



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

IMPORTANT NOTICE

Kindly note that:

1. As from 8 December 2014, this document serves as the application form, and incorporates the requisite documents that are to be submitted together with the application for the necessary environmental authorisations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is in effect; as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use licence and any other authorisations nor licences to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right

or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR.

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMA BAR application on its own	R 2 000.00	<input checked="" type="checkbox"/>
NEMWA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMWA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	<input type="checkbox"/>
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	<input type="checkbox"/>

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

2. DETAILS OF THE APPLICANT

Project applicant:	Tajiri Projects (Pty) Ltd		
Registration no (if any):	Reg No: 2018 / 338490 / 07		
Trading name (if any):	Tajiri		
Responsible Person, (e.g., Director, CEO, etc):	Bhebhe, Mhlomuli		
Contact person:	Mhlomuli		
Physical address:	Residential: 20 AMBER CRESCENT, PEBBLE CREEK ESTATE, GREENSTONE,		
Postal address:	Same as above		
Postal code:	2090	Cell:	0721728374
Telephone:	0120036593	Fax:	n/a
E-mail:	Nkule02@gmail.com		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Nonkululeko Mbasane		
Professional affiliation/registration:	Professional Scientist		
Contact person (if different from EAP):	Ripfumelo Macevele		
Company:	BGES Pty Ltd		
Physical address:	Byls Bridge Office Park, C/r Olievenhoutbosch and Jean Ave, Centurion		
Postal address:	P O Box 68832, Highveld		
Postal code:	0169	Cell:	0791789655
Telephone:	0659108128	Fax:	0865156638
E-mail:	info@beyondges.co.za		

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by the NEMA Regulations, prior to the commencement of the process.

The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as **Appendix 1**.

4. PROJECT DESCRIPTION

Farm Name:	Farm no 160 Holfontein
Application area (Ha)	4613 Ha
Magisterial district:	Mankwe District Municipality
Distance and direction from nearest town	18km North-West of Suncity
21-digit Surveyor General Code for each farm portion	T0JP0000000001600000
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as Appendix 2
Description of the overall activity. (Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, technical co-operation permit, Additional listed activity)	<p>Tajiri Projects is undertaking exploration activities for chrome, vanadium ore, iron ore, nickel, manganese ore and platinum ore.</p> <p>The work required through the prospecting phase will consist essentially of a desktop study, geological mapping, soil geochemistry interpretation and airborne geophysics interpretation in order to establish the potential occurrence of the required minerals. Follow up ground geophysics and pitting will be done in the phase 1b. This is expected to take twelve months.</p> <p>It is anticipated that once targets have been generated drilling programme can be designed to test the identified targets. Once this has been achieved there will be need to evaluate the project before further drilling is planned. Thereafter, the project should be sufficiently advanced to justify a pre-feasibility study.</p> <p>It should be noted that all work and exploration estimates (other than the prospecting g phase) are speculative and are presented here only by way of illustration.</p> <p>Phase 1a – Desktop Study - Analysis of Existing Data, The exploration records of all previous work in the area will be re-examined, and the following studies will be carried out:</p> <p>Literature review</p> <p>Detailed aerial photograph and satellite image interpretation.</p>

Regional airborne geophysics with main emphasis on magnetic and gravity

Regional soil geochemistry interpretation

Geological mapping will also be carried out.

These records will need to be captured into a GIS format for geological modelling and exploration scheduling analysis. This work will form an initial desktop and surface fieldwork study to be continued during the period that the prospecting permit application is being assessed and, presumably, approved. A period of 6 months is estimated for this.

Phase 1b – Follow Up Ground Geophysics and Pitting

Once targets have been generated in the first phase there will be a need to follow up on these targets. Ground geophysics to sharpen the identified potential areas. Ground magnetics will need to be done.

After geochemical and geophysical targets are generated pitting exercise will be done on the anomalies to determine the sidewall properties, profiles and average grades and to do drill hole targeting.

Phase 2 - Drilling and Resource Generation

Drilling (Diamond, Aircore, or RAB or RC) of the prospective areas will commence to establish presence of mineralization. Geological borehole logging, down the hole logging and sampling will also be carried out.

Whole rock analysis of all the potential intersections will be carried out. For budgeting purposes, it is assumed that every meter of the initial holes will be analyzed will be made.

The geological information generated will be used to model and estimate resource. The resources will at least be expected to be in the Indicated Category according to the appropriate reporting standard (SAMREC, JORC, or NI43 -101).

Phase 3 - Resource Drilling

Initially, diamond drilling will be done at widely spaced intervals of nominally 500 to 1000m for this style of mineralisation to provide an Inferred Mineral Resource. The final drill spacing required will depend on a range of geological factors but will eventually be defined in consultation with a nominated Competent Person. This Resource is defined at a low degree of

confidence but is sufficient to be used to complete a Scoping Study to evaluate the economic feasibility of the project to advise the decision to continue to feasibility study work.

Phase 4 - Pre-feasibility Study

The final phase of the prospecting programme would involve preparation of a prefeasibility study. This would include:

- Resource drilling
- Geological Modelling
- Initial conceptual Mine Planning.
- Planning the infrastructure requirements
- Environmental management planning

5. ACTIVITIES TO BE AUTHORISED

(Please provide copies of Environmental Authorisations obtained for the same property as **Appendix 3**). N/A

(For an application that involves more than one listed activity that, together, makes up one development proposal, all the listed activities pertaining to this application must be indicated. Please note that any authorisation that may result from this application will only cover activities specifically applied for). (Attach a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for, as **Appendix 4**)
N/A

NAME OF ACTIVITY (E.g., For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 544, GNR 545 or GNR 546)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
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), including associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource, including activities for which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).	≤0.5ha for each borehole	X	GNR 983, activity 20	Not applicable
The removal and disposal of minerals contemplated in terms of section 20 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including associated	≤0.5ha for each borehole	X	GNR 984, activity 19	Not applicable

19. infrastructure, structures and earthworks, directly related to prospecting of a mineral resource, including activities for which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).				
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6. PUBLIC PARTICIPATION

(Provide details of the public participation process proposed for the application as required by Regulation.

Details of the Public Participation process to be followed.

6.1.1. IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	YES	NO
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	X	
Will a tribal authority or host community that may be affected be consulted?	X	
Will recipients of land claims in respect of the area be consulted?	X	
Will the landowners or lawful occupiers of neighbouring properties been identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?		X
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?		X
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify)	X	
Will the Provincial Department responsible for the environment be consulted?	X	
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	X	
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	
Other, Specify	According to National Water Act, a Water Use Licence will be required as the mining activities will occur on adjacent the River.	

6.1.2.DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p>Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultation. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix)</p>	<p>PROVIDE DESCRIPTION HERE</p> <p>Interested and Affected Parties (I&AP's) will be notified of the proposed exploration project application via registered letters, emails, and facsimiles. This notification will include a questionnaire requesting comment on the proposed project. Site notices will be placed in and around the proposed mining permit application area; in addition, one newspaper advertisements will be placed in the local newspaper which is widely distributed in the area. The Public Participation Process will be undertaken in accordance with the NEMA process and the 2014 Regulations. A minimum of 30 days will be provided to the public to register as I&AP's and to provide comments as per the questionnaire and review the draft Basic Report. A further 30 days will be provided to comment on the draft BAR. The information submitted by I&AP's in the questionnaire will be utilized during the Impact Assessment and compilation of the BAR.</p>
<p>Information to be provided to Interested and Affected Parties.</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • The site plans. • List of activities to be authorised • Scale and extent of activities to be authorised • Typical impacts of activities to be authorised (e.g., water quality, surface disturbance, dust, noise, drainage etc.) • The duration of the activity. • Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land) <p>Other, specify: The purpose of the proposed project. •The mining methods to be used. •Details of the affected properties (including parent farm and portion); •Details of the NEMA Regulations that must be adhered to; •The minerals being mined for; •Date by which comment, concerns and objections must be forwarded through to both Beyond Greening and the DMR respectively; •Contact details of the Environmental Assessment Practitioner (EAP); and •Contact details of the DMR and name of the relevant DMR official.</p>
<p>Information to be required from Interested and Affected Parties.</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions. • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity. • To provide information on current land uses and their location within the area under consideration. • To provide information on the location of environmental features on site to make proposals as to how and to what standard the impacts on site can be remedied; Requested to make written proposals • To mitigate the potential impacts on their socio-economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied). <p>Details of the landowner and information on lawful occupiers;</p> <ul style="list-style-type: none"> •Details of any communities existing within the area; •Details of any Tribal Authorities within the area. •Details of any other I&AP's that need to be notified; •Details on any land developments proposed. •Details of any perceived impacts to the environment that should be considered in the Draft BAR; and •Any specific comments concerns or objections to the proposed mining operation.

7. Description of the assessment process to be undertaken.

ITEM	DESCRIPTION
<p>Environmental attributes. Describe how the Environmental attributes associated with the development footprint will be determined.</p>	<p>The description of the existing status of the current receiving environment will be compiled through onsite inspections undertaken during several site visits by both EAP and the applicant. In addition, all I&AP's both landowners and Key I&AP's will be provided with a questionnaire to complete as part of the consultation process in which they are asked to describe the receiving environment in terms of current land uses, vegetation, sensitive features, fauna, flora, infrastructure and features of cultural or heritage significance. As such, the description of the existing status of environment that will be provided in the BAR will be compiled in agreement with I&AP's.</p>
<p>Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.</p>	<p>The identification of potential impacts and risks for assessment will be undertaken through I&AP consultation, public consultation and the development of an in depth understanding of the activities, actions and processes to be undertaken on site based on the EAP's experience with similar projects. As such, the potential impacts and risks on broad environmental aspects, in respect of the main project actions; activities and processes will be assessed during the Draft BAR process.</p>
<p>Consideration of alternatives. Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.</p>	<p>The identification and assessment of alternatives is a key component to the success of any EIA process. The first level alternatives include land use, location, mining method, and site access alternatives. These alternatives will determine the optimal placement and process for the proposed mining operation. After these viable alternatives have been assessed (if any), the level two alternatives including technology and site layout alternatives will be considered in order to ensure the best practicable option is proposed for the activity. With mining the option of land alternative is not practical since the mineral has been identified to be occurring on the site already...</p>
<p>Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.</p>	<p>Method of Assessing Impacts: The impact of a project, or activity associated with a project, on the environment may be positive, negative or neutral. Similarly, any impact may be reversible over time or irreversible. These aspects are described when assessing impact. A scoring method is used to evaluate the extent over which an impact may be expressed, the duration of the impact, the magnitude of the impact and the probability of occurrence of the impact.</p> <p>Extent of the Impact (1) Site only (2) Local i.e. site and immediate surrounds (3) Regional (4) National, or (5) International.</p> <p>Duration of the Impact (1) Immediate (<1 year) (2) Short term (1-5 years), (3) Medium term (5-15 years), (4) Long term (ceases after the end of the project), (5) Permanent.</p> <p>Magnitude of the Impact (0) None (2) Insignificant, (4) Low, (6) Moderate, environmental function is altered but system continues to function, (8) High, environmental function temporarily ceases, or (10) Very high, environmental function is permanently disrupted, or there is a high level of uncertainty on how the environment will respond</p>

	<p>Probability of Occurrence</p> <p>(0) none, the impact will not occur</p> <p>(1) Improbable, very low likelihood of occurrence</p> <p>(2) Low probability, unlikely to occur,</p> <p>(3) Medium probability, the impact could occur</p> <p>(4) High probability, the impact is likely to occur</p> <p>(5) Definite, or the likelihood is not known</p>
<p>Contribution of specialist reports Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment, and remediation process.</p>	<p>To this far Freshwater Impact Assessment specialist report will be commissioned, however this will be confirmed during the BAR process and consultation process.</p>
<p>Determination of impact management objectives and outcomes. Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards.</p>	<p>The objectives of the impact management measures shall be to firstly anticipate and avoid risks and impacts. This shall be accomplished through the adoption of a risk and impact assessment process which aims to identify all relevant environmental and social risks and receptors that are likely to be affected by such risks and impacts, including the issues identified by I&AP's during the consultation process. The impact and risk identification process shall take into consideration each activity and its associated potential impacts. The EMP developed for the project shall include mechanisms whereby social and environmental risk and impacts shall be avoided and mitigated. The objectives of this environmental management framework shall be:</p> <ul style="list-style-type: none"> •To anticipate potential risks and impacts associated with each activity pre-emptively through the implementation of risk assessment techniques and early warning systems such as environmental monitoring and inspections. •To develop and implement preventative measures to ensure known risks and impacts are addressed at source wherever possible (e.g., spill leakages prevention procedures) •To implement detailed management measures to ensure that where avoidance of impacts is not possible, mitigation measures are in place to minimize impacts. to workers, affected communities, and the environment. •To provide a framework for adaptive environmental management within the EMP whereby impacts from unplanned events or incidents caused by the project may be effectively controlled to minimise impacts to workers, affected communities, and the environment. <p>The management and mitigation measures shall be developed in accordance with applicable standards and guidelines, which shall include, but is not limited to:</p> <ul style="list-style-type: none"> •Legislated Standards (e.g., air quality guidelines and standards); •Applicable Guidelines developed by authorities (e.g. DMR guidelines, NEMA EIA guidelines);

8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMAs				
National Environmental Management: Air Quality Act		X		
National Environmental Management: Biodiversity Act		X		
National Environmental Management: Integrated Coastal Management Act		X		
National Environmental Management: Protected Areas Act		X		
National Environmental Management: Waste Act		X		
National legislation				
Mineral Petroleum Development Resources Act	X		X	
National Water Act	X		X	
National Heritage Resources Act		X		
Others: Please specify				

Please provide proof of submission of applications in **Appendix 5**.

If an authorization in terms of the National Environmental Waste Management Act is required for any of the activities applied for please state so clearly for such an authorisation to be considered as part of this application.

Not required

9. DRAFT EMPr

For consultation purposes, provide a high level approach to the management of the potential environmental impacts of each of the activities applied for.

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)	COMPLIANCE WITH STANDARDS
Core borehole drilling	Operation	≤0.5ha for every site to be drilled	The primary mitigation to limit environmental impacts and risks will be the appropriate siting of any prospecting activity at a locality that is of low sensitivity.	NEMA requirements and guidelines
Site preparation and vegetation clearance	Construction	≤0.5ha for every site to be drilled	Vegetation disturbance control; sediment and erosion control; dust control;	The typical mitigation measures recommended will comply with all prescribed environmental management standards and practices. These standards include the following:

				Dust control – National Ambient Air Quality Standard GNR No. 263 (24 December 2009); National Ambient Air Quality Standard GNR No. 486 (29 June 2012); National Ambient Air Quality Standards GNR No. 827 (1 November 2013).
Mobile Toilet	Operational	2m ²	Waste management; spill prevention	DWA mining guidelines, MPRDA and NEMA requirements and guidelines
Site Camp Establishment – including mobile container and storage, medical unit and firefighting equipment	Construction	50m ²	Site access control; noise control	Dust control – National Ambient Air Quality Standard GNR No.263 (24 December 2009); National Ambient Air Quality Standard GNR No.486 (29 June 2012); National Ambient Air Quality Standards GNR No. 827 (1 November 2013).
Water Abstraction (drilling borehole)	Operation		Operation ± 500 litres/day	Water use management

10. CLOSURE PLAN

In the space provided under each heading below, please provide a high level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft basic assessment report or environmental impact reports going forward.

<p>Baseline environment Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment</p>	<p>The baseline environment will be assessed as follows:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Background information <input type="checkbox"/> Basic Assessment Report <p>During the background stage of the project, a Sensitivity Mapping exercise will be undertaken. This will require a site visit by the EAP and the applicant to familiarise themselves with the proposed application area and broadly determine the existing status quo of the receiving environment. On completion of the site visit and baseline data collection, the EAP will utilise the obtained information and other available desktop and spatial information to determine site specific sensitivities and constraints.</p> <p>The BAR Report will conform to the requirements of the previously mentioned Acts and include the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A description of the receiving environment; <input type="checkbox"/> Identification and description of anticipated impacts; <input type="checkbox"/> A description of the methodology used in determining significance of identified impacts; Each identified impact will be assessed for significance by investigating and ranking the nature, duration, extent, magnitude and probability of each impact. <input type="checkbox"/> Identify and describe reasonable land use or development alternatives; <input type="checkbox"/> A detailed description of the need and desirability of the proposed activity including advantages and disadvantages that the activity will have to the environment and community; <input type="checkbox"/> A description of all identified impacts and an assessment of the significance of each impact before and after implementation of proposed mitigation measures; <input type="checkbox"/> Closure and Rehabilitation Plans & <input type="checkbox"/> A recommendation as to whether the activity should be authorised and under what conditions; <p>Public Participation Process: The Public Participation Process (PPP) will be robust and continue to engage interested and affected parties (I&APs) throughout the all phases of the project. As a result of the public notifications, a register will be opened and maintained which will record all contact details of</p>
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	<p>persons whom have submitted written comments or responded to the notification and who have requested that they be registered as I&APs.</p> <p>All registered I&APs will be informed of the required process of involvement as defined by the EIA regulations.</p>
<p>Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>Remove all the temporary infrastructure from the site camp and at prospecting sites.</p> <p>Closure actions for the prospecting activities would include:</p> <ul style="list-style-type: none"> - Sealing of drill hole - Back filling of sumps, pits, and trenches - Clean-up of surrounding areas, pollution, and waste materials - Spread overburden and topsoil evenly and re-vegetate disturbed areas to finalize the rehabilitation - Inspect rehabilitated areas to monitor re-vegetation rate and remove alien invader species that may establish in the area
<p>Rehabilitation Plan Describe the scale and aerial extent of the prospecting or mining listed activities to be authorised, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	<p>Rehabilitation</p> <ul style="list-style-type: none"> •Rip and seed the disturbed areas •Inspect rehabilitated areas to monitor re-vegetation rate as well as to remove alien invader species. <p>Rehabilitation of access roads</p> <ul style="list-style-type: none"> •Existing roads would be used as far as possible •Whenever the prospecting right is suspended /cancelled or lapses, such access roads shall be rehabilitated to the satisfaction of the Regional Manager •Any gate or fence set up by the holder shall be removed and situation restored to the pre prospecting state •Any temporary roads created, single tracks or formal shall be ripped or ploughed out and where necessary fertiliser (based on soil analysis) shall be applied to ensure the re-growth of vegetation <p>Rehabilitation of surface trenches /pit and drill holes</p> <p>On completion of the operations, all buildings, structures, or objects at the site camp shall be dealt with in accordance with Section 44 of the MPRDA Act. After tall foreign matter has been removed from the site, excavations shall be backfilled with subsoil, compacted, and levelled with previously stored topsoil. No foreign matter, such as cement or other hole rubble shall be introduced into such backfilling.</p> <p>On completion of prospecting operation, the areas shall be cleared of any contaminated soil. The surface shall then be ripped or ploughed to a depth of at least 300mm and the topsoil previously stored adjacent to excavations shall be spread evenly to its original depth over the whole area. The area shall then be fertilized if necessary. The site shall be seeded with a vegetation seed mix adapted to reflect the local indigenous flora. Where sites have been rendered devoid of vegetation or where soils have been compacted by heavy machinery, the surface shall be scarified and ripped.</p>
<p>Rehabilitation Cost Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	<p>In terms of section 24P of NEMA, an applicant for EA relating to mining/prospecting must before the Minister of DMR issues the EA comply with the prescribed provision for rehabilitation, closure and ongoing post decommissioning management of negative environmental impacts. The applicant will ensure that a rehabilitation fund is in place prior to any work being undertaken in the prospecting right area. The applicant will discuss and conclude the nature and quantum of the financial provision required for the management and remediation of environmental damage with DMR prior to right issuing and prospecting activities being undertaken. The proposed nature and quantum of the financial provision will be presented in the BAR.</p>
<p>Decommissioning Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity.</p>	<p>Once the operation has been completed, all areas disturbed by prospecting activities will be rehabilitated. The areas disturbed by operational activities will be in place for as long as there is a viable resource and will therefore only be rehabilitated once all prospecting activities are done. This will be undertaken in accordance with the rehabilitation and closure plan to be developed during the EIA BAR process.</p> <p>It is noted that an application for environmental authorisation must be submitted in accordance with Activity 22 GNR 983:</p> <p>The decommissioning of any activity requiring –</p> <ol style="list-style-type: none"> I. a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002); or II. A prospecting right, mining permit, production right or exploration right, where the throughput of the activity has reduced by 90% or more over a period of 5 years excluding where the competent authority has in writing agreed that such reduction in throughput does not constitute closure.



Signature of the applicant / ~~Signature on behalf of the applicant:~~

Pheno Mine

Name of company (if applicable):

Date: 12/01/2022

Appendix

DECLARATION OF THE EAP

I, Tshisevhe Tshifhango, declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application.
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report.
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.
- all the particulars furnished by me in this form are true and correct.
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 of the Regulations and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations.
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~



Signature of the environmental assessment practitioner

BGES Pty Ltd

Name of company:

Date:12/01/2022

Appendix 1: Details of EAP

Curriculum Vitae of Miss Tshisevhe Tshifhango**Personal Details**

Surname : Tshifhango
 First Names : Tshisevhe

Qualifications**Tertiary Education - Complete**

BSc Honours in Geology	University of the Witwatersrand	2019
Bachelor of Science (BSc.)	University of the Witwatersrand	2018

Professional Certifications

Sedimentary basins certificate from Total	2019
-------------------------------------------	------

Standards, Regulations and Laws familiar with

- Mineral and Petroleum Resources Development Act, 27 of 2002
- National Environmental Management: Protected Areas Act of 2003
- National Environmental Management: Air Quality Act
- National Water Act 36 of 1998
- National Environmental Management: Biodiversity Act 10 of 2004
- National Environmental Management: Waste Management Act 59, of 2008
- South African Heritage Resources Act
- National Environmental Management Act 107 of 1998
- Mine Health & Safety Act

CAREER HISTORY**1. Environmental scientist/Geologist:**

BGES Pty Ltd
 March 2020- to date

Responsibilities:

- Creating maps using GIS software e.g., ArcMap
- Develop mine/prospecting works programme.
- Provide support to the employer in terms of administration and day to day planning.
- Execute the process to obtain Environmental Approvals through Environmental Impact Assessment.
- Perform Environmental Investigations and audits
- Environmental Monitoring, Auditing & Reporting Develop Environmental Management Plans Conduct
- Water Use Licence Applications Undertake Public Participation
- Compilation of Stakeholder Engagement & Communication Plans

Key projects include:

Project description	Client	Role	Completion Date
Basic Assessment Process for the proposed sand mining operation at Mzinsangu	Mzinsangu Mining Group	Project assistant	In progress
Basic Assessment Process for the proposed coal mining operation at Ladysmith	Mfanini Trading	Project assistant	Completed
EIA and WULA for a sand mining operation	Umngeni Aggregates Pty Ltd	Project assistant	Completed
Basic Assessment Process for the proposed coal mining operation at Newcastle	Convocado Pty Ltd	Project assistant	In progress
Basic Assessment Process for the proposed coal mining operation at Msinga Municipality	Ngxangisaphila Suppliers	Project assistant	Completed
EIA and BAR to establish a business site and filling station at Ethekewini Municipality	Bouvardia Green Consultancy Cc	Project assistant	In progress
Basic Assessment Process for the proposed sand mining operation at Umzumbe Municipality	Mfzizikashingwane Trading	Project assistant	Completed
Basic Assessment Process for the proposed aggregate mining at Jozini Municipality	Gumede Rural Development	Project assistant	In progress
Basic Assessment Process for the proposed coal mining operation at Dannhauser Municipality	Umsobomvu Coal	Project assistant	In progress
Basic Assessment Process for the proposed viable mineral prospecting operation at Musina	Bunono resources	Project assistant	In progress
Basic Assessment Process for the proposed sand mining operation at Umzimkulu Municipality	SSR Security	Project assistant	Completed



UNIVERSITY OF THE WITWATERSRAND,
JOHANNESBURG

At a congregation of the University

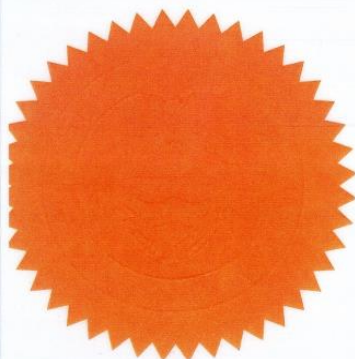
held on 20 March 2019


Tshisevhe Tshifhango

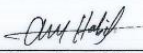
was admitted to the Degree of

Bachelor of Science Honours

(Geology)




Acting Dean : Faculty of Science


Vice-Chancellor and Principal


Registrar



UNIVERSITY OF THE WITWATERSRAND,
JOHANNESBURG

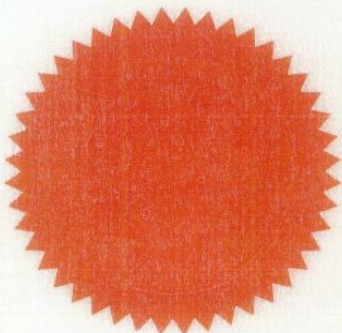
At a congregation of the University

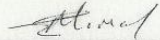
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Tshisevhe Tshifhango

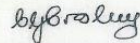
was admitted to the Degree of

Bachelor of Science




Dean: Faculty of Science


Vice-Chancellor and Principal


Registrar

Appendix 2: Layout map of the proposed mining permit application site

