

BACKGROUND INFORMATION DOCUMENT

FOR THE PROSPECTING RIGHT APPLICATION.

APPLICANT NAME	DMRE REFERENCE NUMBER
AFLI EXPLORATION 3 (PTY) LTD	KZN30/5/1/1/2/11352PR

DATE: MAY 2023

PRESENTED BY



1. BACKGROUND OF THE OPERATION

AFLI Exploration 3 (Pty) Ltd, have applied for prospecting rights for Lithium, Feldspar, Tin, Tantalum/Niobium, zinc, and Dimension stone (General) on the farms reflect in table 1 below, situated in the magisterial district of Port Shepstone.

Table 1: Application details summary for prospecting right application: KZN 30/5/1/1/2/11352 PR

DMRE Ref:	KZN30/5/1/1/2/11352 PR
Farm name:	Portions 5,8,9,11,12,24,25,31,34,36 of farm EQUEEFA 17559 ET Portion 1 of farm EQUEEFA 2162 ET Remaining extent of farm UMZINTO RIVER DAM 15572 ET Remaining extent of farm CROOKES 17407 ET Portion 5 of farm UMZINTO SUGAR CO 1403 ET
Application area (Ha):	4 309 ha
Magisterial District:	Port Shepstone Magisterial District

Joan Consulting Pty (Ltd) has been appointed as the independent Environmental Assessment Practitioner (EAP) to undertake and facilitate all processes required for this application. The process to be followed to obtain the environmental authorisation for these applications is the Basic Assessment process.

Project Locality

The projects **KZN30/5/1/1/2/11352 PR** is situated in close to Umzinto /Esperanza under the Port Shepstone Magisterial District.

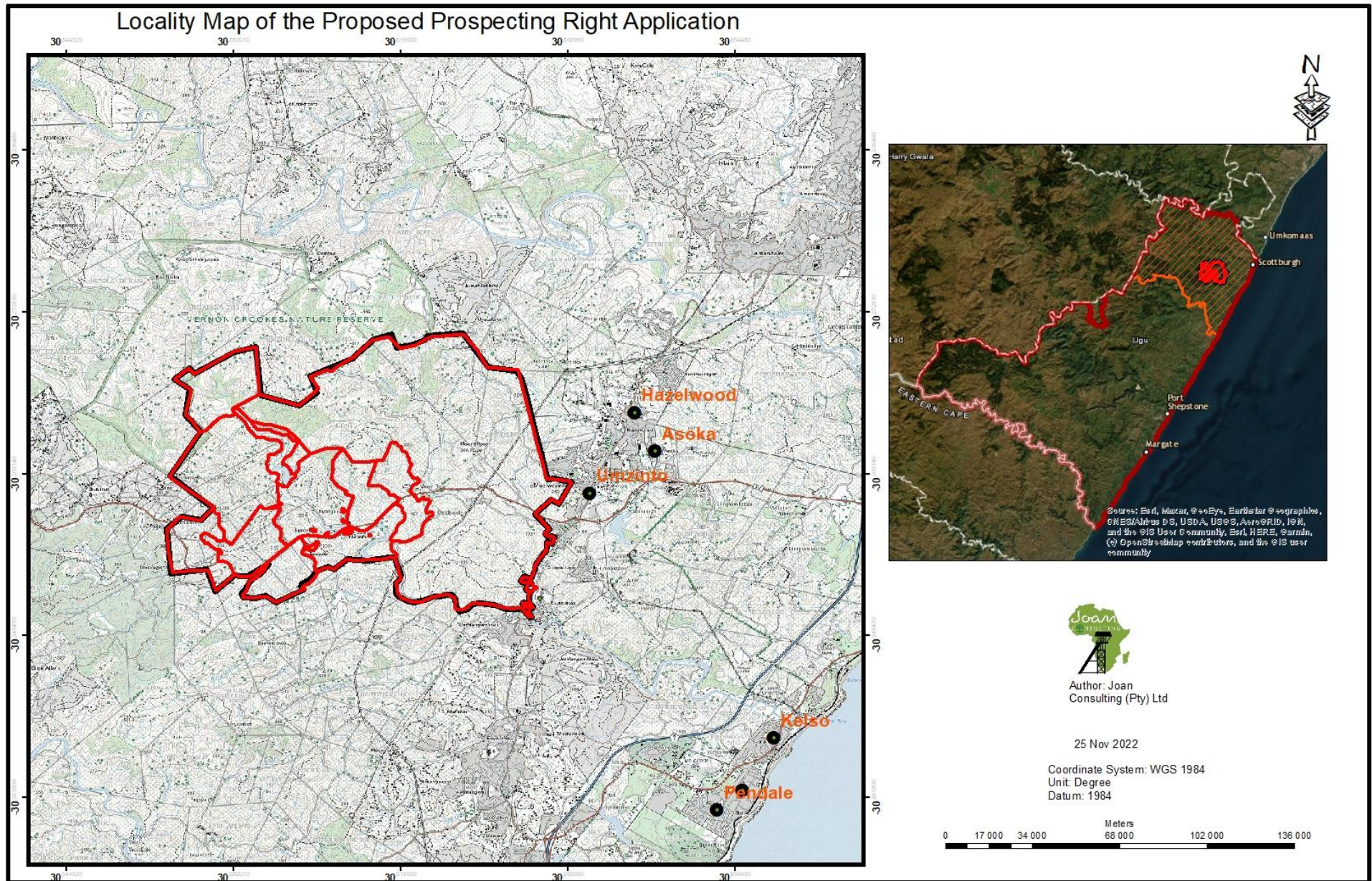


Figure 1: Locality Map of Application KZN 11352PR

2. LISTED ACTIVITIES TO BE AUTHORISED.

Table 2 below shows the activities to be authorised as part of the prospecting right.

Table 2: Activities to be authorised

Name of Activity	Aerial extent of the Activity Ha or m ² for each application	Listed Activity	Applicable Listing Notice
Any activity including the operation of that activity which requires a prospecting right in terms of section 16 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002),	The applied area for each application	Yes	Activity 20- GNR R327 of 2017
Site Establishment and associated infrastructures	±500 m ²	No	Activities associated with Activity 20
Office/core yard			
Mobile Ablution			
Equipment Storage			
borehole- drill sites- with water sump (The clearance of an area of 1 hectare for drill holes)	4000 m ² (±100m ² X 20 drill sites)		
Access road- the project will use the existing road	-		
Removal of vegetation	<1ha	No	
Total disturbed area for each site	±4500 m ²		

3. PROJECT DESCRIPTION

Phase 1: Site Preparation and Construction

Site Preparation

- Site Preparation will involve infrastructure placement such as an ablution facility (mobile chemical toilet) and waste Bin.
- General waste will be separated from hazardous waste and will be disposed of at a registered landfill site. No buildings will be erected on site.
- The facility or equipment areas used will be less than 1000m² and will be rehabilitated once operation ceases.

Phase 2: Operational.

The operational phase entails the drilling of up to 40 boreholes per site. The borehole depth will range from 30 to about 150m. A drill rig, lined sump and water cart are the equipment that are normally at a drill site.

4. LANDOWNER'S CONSULTATIONS

Landowners are key stakeholders in the proposed projects. Landowners are requested to give consent to the environmental assessment practitioners to undertake a visual inspection of their land in order to do an informed assessment and recommendation for the applications. This assessment assist in that the report will provide customised recommendations for that talks to the land use and sensitivity on the farms. E.g., recommendations for the macadamia nuts plantation may be slightly different for the banana plantations recommendations. Their involvement is crucial.

Landowners are not expected and should not stop using and developing their land as they deem fit. This is because the prospecting project should it be approved, will have minimal impact on the current land uses and if the prospecting activity impacts on the livelihood business onsite, the applicant will discuss the compensation of such impact with each affected landowner.

5. GENERIC IMPACTS RELATED TO THE PROSPECTING ACTIVITIES AND THEIR MITIGATION MEASURES.

Impact	Mitigations
Generation and dispersal of Dust	<ul style="list-style-type: none"> • spray water when drilling to suppress dust dispersal. • avoid unnecessary vegetation removal. Instead of removal, trim the vegetation for ease of access & location of the rig and only remove vegetation where required for the sump and the hole. • Rehabilitate the denuded surface as soon the drilling is complete.
Increased noise levels from movement of vehicles	<ul style="list-style-type: none"> • the drill rig and associated vehicles must be serviced to prevent excessive noise due to machinery malfunction. • Work should be conducted during daytime only to minimise disruption of neighbours and animal life.
Habitat disruption & destruction (vegetation removal) and impact of sensitive ecosystems species	<ul style="list-style-type: none"> • Map the drill sites and indicate the buffer zones. • Maintain necessary buffer zones from sensitive environments like the wetland, water courses, natural forest, etc. • avoid unnecessary vegetation removal. Instead of removal, trim the vegetation for ease of access & location of the rig and only remove vegetation where required for the sump and the hole. • Use already available farm roads and avoid creating new routes. • Rehabilitate the denuded surface as soon the drilling (at each site) is complete.
Impact on graves and other archaeological artifacts	<ul style="list-style-type: none"> • Maintain necessary buffer zones for all burial sites. • Burial sites must be mapped. • Consult Landowners and community members to identify burial sites before prospecting. • Use chance find procedure to cater for accidental finds.
Disturbance to animals on site	<ul style="list-style-type: none"> • Do not disturb nests, breeding sites or young ones. • Do not attempt to kill or capture snakes unless directly threatening the safety of employees. • Dogs or other pets are not allowed to the work site as they are threats to the natural wild animal. • A low-speed limit should be enforced on site to reduce animal-vehicle collisions. • No animals should be intentionally killed or destroyed and poaching and hunting should not be permitted on the site.

	<ul style="list-style-type: none"> • Severe contractual fines must be imposed with and immediate dismissal in case of non-compliance.
Soil erosion and stream sedimentation	<ul style="list-style-type: none"> • avoid unnecessary vegetation removal. Instead of removal, trim the vegetation for ease of access & location of the rig and only remove vegetation where required for the sump and the hole. • Use already available farm roads and avoid denuding surfaces when creating new routes. • Rehabilitate the denuded surface as soon the drilling (at each site) is complete. • Avoid drilling on steep slopes if possible.
Establishment and spread of declared weeds	<ul style="list-style-type: none"> • Rehabilitate the denuded surface as soon the drilling (at each site) is complete. • Plant the indigenous grass species on denuded areas to prevent the alien weeds from colonizing the area.
Loss of fertile topsoil and land capability	<ul style="list-style-type: none"> • The construction footprint should be kept as small as possible; Keep as much original land cover as possible. • Stripped soil should be stockpiled and put back during rehabilitation. • Rip the compacted soil to aid re-vegetation
Soil Compaction	<ul style="list-style-type: none"> • Vehicles and machinery must only use the existing routes. Where no route exists, the Environmental Control Officer must guide on the less invasive route. • Avoid unnecessary vehicle and drill dig movements onsite to minimize soil compaction. • Rip the compacted soil to aid re-vegetation during rehabilitation.
Soil and water contamination from hydrocarbon spills	<ul style="list-style-type: none"> • Clean all hydrocarbon spills from machinery immediately and dispose of contaminated soils at a permitted site. • Drip trays must be placed under parked machinery and vehicles. • The contents of drip trays are to be treated as hazardous waste. • Vehicle repairs onsite is prohibited
visual impact by drill equipment and dust	<ul style="list-style-type: none"> • •move the drill rigs offsite when the prospecting activity is completed • Undertake dust suppression whenever necessary.

Impact on landowners livelihoods	<ul style="list-style-type: none"> • The applicant must consult with each landowner to discuss the location of the drill sites to minimise the impact and to agree on the compensation.
Fear of farm attacks by farmers due to strangers in their property the area	<ul style="list-style-type: none"> • Introduce the contactor team to the landowners to assist in identifying the team. • Comply with all the local safety requirements
Generation and management of waste	<ul style="list-style-type: none"> • provide a bin onsite. • Empty the bin and dispose of the waste at the municipal pick-up area. • Litter bins must be equipped with a closing mechanism to prevent their contents from over following and blown by the wind. • Empty litter bins regularly to avoid overflow. • Proper ablution facilities on site must be provided.
Work injury- impacting on the wellbeing of employees	<ul style="list-style-type: none"> • Proper protective equipment must be allocated to all personnel working onsite. • Toolbox talk must be conducted to address the risk associated with the proposed project

4. Public Participation Process (PPP)

This document is to inform you about the proposed activity and to determine whether there are any concerns or objections from Interested and Affected Parties (I&AP's) that need to be considered.

The PPP serves to: -

- Provide I&APs with information about the proposed development and associated potential impacts.
- Allow I&APs the opportunity to comment or raise concerns on the proposed projects.

Getting Involved

As an Interested and Affected Party, you are requested to do the following.

- a) complete the comments form attached overleaf (below) and give any comment, concern, or input regarding the project.
- b) Review and comments on the draft Basic Assessment report that will be made available after the site visit.

Contact Details

Please contact Lufuno Mutshathama on 011 791 5032 or 073 912 0800 or at Lufuno@joanprojects.co.za for more information or enquiry.

REGISTER/INPUT FORM

CONTACT DETAILS

Name/	
Organisation	
Interest	
Postal Address	
Tel	
Fax	
E-mail	

COMMENTS:

Objection /No Objection:	
Request additional information:	
Concerns:	

Signature: _____