mt Frederick (No.2) ALT
EL26608	Prodigy Gold NL	02/01/2022	Mt Frederick (No.2) ALT
EL27378	Prodigy Gold NL	02/01/2022	Mt Frederick (No.2) ALT
EL28322	Prodigy Gold NL	02/01/2022	Mt Frederick (No.2) ALT
EL28324	Prodigy Gold NL	02/01/2022	Mt Frederick (No.2) ALT
EL28325	Prodigy Gold NL	02/01/2022	Mangkururra ALT
EL28328	Prodigy Gold NL	02/01/2022	Mt Frederick (No.2) ALT

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<b>Title Number</b>	<b>Title Holder</b>	<b>Expiry Date</b>	<b>Property Name or Land Holder</b>
EL28394	Prodigy Gold NL	29/06/2022	Mt Frederick (No.2) ALT
EL31289	Australian Tenement Holdings Pty Ltd <sup>2</sup>	29/06/2022	Mt Frederick (No.2) ALT
EL9250	Australian Tenement Holdings Pty Ltd <sup>2</sup>	02/10/2020 <sup>1</sup>	Central Desert ALT
EL26619	Prodigy Gold NL	06/09/2020 <sup>1</sup>	Central Desert ALT
EL27125	Prodigy Gold NL	06/09/2020 <sup>1</sup>	Central Desert ALT
EL27126	Prodigy Gold NL	02/01/2022	Central Desert ALT
EL27979	Prodigy Gold NL	02/01/2022	Central Desert ALT
EL31330	Prodigy Gold NL	25/08/2022	Central Desert ALT

1. Renewal applications are pending on these titles

2. Australian Tenement Holdings Pty Ltd is a wholly owned subsidiary of Prodigy Gold NL

## Organisational Structure

<b>Position Title</b>	<b>Name</b>
Managing Director	<b>Matt Briggs</b>
Exploration Manager	<b>Sam Ekins</b>
Project Geologist	<b>Ed Keys</b>
Project Manager (incl Environmental)	<b>Gary Ferris</b>
Land Manager	<b>Gillian McBain</b>

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 (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?	Yes	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.	Principles from the Biodiversity Management Plan developed for mining operations at Twin Bonanza applied to whole project area.
<b>Step 2:</b> Are there any known declared weeds within the proposed work area?	Yes	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).	Weed Management Plan. Proposed work areas are Aboriginal owned freehold land.
<b>Step 3:</b> Will you be using water from bores or other sources for the operation?	Yes	<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>	Water sourced from bores at Twin Bonanza Wilson’s Camp & Suplejack Station Confirmation received from DENR - Water Resources that project is exempt from water licensing requirements.

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	Refer to the NTEPA Environmental Factors and Objectives Guideline.
<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</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>No sites identified from AAPA register search or Central Land Clearance SSCC within areas subject to proposed drilling.</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 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.</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
1. Mining Interest and Land Ownership	Amend Tenement List to update expiry dates following grant of renewals
4. Proposed Activities	New proposed drilling activities included. Additional table added to indicate the number of holes approved in 2020 which have been drilled or are no longer required.
5. Previous Disturbance	Updated to include 166 AC holes drilled in 2020.

Delete or add rows as required

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### Section 4 – 2019 Approved Activities- Retained in 2020 MMP (AC/RAB/RC Drilling)

Mining Interests (i.e. titles)	EL26628	EL24436	EL27378	EL28322	EL9250	EL27979	EL9250	EL31291
Number and type of approved drill holes	100 AC/RAB	5 AC/RAB	10 AC/RAB	35 AC/RAB	320 AC/RAB	60 AC/RAB	75 RC	33 RC
Maximum depth of approved holes (m)	90m	90m	90m	90m	90m	90m	250 m	180 m
Number and size of drill pads to be cleared (Length: m x Width: m)	0	0	0	0	0	0	75	33
Total area of drill pads to be cleared (ha)	0	N/A	N/A	N/A	N/A	N/A	3.0 ha	1.32 ha
Is drilling likely to encounter groundwater? (Y, N, unsure)	N	N	N	N	N	N	Unsure	Unsure
Length of line/track clearing (km: x Width: 3 m)	8.51 km 2.553 ha	3.86 km 1.158 ha	13.45 km 4.035 ha	6.27 km 1.881 ha	9.23 km 2.769 ha	2 km 0.60 ha	4 km 1.6 ha	12 km 4.8 ha
Camp area to be cleared(ha)	0.25 ha	-	-	-	-	-		
Camp Infrastructure (i.e. demountable, tents)	Caravan /tents							
Previous disturbance yet to be remediated on title (ha) if known					4.887 ha		1.197 ha	
Total area disturbed proposed (ha)	2.803 ha	1.158 ha	4.035 ha	1.881 ha	2.769 ha	0.60 ha	4.60 ha	6.12 ha
Holes drilled 2019	20	0	0	0	177	0	17	12
Holes retained in 2020 MMP	80	5	10	35	143	30	58	21
Holes drilled in 2020	57	0	10	35	0	0	0	0
<b>Holes no longer required</b>	<b>23</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>143</b>	<b>30</b>	<b>58</b>	<b>21</b>

**Section 4 – 2020 Approved Phase One Activities (AC/RAB/RC Drilling)**

Mining Interests (i.e. titles)	EL27119	EL27378	EL28322	EL26628
Number and type of proposed drill holes	5 AC/RAB	30 AC/RAB	50 AC/RAB	10 RC
Maximum depth of proposed holes (m)	90m	90m	90m	300m
Number and size of drill pads to be cleared (Length: m x Width: m)	0	0	0	10
Total area of drill pads to be cleared (ha)	0	0	0	0.6 ha
Is drilling likely to encounter groundwater? (Y, N, unsure)	N	N	N	Y
Length of line/track clearing (km: x Width: 3 m)	Infill	See 2019 approved	See 2019 approved	Infill
Camp area to be cleared (ha)	0	0	0	0
Camp Infrastructure (i.e. demountable, tents)	0	0	0	0
Previous disturbance yet to be remediated on title (ha) if known	6.84 ha	-	-	0.91ha
Total area disturbed proposed (ha)	0 ha	0 ha	0 ha	0.6 ha
Holes drilled	5	19	45	0
Holes no longer required	0	11	5	10



**Section 4 – 2021 Proposed Activities (AC/RAB/RC Drilling)**

<b>Mining Interests (i.e. titles)</b>	<b>EL28325</b>	<b>EL28328</b>	<b>EL31289</b>	<b>EL9250</b>	<b>EL9250</b>
Number and type of proposed drill holes	130 AC/RAB	20 AC/RAB	50 AC/RAB	50 AC/RAB	36 RCD
Maximum depth of proposed holes (m)	90m	90m	90m	90m	500m
Number and size of drill pads to be cleared AC (raised blade sample pad: 3m x 5m RCD Length: 20m x Width: 30m)	70	20	50	50	10
Total area of drill pads to be cleared (ha)	0.11 ha	0.03 ha	0.08 ha	0.08 ha	2.16 ha
Is drilling likely to encounter groundwater? (Y, N, unsure)	Unsure	Unsure	Unsure	Unsure	Y
Length of line/track clearing (km: x Width: 3 m)	8 km 2.4 ha	2.7 km 0.81 ha	6 km 1.8 ha	Infill	Infill
Camp area to be cleared (ha)	0.25	Nil	Nil	Nil	Nil
Camp Infrastructure (i.e. demountable, tents)	Caravan/Tents	N/A	N/A	Caravan/Tents	Caravan/Tents
Previous disturbance yet to be remediated on title (ha) if known	-	-	-	-	8.506 ha
Total area disturbed proposed (ha)	2.76 ha	0.84 ha	1.88 ha		2.16 ha

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

Mining Interests (i.e. titles)	EL23659	EL26628	EL27119	EL27378	EL28322	EL29860	EL31290	EL31291	EL9250
Number/type of holes drilled	8 AC	77 AC	105 AC	29 AC	80 AC	15 AC	95 RAB	505 AC	177 AC
Maximum depth of holes drilled (m)	98m	96m	114m	120m	120m	64m	121m	114m	75m
Number of holes remediated (i.e. plugged/capped)	8	77	105	29	80	15	95	372	157
Number and size of drill pads cleared (Length:3m x Width:5m)	0	0	0	0	0	0	0	0	0
Total area of drill pads cleared (ha)	0	0	0	0	0	0	0	0	0
Total area of drill pads remediated (ha)	-	-	-	0	0	-	-	-	-
Was groundwater encountered? (Y or N)	N	N	Y	Y	Y	N	N	Y	Y
Length of line/track cleared (Length:km x Width: 3 or 4m)	(1.28km) 0.384 ha	(8.51km) 2.553 ha	(21.96km) 6.588 ha	(13.45km) 4.035 ha	(6.27km) 1.881 ha	(7.34km) 2.202 ha	(29.5km) 8.85 ha	(53.88 km) 16.164 ha	(16.29km) 4.887 ha
Length of line/track remediated (Length: km x Width: m)									
Camp areas cleared (ha)		0.25 ha	0.25 ha					-	-
Camp area/s remediated (ha)								-	-
Total area disturbed (ha)	0.384 ha	0.91 ha	6.84 ha	4.035 ha	1.881 ha	2.202 ha	8.85 ha	16.164 ha	4.887 ha
Total area remediated (ha)							0	0	0

**Section 5 – Previous Disturbance (for existing Authorisations only) continued**

<b>Mining Interests (i.e. titles)</b>	<b>EL31291</b>	<b>EL9250</b>
Number/type of holes drilled	39 RC	38 RC 2 RCD/DD
Maximum depth of holes drilled (m)	216m	370m
Number of holes remediated (i.e. plugged/capped)	27	23
Number and size of drill pads cleared (Length:20m x Width:20m)	39	40
Total area of drill pads cleared (ha)	1.56 ha	1.64 ha
Total area of drill pads remediated (ha)	1.08 ha	0.92 ha
Was groundwater encountered? (Y or N)	Y	Y
Length of line/track cleared (Length:km x Width: 3 or 4m)	(17.12 km) 6.848 ha	(6.29km) 2.516 ha
Length of line/track remediated (Length: km x Width: m)		
Camp areas cleared (ha)		0.423 ha
Camp area/s remediated (ha)		
Total area disturbed (ha)	8.408 ha	4.539 ha
Total area remediated (ha)	1.08 ha	0.92 ha

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

**6.7** Sumps for RC and AC (if required) will not be lined. RC sumps will be used to control groundwater discharge. Lining RC sumps is not practical as not all RC holes will intersect water and using a liner restricts water dispersal to evaporation only slowing down the remediation process. DD holes will be lined as it important to contain and recycle drilling water and contain drilling fluids and cuttings.

**6.16** All recyclable waste (aerosols, batteries, cans, etc.) is sorted and stored at Wilson’s camp then disposed at an appropriate waste facility in Alice Springs. Flammable and perishables (food scraps) are burnt at the Wilson’s camp dump (or field camp disposal pit) and all non-recyclable material is contained in the Wilson’s camp refuse site.

## 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:

7.1 In the event that groundwater in a confined aquifer is encountered during drilling, Prodigy will inform the Department and rehabilitate those drill holes using grout with concrete.

7.6 All access tracks will be remediated. Experience in the Tanami region has shown that, given the limited clearing undertaken for AC/RAB, ripping with machinery at the end of a program creates more significant disturbance. Therefore remediation of AC/RAB lines is limited to manual raking of compacted areas. Monitoring of AC/RAB lines is scheduled and remediation will be completed if required.




## Section 8 – Required Attachments

8.1	√	Security Calculation Spreadsheet
8.2	N/A	Nomination of Operator Form – provided previously
8.3	N/A	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	√	A map of the work area(s) showing: <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 – Unable to show sacred sites due to confidentiality restrictions in Exploration Agreements with CLC</li> <li>7. environmental constraints</li> </ol>
8.6	N/A	Remediation Register (for existing Authorisations) – currently being compiled following completion of a substantial rehabilitation program during 2020.
8.7	N/A	Photographs of remediation work – to be provided with the Rehabilitation Report to be prepared following the completion of the field season.
8.8	N/A	Radiation Management Plan (if applicable) – not applicable

**N/A – Not attached**

## 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.

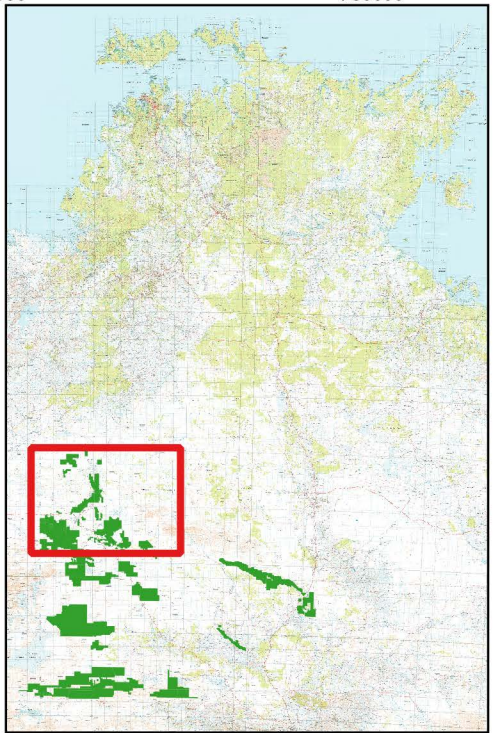
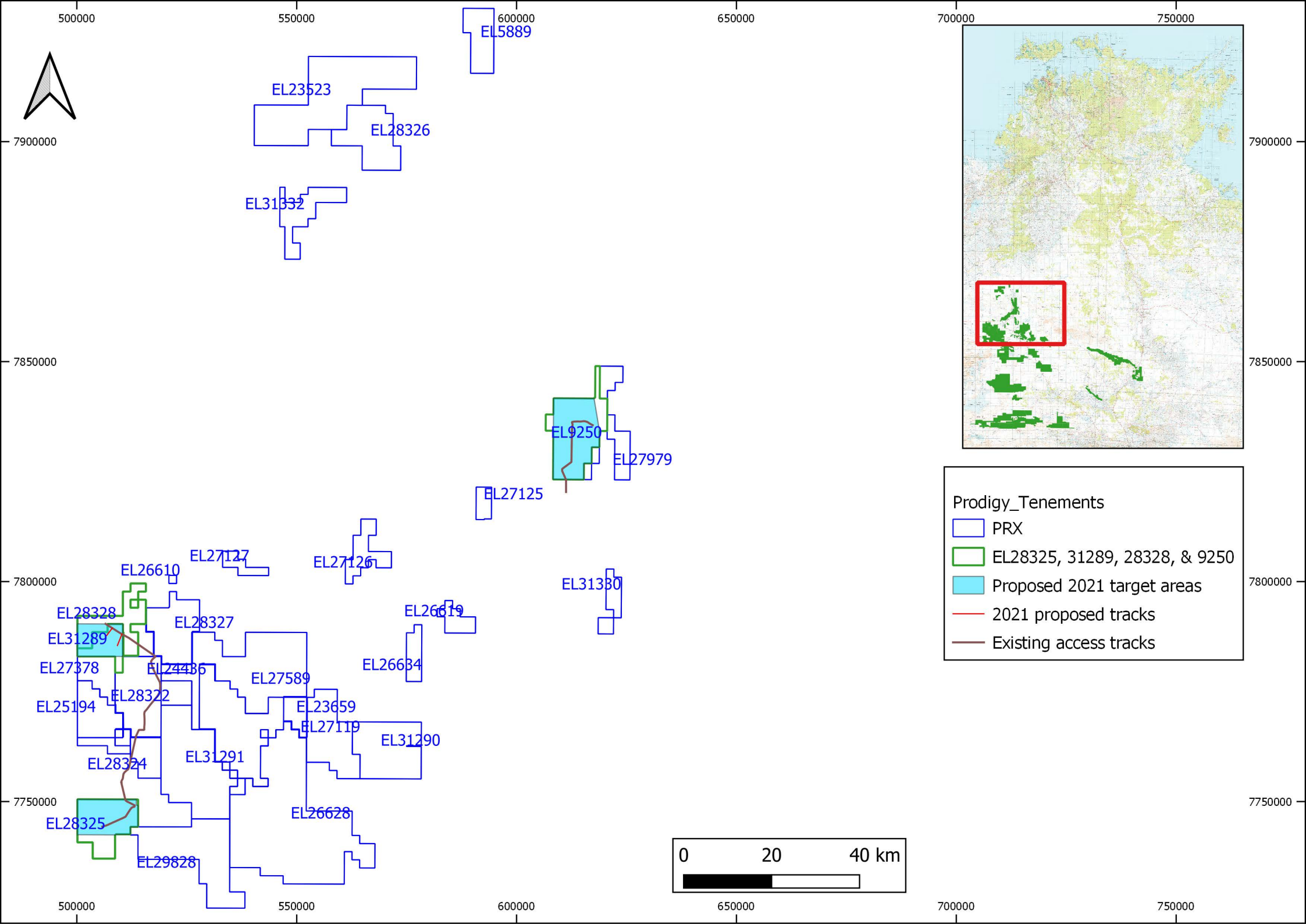
	Author	Reviewed by	Approved by
Date	26 November 2020	8 December 2020	17 December 2020
Name	Sam Ekins	Gillian McBain	Matt Briggs
Signature			

I, Samuel Ekins, 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: 17 DECEMBER 2020



**Prodigy\_Tenements**

- PRX
- EL28325, 31289, 28328, & 9250
- Proposed 2021 target areas
- 2021 proposed tracks
- Existing access tracks

