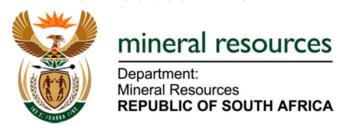
PORTION 1 AND 2 OF PETERSBURG OF ORIBI VLAKTE 6534 GT FARM_BAR + EMPR (KZN30/5/1/1/2/11185PR)



FINAL BASIC ASSESSMENT REPORT

And

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

SUBMITTED FOR ENVIRONMENTAL AUTHORIZATIONS 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).

NAME OF APPLICANT: Wafira Assets (Pty) Ltd

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POSTAL ADDRESS: PostNet Suite #157, Private Bag X121, Halfway House, 1685.

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FILE REFERENCE NUMBER SAMRAD: KZN30/5/1/1/2/11185 PR

Date: 27January 2022

PORTION 1 AND 2 OF PETERSBURG OF ORIBI VLAKTE 6534 GT FARM_BAR + EMPR (KZN30/5/1/1/2/11185PR)

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1. IMPORTANT NOTICE

In terms of the National Environmental Management Act No.107 of 1998 as amended, a Basic Assessment process is required to obtain environmental authorization for the activities, as per the EIA Regulations (2014) promulgated in terms of NEMA, the Minister must grant a prospecting or mining right if among others the mining "will not result in unacceptable pollution, ecological degradation or damage to the environment".

Unless an Environmental Authorisation can be granted following the evaluation of an Environmental Impact Assessment and an Environmental Management Programme report in terms of the National Environmental Management Act (Act 107 of 1998) (NEMA), it cannot be concluded that the said activities will not result in unacceptable pollution, ecological degradation or damage to the environment.

In terms of section 16(3)(b) of the EIA Regulations, 2014, any report submitted as part of an application must be prepared in a format that may be determined by the Competent Authority and in terms of section 17 (c) the competent Authority must check whether the application has considered any minimum requirements applicable or instructions or guidance provided by the competent authority to the submission of applications.

It is therefore an instruction that the prescribed reports required in respect of applications for an environmental authorisation for listed activities triggered by an application for a right or a permit are submitted in the exact format of, and provide all the information required in terms of, this template. Furthermore, please be advised that failure to submit the information required in the format provided in this template will be regarded as a failure to meet the requirements of the Regulation and will lead to the Environmental Authorisation being refused.

It is furthermore an instruction that the Environmental Assessment Practitioner must process and interpret his/her research and analysis and use the findings thereof to compile the information required herein. (Unprocessed supporting information may be attached as appendices). The EAP must ensure that the information required is placed correctly in the relevant sections of the Report, in the order, and under the provided headings as set out below, and ensure that the report is not cluttered with un-interpreted information and that it unambiguously represents the interpretation of the applicant.

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2. Objective of the basic assessment process

The objective of the basic assessment process is to, through a consultative process—

- (a) determine the policy and legislative context within which the proposed activity is located and how the activity complies with and responds to the policy and legislative context;
- (b) identify the alternatives considered, including the activity, location, and technology alternatives;
- (c) describe the need and desirability of the proposed alternatives,
- (d) through the undertaking of an impact and risk assessment process inclusive of cumulative impacts which focused on determining the geographical, physical, biological, social, economic, heritage, and cultural sensitivity of the sites and locations within sites and the risk of impact of the proposed activity and technology alternatives on these aspects to determine:
 - (i) the nature, significance, consequence, extent, duration, and probability of the impacts occurring to; and
 - (ii) the degree to which these impacts—
 - (aa) can be reversed;
 - (bb) may cause irreplaceable loss of resources; and
 - (cc) can be managed, avoided or mitigated;
- (e) through a ranking of the site sensitivities and possible impacts the activity and technology alternatives will impose on the sites and location identified through the life of the activity to—
 - (i) identify and motivate a preferred site, activity and technology alternative;
 - (ii) identify suitable measures to manage, avoid or mitigate identified impacts; and
 - (iii) Identify residual risks that need to be managed and monitored.

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PART A SCOPE OF ASSSSMENT AND BASIC ASSESSMENT REPORT

1. CONTACT PERSON AND CORRESPONDENCE ADDRESS

1.1. Details of

1.1.1. Details of the EAP

Table 1: Details of the EAP

Company	Crysbol (Pty) Ltd
Contact Person	Mr. Thendo Nelwamondo
SACNASP Membership No	400299/14
Tel No	+27 (011) 038 0131
Cell No	+27 (073) 227 0782
Fax No	+27 (086) 710 2600
E-mail address	crysbol.thendo@gmail.com
Address 45 Mozart Lane, Sagewood, Midrand,	
	Johannesburg, Republic of South Africa

a) Expertise of the EAP

The qualifications of the EAP

(With evidence).

Mr Thendo Nelwamondo has over 6 years of experience in the environmental management field. He started his career in the area of Environmental Impact Assessment (EIA) as an Environmental consultant at Kimopax Pty (Ltd). Mr Nelwamondo offer technical input for projects in the environmental management field, specialising in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental permitting, public participation, Environmental Management Plans and Programmes, environmental policy, strategy and guideline formulation, and integrated environmental management.

Mr Nelwamondo Thendo place attention on integration of the specialist environmental studies, strategic assessment, and providing practical and achievable environmental management solutions and mitigation measures. Responsibilities for environmental studies include project management; review and manipulation of data; identification and assessment of potential negative environmental impacts and benefits; review of specialist studies; and the identification of mitigation measures. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation

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Refer to for a copy of the EAP's Curriculum Vitae.

Table 2: Details of the Applicant

Company	Wafira Assets (Pty) Ltd
Name of the Project	Petersburg of Oribi Vlakte Prospecting Project
Responsible Person	Napo Juliet Dieketseng
Tel No.	067 111 1597
E-mail address	dee.napo@gmail.com
Postal Address	13A Candlewood Street, Weltevredenpark, Johannesburg, Gauteng 1709

1.2 LOCATION OF THE OVERALL ACTIVITY.

Table 3: Location Details

	Portion 1 and 2 of Petersburg of Oribi Vlakte 6534 GT Farm
Application area (Ha)	284На
Magisterial district:	Amajuba
Distance and direction from nearest town	Approximately 16 km southeast of Dannhauser Town and 12.3 west of Dundee Town
21-digit Surveyor General Code for each farm portion	N0GT0000000653400001 N0GT0000000653400002

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1.3 LOCALITY MAP

(Show nearest town, scale not smaller than 1:250000).

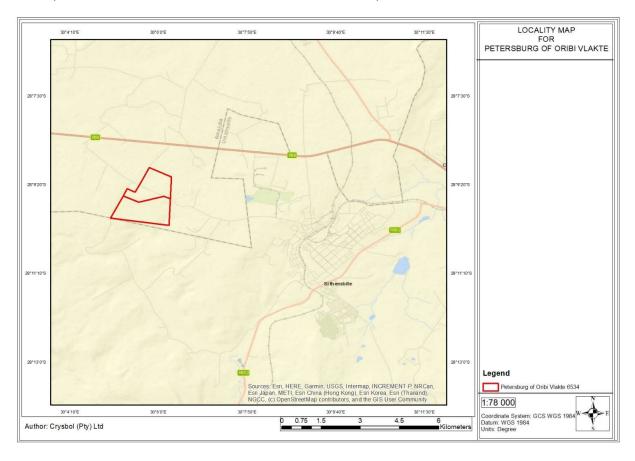


Figure 1: Locality map of proposed site

2. DESCRIPTION OF THE SCOPE OF THE PROPOSED OVERALL ACTIVITY.

Provide a plan drawn to a scale acceptable to the competent authority but not less than 1: 10 000 that shows the location, and area (hectares) of all the aforesaid main and listed activities, and infrastructure to be placed on site.

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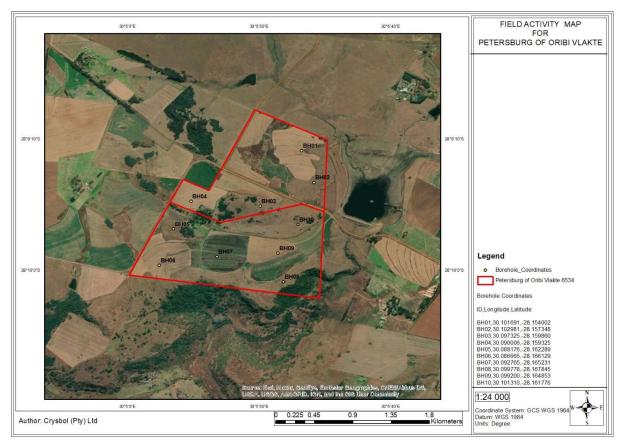


Figure 2: Location of the proposed drilling points for the Prospecting Project

Table 4: Borehole Coordinates

FID,	Longitude,	Latitude
BH01,	30.101691,	-28.154002
BH02,	30.102981,	-28.157348
BH03,	30.097325,	-28.159860
BH04,	30.090006,	-28.159325
BH05,	30.088176,	-28.162289
BH06,	30.086665,	-28.166129
BH07,	30.092765,	-28.165231
BH08,	30.099778,	-28.167845
BH09,	30.099200,	-28.164853
BH10,	30.101310,	-28.161776

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2.1 LISTED AND SPECIFIED ACTIVITIES

Table 5: Listed and specified activities.

NAME OF ACTIVITY	Aerial extent of the Activity Ha or m²	LISTED	APPLICABLE LISTING NOTICE
Prospecting Activities within the Prospecting Right Area, Using Desktop Study, Geological Mapping, Geophysical Survey, Diamond Core Drilling together with all associated infrastructure and activities. These include site establishment (access to site and campsite), pegging of drilling sites, drilling of exploration boreholes with associated sumps, logging and sampling of drilled cores and site rehabilitation.	284 ha (Prospecting Right Area)	Activity 20 of Listing Notice 1: 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).	GNR 927, LN 1

2.2 DESCRIPTION OF THE ACTIVITIES TO BE UNDERTAKEN

Wafira Assets (Pty) Ltd proposes to conduct prospecting activities on Portion 1 and 2 of Petersburg of Oribi Vlakte 6534 GT Farm, located within Amajuba Municipality. The commodity of interest in this regard is Coal and the prospecting will focus mainly on such a commodity.

2.2.1 Prospecting Method to be used

The prospecting activities to be undertaken include non- invasive and invasive methods, thus methods that do not cause harm to the environment and that which causes harm respectively. Non-invasive method encompasses phases such as phase 1 and yet invasive collate phases from 2 and 3. The conduction of these activities will be done in phases, with the succeeding phase depending on the results and success of preceding phase.

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The planned Invasive Phase will involve the drilling of the sited drilling boreholes using a diamond core drilling technique. A sump will be constructed in each drilling borehole for the collection of water from the drilling operations. The sump will be constructed to be one (1) square meter in size and have a maximum depth of one (1) metre. Any soils removed from the sump (approximately one cubic meters) will be placed adjacent the drilling site and used for rehabilitation of the site. Boreholes will be drilled at pre-planned sites. The boreholes will be drilled to intersect the expected mineralization zone and will be logged by the geologist. The intersected mineralized zone will be sampled and sent to the laboratory for quality determination. This data will form the basis for the geological modelling and financial evaluation. The current estimated life of the proposed prospecting activities is five (5) years.

Table 6: Equipment's to be used or needed

Equipment and/or	1 drill rig mounted on a 10-tonne truck or trailer	
Technology to be used	2X (4X4) Bakkies	
	Diesel	
	Grease	
Materials required	Hydraulic Oil	
	One 50 kg Bag of cement/ Expansion foam per borehole	
	Picks, shovels,	
Spillage control	Dip trays	
Sanitation Facility Chemical toilets		
Waste Management	Waste skip and Bins	
Safety	Safety Boards	

2.2.2 Non-Invasive: Desktop Studies (Data Acquisition)

2.2.2.1 Data gathering

Applicable data concerning the potential of the proposed prospecting area will be sourced from institutions such as the Council for Geosciences, Universities and other libraries and previous explorers may be approached with a view to obtaining their results. During this phase, the photo geological and satellite interpretations will also be undertaken and the data collecting during Basic Assessment Process will be utilised.

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2.2.2.2 Data Interpretation

The interpretation of data will result in compiling a preliminary potential project report. The report will

give indication as to what processes can be prioritised and followed in order to complete the proposed

prospecting activities.

2.2.2.3 Decision to commence with prospecting activities

Once all factors are gathered, physical inspecting of the terrain will be conducted to verify certain

aspects. The important point to note is that a decision on whether or not to proceed with prospecting

depends not only on the scientific and reliability of the methods under consideration, but also upon

many less tangible factors, such as restrictions that might be imposed by the relevant Department

when granting a prospecting right and an environmental authorisation.

2.2.3 Invasive: Construction Phase

2.2.3.1 Establishment of access to the Project site

There will be no need to establish an access road to site as an existing national road such as R68

and unnamed road, and gravel roads will be preferred, including the private farm roads that link to

the farm and tracks lie in close proximity to the proposed prospecting area. Where necessity arise

for access to the drilling sites, tracks will be established as access to the drilling site. These tracks

will be established to be more than 100 meters away from any sensitive landscapes. The tracks will

also be sited away from protected areas. Vegetation clearance will be avoided during the

establishment of the access tracks.

2.2.3.2 Detailed Site Survey and Investigation

Demarcation of sensitive and protected areas will be conducted by physical survey of the proposed

area by a suitability qualified person. This should be done before establishment of access to the

site, campsites and drilling of exploration boreholes.

2.2.3.3 Pegging of Drill Sites

All exploration borehole sites will be staked by a suitably qualified person. The sites will be plotted

according to the determined borehole layout as shown in figure 2 above.

2.2.4 Operational Phase

2.2.4.1 Diamond Drilling for boreholes and sump construction

Geological boreholes will be drilled on a determined grid of 350m-1000m apart. The depth of the borehole is planned to a maximum of 100m and a diamond core of 60 mm will be used. During drilling of each borehole, a sump of approximately 1.0 x 1.0 x 1.0 m will be excavated for collecting of excess muds (water) from the drilling operation.

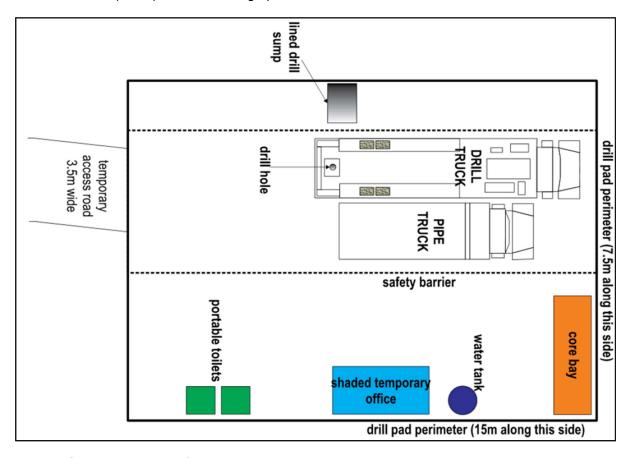


Figure 3: Schematic diagram of drilling layout

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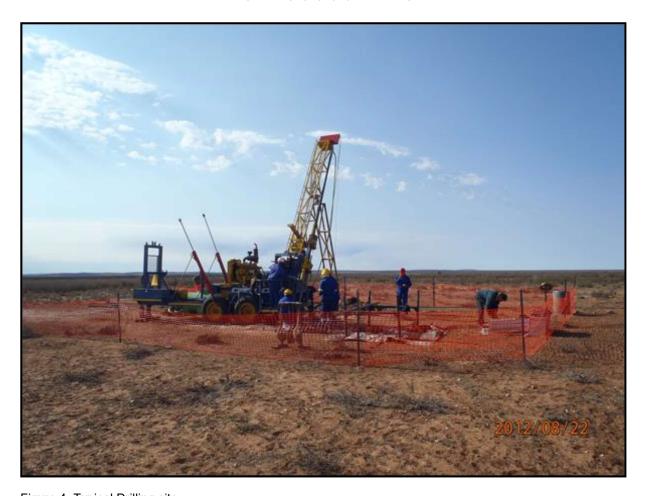


Figure 4: Typical Drilling site

2.2.4.2 Access Roads

Existing access roads and tracks will be used. Where there are no access roads tracks will be created to access the drilling site.

2.2.4.3 Campsite

The drilling team will be housed on a static camp site close that will be erected within the project area. This campsite will be temporary as it will only be on site during drilling phase of the project. The campsite will be on the area of 60m².

2.2.4.4 Ablution

Mobile ablution systems will be used. This will be located away from the drilling site to avoid any leakage that might be caused due to drilling towards the drilled boreholes. The ablution system will only occupy the total area of $20m^2$. The water to be used will be transported to the site by water tanker and only 2200l of water will be stored on site on a tank.

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2.2.4.5 Hydrocarbon storage

The hydrocarbons will be stored on site and only a maximum of 50l of diesel and oil will be stored during prospecting activities. This will be stored on a certified drum to avoid any spillage on the ground. The drums will be monitored twice a day throughout the prospecting activities.

2.2.4.6 Topsoil Storage Site

The tops and sub soils removed from the sump and drilling boreholes will be stockpiled in close proximity to the sump. The sumps will be backfilled manually by spade, immediately the drilling and sampling of boreholes is completed.

2.2.4.7 Vehicle and machinery storage

Only one rig will be utilised during prospecting activities of which will be mounted on a 10 tonne truck. This rig will be left on site throughout the prospecting activities and the space that it will utilise during storage will be 9300mm x 2500mm.

2.2.4.8 Logging and Sampling of core

This involves the physical description of the rocks intersected by the drilling process. The interpretation of these rock descriptions will assist in establishing the general stratigraphy of the area. Sampling will be taken at the desired horizons and sent to the laboratory for analyses.

2.2.4.9 Site Rehabilitation

Concurrent rehabilitation (Plugging and reseeding) of disturbed areas will be undertaken as drilling continues. Vegetation similar to that surrounding area will be used, or if necessary the opinion of an Ecologist will be sought for rehabilitation.

2.2.5 Decommissioning phase

2.2.5.1 Final Rehabilitation

Except for farm roads, no tracks and infrastructure related to the prospecting operation will remain in place after the decommissioning phase. Where tracks have resulted in more damage, such tracks will be ripped at 90° to the inherent slope, and seeded with the recommended seed mix. The sumps will be rehabilitated in such a manner to return the area to its pre-drilling environment.

Post closure, the prospecting area will consist of re-vegetated areas with vegetation cover comparable to the surrounding areas. This will be unaffected by the prospecting activities. No prospecting related infrastructure will remain on the prospecting site. The area will conform to the pre-prospecting topography. The areas affected by prospecting will be stable and erosion free.

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2.2.5.2 Pre-feasibility Study

This involves the compilation of a final geological competent person's report, reserve determination and pre-feasibility studies.

2.2.5.3 Mining feasibility study

This involves the conducting of a mining feasibility study, market research, sales agreements etc.

2.2.6 After Closure Phase

The rehabilitated area will be monitored until closure of the site which is for approximately one (1) year. After the decommissioning of the site and if it can be determined that the site is stable, an environmental authorisation for the decommissioning of the site and a closure will be applied for in terms of the relevant laws. The borehole layout has been determined and is shown in Figure 2, and this will not be changed based on the fact that it has been determined taking into consideration of the environmental aspect within the project area.

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2.3 POLICY AND LEGISLATIVE CONTEXT

Table 7: Policy and Legislative Context

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED	HOW DOES THIS DEVELOPMENT COMPLIY WITH AND RESPOND TO THE LEGISLATION AND POLICY CONTEXT?
National Environmental Management Act, 1998	This entire report is prepared as part of the Application for Environmental Authorisation under the NEMA.	In terms of the National Environmental Management Act an Application for Environmental Authorisation subject to a Basic Assessment Process has been applied for.
National Water Act, 1998	Due to the nature of the proposed prospecting activities, it is not anticipated that Section 21 water uses will be triggered. Therefore, there is no requirement to apply for Water Use Authorisation in terms of the NWA.	In terms of the National Water Act, no Water Use License has been applied For.

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Mineral and Petroleum Resources Development Act, 2002	This entire report is prepared as part of the Prospecting Right Application under the MPRDA.	In terms of the Mineral and Petroleum Resources Development Act a Prospecting Right Application has been applied for.
Strategic Development Framework (SDF)	Alternatives	In terms with the SDF of the Local municipality, various strategies and associated policies should be adopted to ensure effective spatial development. In terms of Sect ion 5.1 of the SDF the municipality must provide alternative means of support for rural /informal population to decrease dependence on the environment and subsistence agriculture. For this purpose, the following policies are adopted:
		Maximize economic benefit from mining industrial, business, agricultural and tourism development within the area Promote a climate for economic development. Improve public and investor

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		confidence in the region through crime reduction and Infrastructure development.
National Environmental Management Air Quality Act (Act No. 39 of 2004, Government Gazette No. 27318) (NEMAQA	Prospecting Activities	Standards for particulates and dust used in Impact Assessment to regulate the concentration of a substance that can be tolerated without any environmental deterioration
Conservation of Agricultural Resources Act, 1983	Prospecting activities	The project should promote the conservation of soil, water and vegetation

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2.4 NEED AND DESIRABILITY OF THE PROPOSED ACTIVITIES.

In terms of the EIA Regulations the need and desirability of any development must be considered by the relevant competent authority when reviewing an application. The need and desirability must be included in the reports to be submitted during the environmental authorisation application processes. This section of the BAR and EMPr will indicate the need and desirability for the proposed prospecting project.

Assessment of the geological data available has determined that the area in question may have Coal Ore mineral reserves within the proposed area, it will be necessary that prospecting activities be undertaken. The prospecting activities will also determine if there are any features that may have an impact on the economic extraction of this mineral.

The data obtained from the prospecting of Coal Ore (if is discovered) will be necessary to determine how and where these minerals will be extracted and how much economically viable reserves are available within the proposed prospecting area. Should Coal Ore minerals be found in the project area, Wafira Assets (Pty) Ltd will be able to use the available reserves to apply for a mining right should they prefer to continue with the project.

Wafira Assets (Pty) Ltd expects that substantial benefits from the project will accrue to the immediate project area, the sub-region and the province of Kwazulu natal. These benefits must be offset against the costs of the project, including the impacts to land owners.

Further to the above, it has been determined that the prospecting project activities will not have a conflict with the spatial development plans, the integrated Development Plans, the Environmental Management framework, existing industrial and commercial development of the Local Municipality.

The applicant further commits to ensure their contribution to environmental education and to their employees during the project life. The employees will be made aware of work that may be harmful to their health and the environment and of any work posing danger. This is undertaken in terms of the Mine Health and Safety Act, 1999 (Act 25 of 1999) and their regulations, which gives the employees the right to refuse work that is dangerous. The applicant will respect decisions of employees regarding the above and is committed to the protection of employees against any dangerous working environment.

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3. MOTIVATION FOR THE OVERALL PREFERRED SITE, ACTIVITIES AND TECHNOLOGY ALTERNATIVE.

Preferred Site

The proposed prospecting area is targeted because Coal Ore is known to be in the area. There are also various sedimentary rocks within the area under application. The site therefore regarded as preferred site and alternative site is not considered.

The proposed method of exploration which will be mainly drilling of planned boreholes allows easy access of drill rigs to the site using existing roads and does not require extensive machinery or any development for new structures as compared to other methods, making it feasible for one drill rig to be utilised for this type of project. This also reduces the overall costs, environmental and social impact associated with the exploration processes, thus allowing financial viability in prospecting activities.

The project will result in several benefits both at the local and national levels. The local economy will also be boosted by the creation of job opportunities. Further to this, the national economy is also expected to benefit through the export of the final product resulting in foreign revenue.

3.1 CONSIDERATION OF ALTERNATIVES

Technologies Alternatives

In terms of the technologies proposed, these have been chosen based on the long-term success of the company in terms of their prospecting history. The prospecting activities proposed in the Prospecting Works Programme is dependent on the preceding phase as previously discussed, therefore no alternatives are indicated, but rather a phased approach of trusted prospecting techniques.

Core drilling is the only major methods used in exploring for deposits of this type and for resource definition and evaluation. The technology to be used cannot be replaced by any other methods thus these are the preferred activities.

Due to the nature of the proposed prospecting activities future land use alternatives will not be compromised. Once available reserve has been confirmed a comprehensive social and Environmental Impact Assessment will be required (in accordance with legislation), during which time alternative land use to mining would be investigated. All infrastructures will be temporary and/or mobile.

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No Go Option

The 'no-go' alternative is the option of not undertaking prospecting activities on the project site. The no-go option assumes the site remains in its current state. The no-go alternative would result in no impacts on the social and biophysical environment.

Wafira Assets (Pty) Ltd intends on exploring the proposed area in order to determine availability of coal minerals. Should these minerals found at the prospecting area, the proposed Prospecting Right area will therefore achieve this Company long term objective of owning and operating its own mine to benefit the local community where the operation take place. In addition to the above, the proposed prospecting project will on its own result in the creation of employment opportunities and will also result in the support of local businesses.

Accordingly, the consequences of not proceeding with the proposed project will have a detrimental impact on the potential positive impact this project may have on the current and future labour force and the labour to be used for the prospecting project. The no go alternative is therefore not considered desirable at a local, regional and national scale.

3.2 DETAILS OF THE PUBLIC PARTICIPATION PROCESS FOLLOWED AND RESULTS THEREOF

Public participation is the cornerstone of any EIA process. The principles of the NEMA govern many aspects of EIA's, including public participation. The general objectives of integrated environmental management laid down in the NEMA include to "ensuring adequate and appropriate opportunity for public participation in decisions that may affect the environment". The National Environmental Management Principles include the principle that "The participation of all interested and affected parties in environmental governance must be promoted, and all people must have the opportunity to develop the understanding, skills and capacity necessary to achieve equitable and effective participation, and participation by vulnerable and disadvantaged persons must be ensured", which basically means that the person responsible for the application (EAP) must ensure that provision of sufficient and transparent information on an ongoing basis to stakeholders are made to allow them to comment, and to ensure that the participation of previously disadvantaged people like women and the youth are undertaken.

In terms of the EIA Regulations, 2014, when applying for environmental authorisation, the Environmental Assessment Practitioner managing the application must conduct at least a public participation process where all potential or registered interested and affected parties, including the competent authority, are given a period of at least 30 days to submit comments on each of the basic assessment reports, EMPr, scoping report and environmental impact assessment report, and where applicable the closure plan. In this case a Basic Assessment Report (BAR) is considered.

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This section of the BAR and EMPr will give an explanation of the public participation process to be taken in order to comply with the above-mentioned requirements. A number of public participation guidelines were published in a bid to assist persons responsible for the environmental authorisation applications. As much of the available guidelines were used in determining the public participation process, in guiding the public participation process of the proposed project.

Wafira Assets (Pty) Ltd is applying for an environmental authorisation for the proposed Prospecting project. The application for the environmental authorisation is undertaken in terms of the process as laid out in part 2 of Chapter 4 under the NEMA EIA Regulations, 2014. The above mentioned regulations require that an applicant for an environmental authorisation submit a BAR and EMPr to the competent authority after having subjected the reports to a public participation process. In view of the above, a public participation process was initiated for the proposed prospecting project. The public participation process for the proposed project is designed to provide sufficient and accessible information to interested and affected parties (I&APs) in an objective manner to assist them to:

- raise issues of concern and make suggestions for enhanced benefits;
- contribute local knowledge and experience;
- verify that their issues have been captured;
- > verify that their issues have been considered in the technical investigations; and
- Comment on the findings of the EIA.

The following have been conducted in undertaking of the public participation process for the proposed project.

<u>Identification of Stakeholders</u>

To ensure a proper representation of stakeholders interested in or affected by the proposed, the following identification methods were used to develop a stakeholder database:

- Conducting desktop searches in and around the project to verify landownership and obtain contact details;
- Responses received from newspaper advertisements and site notices;
- Responses from distribution of the Background Information Document (BID); and
- And one-on-one consultations with stakeholders to identify additional I&APs.

Stakeholders for the proposed project are grouped into the following categories:

- Government: National, Provincial, District and Local authorities;
- Landowners: Directly affected and adjacent landowners;

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- Land occupiers: Directly affected and adjacent land occupiers;
- Communities: Surrounding communities;
- Non-Governmental Organisations (NGOs): Environmental and social organisations;
- · Agriculture: associations or organisations focussed on agricultural activities; and
- Business: small medium enterprises and formal organisations.

Please refer to stakeholder database has been compiled (refer to Appendix A).

Public Participation Materials

Considering the legislative requirements and good practice, the following methods have been implemented to disseminate information to stakeholders about the proposed project. The various PP materials used during announcement of the proposed project have been included as Appendices A.

Background Information Document (BID): includes the location and a description of the proposed project, the legislative processes and requirements that will be followed, the specialist studies to be conducted, the competent authorities, and the consultation and registration process including contact details of the responsible person representing the EAP.

Newspaper Advertisement: An English newspaper advert was placed in one local newspaper. The advert included a brief project description, information about the required legislation, the competent authorities and details of the appointed EAP.

Site Notices: English site notices were put up at various places. The site notices contained a brief project description, information about the required legislation, the competent authorities and details of the EAP.

Notice Letter: a letter was sent in English which contained information about the proposed project, applicable legislation and competent authorities inviting everyone to register as interested and affected parties with regard to the project.

Comment Sheet: A Registration and Comment Sheet was also provided for stakeholders to use for formal registration as I&APs or to submit comments.

Consultation with Stakeholders

Telephonic consultations: various telephonic consultations were conducted to directly affected landowners, adjacent landowners, and departments.

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Written comments: All comments received via email, mail or telephonically have been included into the Comment and Response Report (CRR) (see Appendix D). Stakeholder comments will be closely considered and addressed, where applicable, by the project team.

Registration and BAR phase

The potential Interested and affected parties (I&AP's) were given 30 days to register as interested and affected parties and to comment on the draft BAR and EMPr. In the registration and commenting process all parties will be provided with enough time (at least 30 days) to comment on the proposed project.

3.2.1 Registered Interested and affected parties

The following **Table 6** shows the registered interested and affected parties for the Prospecting project:

Table 8: List of Registered Interested and Affected Parties

Full Names	Farm/Organization	Email Address	Contact Details

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Full Names	Farm/Organization	Email Address	Contact Details

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3.2.2 Summary of issues raised by I&APs

(Complete the table summarising comments and issues raised, and reaction to those responses)

Table 9: Summary of issues raised by I&AP's

Interested and Affected Part	ies	Date Comments Received	Issues raised	EAPs response to issues as mandated by the applicant	Section and paragraph reference in this report where the issues and or response were incorporated.
AFFECTED PARTIES					
Landowner/s	Х				
(Land Owner					
Representative)					
Lawful occupier/s of the					
land					
Landowners or lawful	Х				
occupiers					
on adjacent properties					
Communities					

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Interested and Affected Parties	S Date Comments Received	Issues raised	EAPs response to issues as mandated by the applicant	Section and paragraph reference in this report where the issues and or response were incorporated.
Dept. Land Affairs				
Traditional Leaders				

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3.3 THE ENVIRONMENTAL ATTRIBUTES ASSOCIATED WITH THE ALTERNATIVES.

(The environmental attributed described must include socio-economic, social, heritage, cultural, geographical, physical and biological aspects)

3.3.1 BIOPHYSICAL ENVIRONMENT

3.3.1.1 Climate

In general, the proposed project area is characterised by a temperate climate with warm to hot summers and mild to cold winters. The days are usually bright and sunny and the nights clear and cool. Winter sunshine averages almost 7 hours a day, some of the highest in the country.

Dannhauser normally receives about 671mm of rain per year, with most rainfall occurring mainly during mid-summer. It receives the lowest rainfall (1mm) in June and the highest (133mm) in January. The monthly distribution of average daily maximum temperatures demonstrates that the average midday temperatures for Dannhauser range from 18.5°C in June to 26.2°C in January. The region is the coldest during July when the mercury drops to 2.1°C on average during the night.

3.3.1.2 Vegetation

Northern KwaZulu-Natal Moist Grassland (Gs4)

The site is situated in the Northern Kwazulu-Natal Moist grassland (Gs4) which fall in the sub-Escarpment Grassland. The vegetation are mesic grasslands occurring at mid-altitudes (760 – 1 800 masl) at the base of the escarpment of KwaZulu-Natal and the Eastern Cape. They are made up of long-lived grasses and forbs that are adapted to frequent above-ground disturbance mostly due to fire, after which they re-sprout using carbohydrates stored in underground storage organs. The Northern Kwazulu-Natal Moist Grassland Reproduce only infrequently through seedlings and seeds are generally viable only for short periods; plants persist for many years and replacement takes place vegetatively as new tillers emerge.

They adapted to a climate that is characterised by warm, wet summers with high rainfall (mean annual precipitation >600 mm), and dry, temperate winters that are cool to cold with a moderate to heavy frost regime; the rising topography results in orographic precipitation and frequent formation of mist. Soils are depleted of nutrients as a result of leaching and generally support sourveld; they form a mosaic made up of shallow and poorly-drained soils from sedimentary rocks (shales, sandstones and mudstones) ,interspersed with deep, well-drained soils from igneous rocks (such as basalt and dolerite).

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These grasslands are important as rangelands and are favoured for afforestation and other cropping activities. They are also important water-production landscapes, and are the catchment for important rivers such as the Mngeni, Mzimvubu and the Umtamvuna.

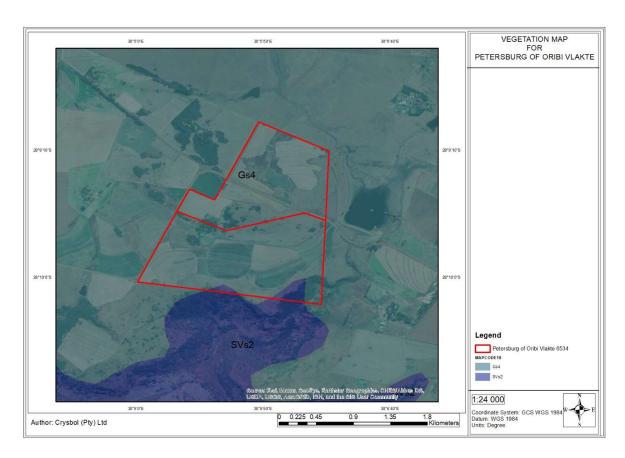


Figure 5: Vegetation map

3.3.1.3 Mining and Biodiversity Guidelines

The Mining and Biodiversity Guidelines (2013) was developed by the Department of Mineral Resources, the Chamber of Mines, the South African National Biodiversity Institute and the South African Mining and Biodiversity Forum, with the intention to find a balance between economic growth and environmental sustainability. The Guideline is envisioned as a tool to "foster a strong relationship between biodiversity and mining which will eventually translate into best practice within the mining sector. In identifying biodiversity priority areas, which have different levels of risk against mining, the Guideline categorizes biodiversity priority areas into four categories of biodiversity priority areas in relation to their importance from a biodiversity and ecosystem service point of view as well as the implications for mining in these areas:

Legally protected areas, where mining is prohibited.

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- Areas of highest biodiversity importance, which are at the highest risk for mining.
- Areas of high biodiversity importance, which are at a high risk for mining.
- Areas of moderate biodiversity importance, which are at a moderate risk for mining.

According to the Mining and Biodiversity Guidelines (2013), the project area is not classed as being of significant biodiversity importance and does not represent a risk to mining.

3.3.1.4 Geology

The proposed prospecting right area comprised of siliclastic sedimentary rocks; this was observed during the desktop study. The identified rocks fall under the Karoo super group which regionally belongs to the Klip river coal fields. The Klip river Coalfield is one of the mined coalfields of the northern KwaZulu/Natal Coalfields. It is roughly triangular in shape and the area is bounded on the east by the Utrecht Coalfield.

The Coalfield contains sediments of the Dwayka group overlain by sediments of the Ecca and Beaufort groups of the Karoo Sequence. The area characterized by Pietermaritzburg formation with a maximum thickness of 90m conformably overlies the Dwyka shales. In the absence of Dwyka, the Pietermaritzburg Formation lies unconformably on the basement rocks.

Based on the Historical exlploration data the coal seams within the mining permit area varies from fine-grained laminated and micaceous to coarse and gritty sandstones with alternating zones of shale and shaly sandstone. The total thickness of the Middle Ecca is up to 170 meters and the main coal zone within it, up to 85 meters.

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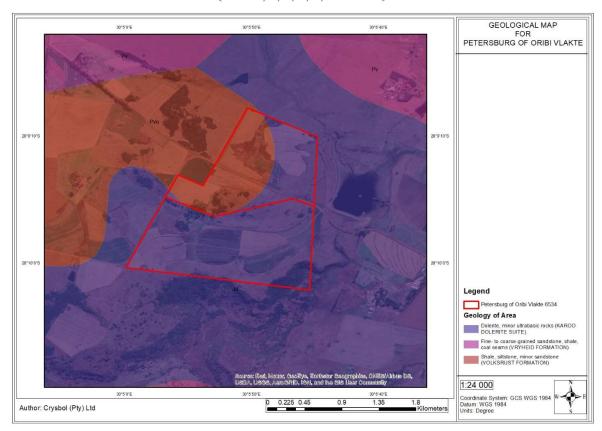


Figure 6: Geology map for proposed area.

3.3.1.5 Soil

The soil covering the farm and the surrounding areas are S22, which are non-soil classes. The soil is considered freely drained and structureless since there is no structure of soil particles recognised in them

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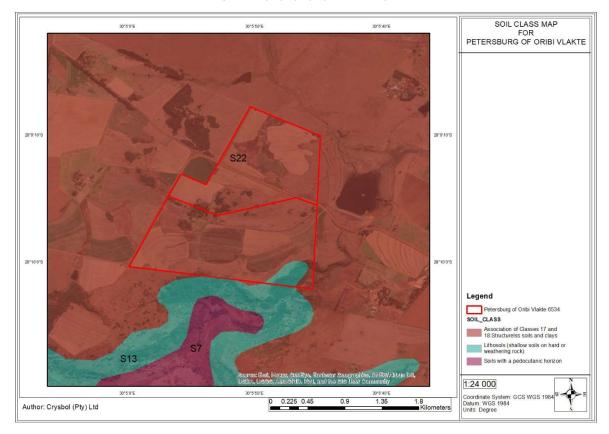


Figure 7: Soil Class Map for proposed site

3.3.1.6 Geohydrology

a) Surface water

The proposed project situated within the Thukhela catchment, which form part of the quaternary catchment of V60E (See Figure 6 below) of Thukela Water Management Area (WMA). The closest river streams to the prospecting right area is Manzimnyama river which flow about past the farm Petersburg of Oribi Vlakte.

The Tugela (also known as Thukela) is the largest river system in KwaZulu-Natal, and the river and its tributaries meander through the central part of this province and drain from the Drakensberg escarpment towards the Indian Ocean. The total area of the Thukela River catchment is approximately 30 000 km2 in extent (DWAF, 2004). Due to the mountainous nature of the Thukela WMA and its proximity to the Indian Ocean, the rainfall is high by South African standards, ranging from over 1 500 mm per annum in the mountains to about 650 mm per annum in the central parts of the catchment. As a result of the high rainfall, there is substantial runoff from the Thukela catchment, with the Mean Annual Runoff estimated at 3 799 million m3/a.

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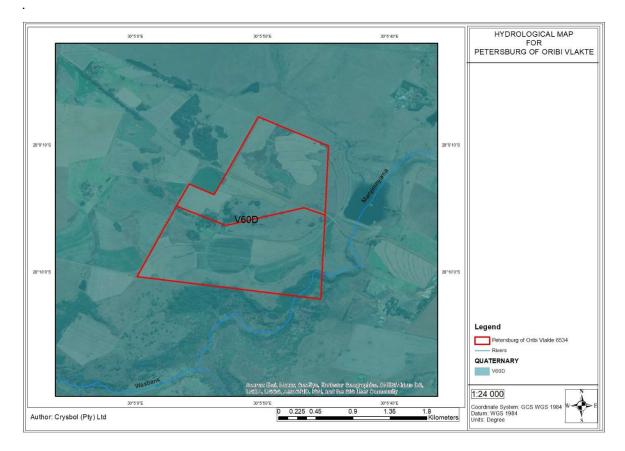


Figure 8: Surface hydrology map of proposed site

3.3.1.7 Topography

The general topography of the area varies significantly. The area consists of topography of the proposed prospecting project is flat slope and gentle slope and drains toward the southeast direction of the proposed site. The mid-eastern to southern portions consist of areas of moderate slopes consisting of small hills and undulating terrains. The terrain is very steep, on the Eastern ends of the site area and is characterized by mountains with high altitudes and steep slopes. It should be noted that there are restrictions on development of areas that slope sharply. For instance, residential development on areas that are steeper than 1:3 is discouraged. Thus, areas on the western ends should be excluded from development considerations (NDG AFRICA: 2010).

The farm's minimum elevation is at approximately 1285m and the maximum elevation of approximately 1373m.

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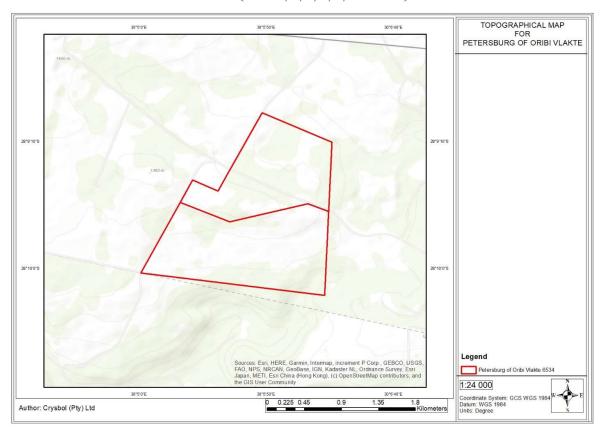


Figure 9: The topographical map

3.3.1.8 Socio Economic

Each community is unique as it is shaped by social networks, cultural influences, norms and values, politics, and the infrastructure in the area. The Amajuba district comprises of a total population which is estimated at 531 327 people who are accommodated on 117 256 households. Newcastle has the highest population which is estimated at 389 117 people (90 347 households) within 34 wards followed by Dannhauser 105 341 people (20 242 households) within 13 wards and Emadlangeni with 37 869 people (6 668 households) within 6 wards.

The main economic sectors include Mining, agriculture, social services, trade, private household/domestic workers, manufacturing, and business services.

3.3.1.9 Description of the current land uses.

This Section details the varying land uses located within and surrounding the Study Area. Based on the available information it is assumed that the land portion included in the prospecting right

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application is currently zoned for agriculture. This will be confirmed during a site investigation and stakeholder investigation process.

3.3.1.10 Description of specific Environmental features and infrastructure on the site

a. <u>Demographics and Geographic Setting</u>

South Africa is a constitutional democracy with an independent judiciary.

Although South Africa and its neighbours have a large and experienced workforce of skilled and semi-skilled mining labour, this labour pool is ageing rapidly. In addition, the high incidence of HIV/AIDS is likely to have a marked impact on the future availability of skilled labour. Nonetheless, a high number of job-seekers, coupled with a good training infrastructure, should ensure an adequate supply of skilled mineworkers.

South Africa has sophisticated financial infrastructure, with a world-respected banking system. The country possesses an efficient transport infrastructure, which has for many years also been utilised by other countries in Africa, as far north as the Democratic Republic of the Congo and Tanzania. The rail and port system are run by a parastatal company, Transnet Limited. The rail network extends over 22,000km and seven major harbours are utilised. The national and provincial road networks consist of some 73,500km of surfaced and 288,000km of unsurfaced roads.

There are major international airports at Johannesburg, Cape Town and Durban, and a total of 727 registered airfields in South Africa. Electricity is generated mainly by parastatal company, Eskom, the country's electricity utility, and is amongst the cheapest in the world. Imaginative agreements between this utility and mineral processor in the past have seen the establishment of world-rated mineral-beneficiation projects, such as the Alusaf Hillside aluminium smelter, as well as the current development of a new deepwater port at Coega in the Eastern Cape.

South Africa possesses a modern telecommunications network, with international links including submarine cables and satellite stations. There are three cellular telephone providers.

The population of South Africa amounts to approximately 46.6 million (mid-2004 estimate), with a population growth rate of -0.31% (2005 estimate). English is widely spoken as a first and second language, with a literacy rate of 86.4%. There are 11 official languages

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b. Local Resources and Infrastructure

The prospecting area is located in the Dannhauser Local municipality under the Amajuba district municipality in the Kwazulu-Natal province.

Heritage:

Several important environmental features characterises Amajuba Municipality which are: natural vegetation areas, high species diversity areas, watercourse – wetlands, streams and rivers, habitats, breeding areas of threatened species, natural heritage sites, conservation significance sites, archaeological sites, geomorphologic importance sites and historical sites. There are numerous game farms, sites of conservation significance, Heritage Sites and other areas of exquisite beauty and great interest.

The project activities will not be sited in a close proximity to these heritage sites.

Energy:

Eskom is the sole supplier of electricity Amajuba District Municipality. There have been issues with Eskom with electricity cuts (load shedding). Eskom faces the challenge of a constrained power system that will affect South Africa until substantial new power capacity is available. The power cuts have affected the social livelihood and more of economy hence most businesses close down in that 2 hours of shut down. 90% (326 648 out of 362 523) of Amajuba household have electricity and most are prepaid users.

The Amajuba District Municipality is in the process of completing its Electricity Supply Development Plan (ESDP). The purpose of the ESDP is to formulate a rational basis for extending grid and non-grid electricity service supply to the population of the Amajuba District Municipality within as short a time as possible, within the national as well as provincial electrification guidelines and budget available

Human Settlements:

Achieving sustainable human settlements is one of the main spatial goals within an area such as Amajuba District which is characterised by settlement pattern that has encounter a high level of disintegration and fragmentation. An opportunity still exists to turn the situation around through facilitating and promoting the evolution of these discrete pockets of settlements into sustainable, integrated human settlements clusters. This is bearing in mind the fact that settlements are not static, they respond to change and are continuously in the process of transformation. A sustainable settlement improves the level of choice, encourages creativity and investment while a less sustainable settlement imposes a lifestyle on people and results in unnecessary expenses. It is neither possible nor desirable for settlements to be homogenous hence an emphasis on choice.

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Employment:

Amajuba witnessed an improvement in the number of people employed over the period 1998 to 2018, from 80 630 in the 1998 to 113 762 in 2018. The number of people employed within Amajuba as a percentage of KZN's total employment stood at 4.3%, this is down by 0.1% from 1998, but on par with that of 2008. The figure shows that significant improvement in terms of employment has been made within KZN over the past two decades. The provincial work force consists predominantly of formally employed people rather than those that are informally employed.

Health:

The Dannhauser Community Health Centre (CHC) began its full operations during the first quarter of 2015/16 financial year thus increasing access to all its citizens. This facility also added on the ten (10) fixed Primary Health Care facilities that already exist in Dannhauser sub-district. There are no PHC mobile teams attached to the institution currently, but the two (2) teams that are serving Dannhauser Mobile points are still attached to Madadeni Hospital hence their headcount is still reported under Newcastle sub-district.

Emadlangeni sub-district population have access to two (2) fixed PHC facilities and 3 PHC mobile teams. Newcastle sub-district population to PHC facility is very high compared to the other 2 sistersub- districts, this is mainly due to few (13) clinics for a population of more than 360 000 which is three (3) times more than the population of Dannhauser which has 10 fixed clinics. Consideration and prioritization for new PHC facilities should be directed to Newcastle.

3.3.1.11 Environmental and current land use map.

(Show all environmental, and current land use features)

The area is a rural settlement with few houses that are dispersed and far apart from each other around and in close proximity of the proposed site. Most of these houses are well structured and in good condition, while some houses are small in size hence they have shacks to increase accommodation space. The areas is also used for farming and contain thick bushes.

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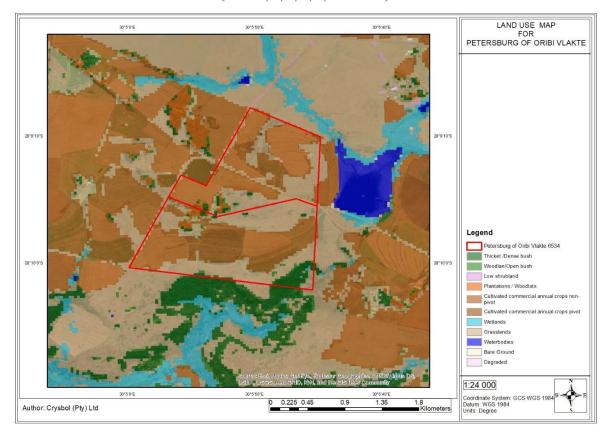


Figure 10: Land use map

3.3.1.12 Heritage

No sites of archaeological or cultural interested were identified on site during a desktop study and a site reconnaissance visit will confirm the findings. Property owners will be provided with a registration and comment sheet in order to raise or highlighted cultural or archaeological features that may be occurring on site.

The project area is comprised of open-spaces. As a matter precaution, should any further information confirm existence of such sites, steps will be taken to put measures in place for preservation thereof in line with the National Heritage Resources Act, 1999 (Act No. 25 of 1999). The South African Heritage Resources Agency (SAHRA) will also be notified of such findings.

3.3.1.13 Environmental Sensitive Status

Critical Biodiversity Areas

The Protected Areas, Important Sites and Irreplaceable Areas based on the presence of Red Data Species, Endemic Species and potential habitat for these species. Irreplaceable areas are essential in meeting targets set for the conservation of biodiversity in Kwazulu natal Province.

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These areas, along with Ecological Support Areas (ESAs) are highly sensitive, and will be protected from transforming land uses.

Protected Tree Species

In terms of the National Forests Act 1998 (Act No 84 of 1998) certain tree species can be identified and declared as protected. The Department of Agriculture (now Department of Agriculture, Forestry and Fisheries) developed a list of protected tree species. In terms of Section 15 (1) of the National Forests Act, 1998, no person may cut, disturb, damage or destroy any protected tree or possess, collect, remove, transport, export, purchase, sell, donate or in any other manner acquire or dispose of any protected tree or any forest product derived from a protected tree, except under a license or exemption granted by the Minister to an applicant and subject to such period and conditions as may be stipulated. Trees are protected for a variety of reasons, and some species require strict protection while others require control over harvesting and utilization. Assessment of protected tree species or indigenous tree species will be undertaken on the proposed site during site.

4. ENVIRONMENTAL IMPACT ASSESSMENT

4.1 ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOLLOWED

4.1.1 Approach to Environmental Impact Assessment

"The term 'environment' is used in the broadest sense in an EIA. It covers the physical, biological, social, economic, cultural, historical, institutional and political environments."

An Environmental Impact Assessment is a good planning tool. It identifies the environmental consequences of a proposed project from the beginning and helps to ensure that the project, over its life cycle, will be environmentally acceptable and integrated into the surrounding environment in a sustainable way.

4.1.2 Environmental Impact Assessment Process Followed

Under Section 24 of the National Environmental Management Act (NEMA), the Minister promulgated the regulations pertaining to environmental impact assessments (EIA Regulations, 2014) under Government Notice R982 in Government Gazette 38282 of 4 December 2014. These EIA regulations repealed the 2010 EIA regulations and therefore any process relating to environmental authorisations must be undertaken under the EIA Regulations, 2014.

Chapter 4 of the EIA Regulations, 2014 deals with the provisions for application for environmental authorisation. In view of the above, Wafira Assets (Pty) Ltd is obliged to comply

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with provisions of Chapter 4 for the intended environmental authorisation application for the activities (listed activities) within the proposed project.

Part 2 of chapter 4 of the EIA Regulations, 2014 contemplate process to be undertaken for the application for environmental authorisation for the proposed project, which is the BAR process. The process to be followed is described below.

4.1.2.1 Pre-application consultation with the Competent Authority

In terms of section 24D (1) of the National Environmental Management Act, 1998 (Act 107 of 1998), the Minister responsible for mineral resources is the competent authority for environmental matters relating to mining and associated activities. In view of the above, the application for the environmental authorisation for the proposed project was submitted to the Department of Mineral Resources (DMR), Kwazulu natal province Regional Office for their consideration and decision-making.

4.1.3 Public Participation Process

Public participation is the cornerstone of the EIA process. The principles of the NEMA govern many aspects of EIA's, including public participation. These include provision of sufficient and transparent information on an on-going basis to stakeholders to allow them to comment. Comments received from the public participation process will be included in the impact assessment and measures will be determined on how the comments will be addressed during the life of the proposed project.

The following steps were taken during the public participation process:

- Providing an opportunity for potential interested and affected parties to register.
- Making reports compiled within the environmental impact assessment available to register and potential interested and affected parties for their comments.
- Further to the above, interested and affected parties and the public will be informed of the decision taken by the responsible authorities on the submitted application.

The above process will ensure that the BAR and EMPr is subjected to a public participation process, which ensures that the proposed project is brought to the attention of interested and affected parties, the public and relevant organs of state including the competent authority.

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4.1.3.1 BAR Phase

In compliance with Regulation 19 of the EIA Regulations, 2014, the BAR and EMPr will be

submitted to the competent authority within 90 days after the acknowledgement of the

environmental authorisation application.

As part of the public participation, the DBAR and EMPr is made available to the competent

authority, potential and registered interested and affected parties for their comment for a period

of 30 days during the EIA phase.

4.1.3.2 Information Gathering

Environmental baseline data has been obtained, pertaining to surface water, geohydrological

data, topographical analyses, soil surveys, vegetation surveys, wetland surveys and geological

conditions. Weather data was acquired from the South African Weather Service. Historic land

use was determined through available data and by visual observations made during various field

studies. The data accumulated and analysed is sufficient to gain a baseline indication of the

present state of the environment. The use of this baseline study for impact assessments is thus

justified and reliable conclusions could be made.

4.1.3.3 Decision on the BAR application

In compliance with Regulation 19 of the EIA Regulations, 2014, the competent authority will

within 107 days of receipt of the BAR and EMPr grant or refuse the environmental authorisation.

4.2 ENVIRONMENTAL IMPACT ASSESSMENT METHODOLOGY

The following prediction and evaluation of impacts is based on the proposed Prospecting project

and associated activities. The evaluation distinguishes between significantly adverse and

beneficial impacts and allocates significance against national regulations, standards and quality

objectives governing:

Health & Safety;

Protection of Environmentally Sensitive Areas;

Land use; and

Pollution levels.

Irreversible impacts are also identified.

The significance of the impacts is determined through the consideration of the following criteria:

Probability (P): likelihood of the impact occurring

Area (A) (Extent) : the extent over which the impact will be experienced.

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Duration (D) : the period over which the impact will be experienced.

Intensity (I) : the degree to which the impact affects the health and welfare of humans

and the environment (includes the consideration of unknown risks, reversibility of the impact, violation of laws, precedents for future actions

and cumulative effects).

The above criteria are expressed for each impact in tabular form according to the following definitions:

Table 10: Environmental impact criteria expressed for each impact in tabular form according to each definition.

Probability	Definition
Low	There is a slight possibility $(0 - 30\%)$ that the impact will occur.
Medium	There is a 30 –70% possibility that the impact will occur.
High	The impact is definitely expected to occur (70% +) or is already
	occurring.
Auga (Fustaunt)	Definition
Area (Extent)	Definition
Small	0 – 40 ha
Medium	
	40 – 200 ha
Large	200 + ha
Duration	Definition
Duration	Definition
Short	0 – 5 years
Medium	5 – 50 years
Long	51 – 200 years
Permanent	200 + years
1 Cililaticit	200 · years
Intensity	Definition
	Does not contravene any laws. Is within environmental
	standards or objectives. Will not constitute a precedent for
1	future actions. Is reversible.
Low	Will have a slight impact on the health and welfare of humans or
	the environment.
	Does not contravene any laws. Is not within environmental
	standards or objectives. Will not constitute a precedent for
Medium	future actions. Is not
caidiii	reversible. Will have a moderate impact on the health and
	welfare of humans or the environment.

High	Contravene laws. Is not within environmental standards or objectives. May constitute a precedent for future actions. Is irreversible. Will have significant impact on the health and welfare of humans or the environment.
Significance and Risk category	Definition
Negligible	The impact/risk is insubstantial and does not require management
Low	The impact/risk is of little importance, but requires management
Medium	The impact/risk is important; management is required to reduce negative impacts to acceptable levels
High	The impact/risk is of great importance, negative impacts could render options or the entire project unacceptable if they cannot be reduced or counteracted by significantly positive impacts positive impacts, and management of the impacts is essential
Positive (No Risk identified)	The impact, although having no significant negative impacts, may in fact contribute to environmental or economical Health

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4.3 RESULTS OF THE ENVIRONMENTAL IMPACT ASSESSMENT

4.3.1 Assessment of the Prospecting Application Area impacts/risks

Table 11: Construction Phase

NATURE OF THE IMPACT	ENVIRONMENTAL		IMPA	CT ASSESS	MENT		MITIGATION MEASURES			
NATORE OF THE INITIACT	ASPECT	E	P	D	I	S				
CONSTRUCTION PHASES										
Site Establishment. Establishment of the acce	ess (tracks)to the prospe	cting site,	Establishn	nent of the	campsite,	Site phys	ical surveying and Pegging of drilling sites			
			With	nout mitig	ation		Establishment of the site will be undertaken according to the			
The establishment of access and the surveying with pegging of the drilling		S	L	S	М	М	prospecting method statement.No soil stripping will be allowed			
sites may result in the stripping of soils if the site establishment is not properly conducted. This may result in the loss of soils and erosion that may render the area unusable. During site establishment, Machinery and vehicles used for the prospecting operation may result in hydrocarbon leakages, which may result in the contamination of the soils within the access tracks, campsite and drilling sites.	Soil/Land capability		Wi	th mitigat	ion	during site establishment. Ensure minimal disturbance of soil when conducting geophysical surveys and				
		S	L	S	L	L	geological mapping (if necessary). Any area that may result into the disturbance of the soils must be rehabilitated immediately on discovery. Machinery to be used for the operation will be of good working conditions. Any hydrocarbon spill from the site establishment will be remediated as soon as possible.			
Current land use over the area to be used for site establishment will cease	Land capability		With	nout mitig	ation		Use sites that are unused and that are in the degraded state for the			

NATURE OF THE IMPACT	ENVIRONMENTAL		IMPA	CT ASSESS	MENT	MITIGATION MEASURES		
NATORE OF THE IMITACI	ASPECT	E	Р	D	ı	S		
completely. This may have an impact on		S	М	S	М	М	proposed development. This will be	
the land owners' livelihood should they not be able to use the land.			Wi	th mitigat	ion	done in agreement with the land owner. The setting-up of the boreholes will be conducted to		
		S	L	S	L	L	ensure that rocky ridges, sensitive grass lands, indigenous trees and shrubs, site of geological importance and farmlands actively used for farming are avoided	
			With	nout mitig	ation	Use sites with most disturbed vegetation cover for the development. No strip of topsoil and		
The establishment of the site (access,	Natural vegetation	S	L	S	L	L	vegetation will be allowed during site	
campsite and drilling sites) may result in the removal of vegetation cover if the			Wi	ith mitigat	ion	establishment. Ensure minimal disturbance of vegetation when conducting geophysical surveys and		
establishment is not done correctly. This may render the land unusable to the land owners after completion of the project.		S	L	S	L	N	geological mapping. Any area that may result into the disturbance of the vegetation cover must be rehabilitated immediately on discovery.	
Animal burrows and habitats remaining within the proposed development site may be destroyed during construction.			With	nout mitig	ation	Establishment of the site will be undertaken according to the prospecting method statement. No		
This may result in the migration of remaining animal life away from the affected areas. Poaching of wild animals	Animal Life	S	L Wi	S th mitigat	l L ion	soil stripping will be allowed during site establishment. Any area that may result into the disturbance of the soils		

NATURE OF THE IMPACT	ENVIRONMENTAL		IMPA	CT ASSESS	MENT	MITIGATION MEASURES	
	ASPECT	E	Р	D	ı	S	
and livestock by the Laborers will result in the loss of wild live and loss of livestock to the land owner.		S	L	S	L	N	must be rehabilitated immediately on discovery. Use sites with most degraded environment for the site development. Poaching will be prohibited at the prospecting site
Exposure of soils during construction by the stripping of vegetation and soils may cause erosion, which may lead to			With	nout mitig	ation	1	Site establishment will not be undertaken within sensitive landscapes. These areas will be
increased silt loads in surface water		S	L	S	М	М	avoided. A distance of 500 meters will
runoff. This may result in the contamination of the clean water environment. Waste generated from the			Wi	th mitigat	ion	be created between the sites and the sensitive landscapes. Avoid stripping of areas within the construction sites.	
site may result in the contamination of surface and ground water should not management of such waste be undertaken.	Surface and Ground Water	S	L	S	L	L	Rehabilitate areas that may have been mistakenly stripped. Storm water upslope of the campsite and drill sites should be diverted around these areas. Proper waste management facilities will be put in place at the campsite and drilling site. Any hydrocarbon spill from the site establishment will be remediated as soon as possible.
Construction activities during the establishment of the site will include material loading and hauling. These	Air Quality		With	nout mitig	ation	Ensure that source specific management measures for	
		S	L	S	L	L	

NATURE OF THE IMPACT	ENVIRONMENTAL		IMPA	CT ASSESS	MENT	MITIGATION MEASURES	
	ASPECT	E	Р	D	1	S	
activities will result in the mobilization of particulates that will migrate away from the site to the nearby local residents. This			Wi	th mitigat	ion	Prospecting Application Area are complied with.	
will be a nuisance to the communities and will result in aesthetic impacts associated with fugitive dust emissions. On-site dust fall may have health and nuisance implications to employees at the existing offices.		S	L	S	L	N	
			With	nout mitig	ation		Ensure that proper management measures as well as technical changes are undertaken to reduce the impacts
		S	L	S	L	L	on surrounding residents and
The noise level generated from the construction activities may exceed the			Wi	th mitigat	ion	employees. This include ensuring that less noisy equipment is use, that equipment is kept in good working	
SANS 10103 Levels for Residential areas and may exceed the maximum rating levels for ambient noise indoors. This may have an impact in the surrounding residents and employees using/delivering the machinery.	Noise	S	L	S	L	N	order and that the equipment must be fitted with correct and appropriate noise abatement measures and where possible use white-noise generators instead of tonal reverse alarms on heavy vehicles operating on roads.
The activities undertaken during the construction of the shaft and associated	Visual Aspects		With	nout mitig	ation	Inform the landowner on the type of machinery and equipment to be used	
infrastructure will be visible from the		S	L	S	L	L	at the prospecting site. Ensure that

NATURE OF THE IMPACT	ENVIRONMENTAL		IMPA	CT ASSESS	MENT	MITIGATION MEASURES	
NATORE OF THE IMPACT	ASPECT	E	Р	D	ı	S	
nearby roads and properties. However, due to the undulating topography, visibility for the			Wi	th mitigat	ion	lighting is conducted in manner that will reduce the impacts on visual aspects at night times.	
most part will most probably be restricted to short distances		S	L	S	L	N	
			With	out mitig	ation		The establishment of the boreholes
The site may be located in close proximity to a heritage site and may result in the destruction of the identified heritage site.		S	М	S	Н	Н	will be such that the development isalways away from any heritage sites.
	Sites of Archaeological and		Wi	th mitigat	tion		A buffer of more than fifty meters will be created between the grave yards
	Cultural Importance	S	L	S	L	L	and the proposed site development. A management plan will be drafted for the sustainable preservation of the graveyards be identified on site. Any grave must have access for descendants.
The commencement of the proposed			With	out mitig	ation		
project may result in an influx of		S	L	S	L	L	Recruitment will not be undertaken
'outsiders' seeking jobs, which may be caused by increase in local unemployment levels. This may result in	Socio economic		Wi	th mitigat	ion		on site. Farm Labourers will not be employed unless agreed to with the
the potential increase in crime. It must however be noted that prospecting activities would unlikely attract job seeker due to its small nature of its scale.	aspects	S	L	S	L	N	 farm owners. Locals residing on neighboring portions of the farm will also be prioritized for employment.

Table 12: Operational Phase

NATURE OF THE IMPACT	ENVIRONMENTAL ASPECT		IMPAC	T ASSES	SMENT	MITIGATION MEASURES					
			Р	D	I	S					
OPERATIONAL PHASE											
	Drilling and rehabilitation of th	e explor	ation b	orehol	es						
			Witho	out miti	gation		Ensure that topsoil is properly stored, away from the streams				
Topsoil removal, storage and		S	М	S	L	L	and drainage areas. The soils must be used for the backfilling				
replacement during the excavation of the sumps will result. This will result in the disruption of the soils	Soils		Wit	h mitiga	ation	and rehabilitation of the sumps. The rehabilitated sump					
profile		S	L	S	L	N	recommended seed mix.				
The use of vehicles during the			Witho	ut miti	gation	Ensure that the drilling of the exploration boreholes is done					
setting up, pegging and drilling of the exploration boreholes may result in the spillages of hydrocarbon liquids from the vehicles and machinery. This will result in the contamination of the vegetation cover and soils. The material removed from the drilling exercises will contain carbonaceous material, which has a potential for pollution should it be allowed stay for a prolonged	Natural Vegetation and Soils	S	М	S	М	М	in such a manner that the environment is protected from probable spillages and contamination by carbonaceous material. All boreholes and sumps will be rehabilitated to pre-drilling conditions. Tarpaulins will be placed on the ground to prevent oil, grease, hydraulic fluid and diesel spills during				

NATURE OF THE IMPACT	ENVIRONMENTAL ASPECT		IMPAC	T ASSES	SMENT		MITIGATION MEASURES
		E	Р	D	I	S	
period at the drilling site. The above material, if not properly managed, may result in the contamination of the surrounding soils vegetation cover, which may render the land not usable after the backfilling operation.			Wit	h mitiga	ation		emergency repairs. All oil spills will be remedied using approved methodologies. The contaminated soils will be removed and disposed of at a licensed waste disposal facility. All waste generated from the drilling sites and the campsite will be collected in proper receptacles and removed top registered disposal facilities e.g., sewage treatment plant, sold waste disposal site or hydrocarbon recycling or treatment facilities
		S	L	S	L	L	
Animal burrows and habitats will be destroyed by the preparation of the backfilling sites. This will		Without mitigation					The rehabilitation of the disturbed areas must be conducted such that the
further result in the migration of		S	L	S	L	L	rehabilitation areas will
animals away from these areas of disturbance. It must however be noted that no significant amount	Animal Life With mitigation						encourage the migration of animals back into the rehabilitated areas. Poaching of
of animal life exists due to the agricultural activities currently undertaken at the proposed prospecting sites.		S	L	S	L	N	wild animals and livestock will be prohibited.

NATURE OF THE IMPACT	ENVIRONMENTAL ASPECT		IMPAC	T ASSE	SSMENT	•	MITIGATION MEASURES
			Р	D	ı	S	
			With	out mit	igation	No prospecting operations will be undertaken within 100 metres from the nearby	
The drilling operation may result		S	L	S	М	L	streams and 100 meters from
in the generation of surface water runoff contaminated with drilling muds and cuttings should spillages			Wit	h mitig	ation		the nearby wetland areas. The sumps will be excavated for the collection mud and excess
occur. The sedimentation and possible contamination with carbonaceous material will have negative impacts on the surrounding clean water environment. These will cause an increase in the turbidity and will decrease acidity of the water in the streams, which will affect the aquatic habitat of the wetland, hence important habitats may be lost.	Surface Water	S	L	S	L	L	water from the drilling sites. The sump will be sized such that it will be able to contain the water and mud that will be generated during the prospecting operation. Storm water generated around the drilling site will be diverted away to the clean water environment. No concrete mixing and vehicle maintenance will be allowed on site. All hydrocarbons will be stored on protected storage areas away from the streams
The prospecting operations will require the drilling of boreholes. The boreholes may result in the			With	out mit	igation		Ensure that the land owners' borehole yield is observed during the drilling operation. Should it be proven that the operation is indeed affecting
drawdown, which may affect the	Groundwater	S	L	S	L	L	
yield to the surrounding groundwater users. Material used for backfilling may leach pollutants			Wit	h mitig	ation	the quantity and quality of groundwater available to users	

NATURE OF THE IMPACT	ENVIRONMENTAL ASPECT		IMPAC	T ASSES	SMENT	MITIGATION MEASURES	
		E	Р	D	ı	S	
that will result in the pollution of the surrounding groundwater regime. This may even spread beyond the backfilling site via plume migration.		S	L	S	L	N	and surrounding water resources, the affected parties must be compensated
The prospecting operations will			Witho	out miti	gation		
require vehicular movement. This		S	L	S	L	L	Dust suppression must be
will result in the generation of			Wit	h mitiga	tion	conducted during the	
dust by movement of vehicles and due to blowing winds. Vehicles and machinery will also generate diesel or petrol fumes. Generated dust will migrate towards the predominant wind direction and may settle on surrounding properties including vegetation.	Air Quality	S	L	S	L	N	operational phase of the project. Correct speed will be maintained at the proposed project site. Vehicle maintenance must be conducted regularly to avoid excessive diesel fumes
Noise generated from prospecting		Witho	out miti	gation	Ensure that proper		
operations activities may add to	Noise	S	L	S	М	L	management measures as well
the current noise levels. This may	Noise		Wit	h mitiga	ition	as technical changes are	

NATURE OF THE IMPACT	ENVIRONMENTAL ASPECT		IMPAC	T ASSES	SMENT	MITIGATION MEASURES	
		E	Р	D	ı	S	
have impacts on surrounding property owners and occupiers.		S	L	S	L	L	undertaken to reduce the impacts on surrounding residents and employees. This include ensuring that less noisy equipment is use, that equipment is kept in good working order and that the equipment must be fitted with correct and appropriate noise abatement measures and where possible use white-noise generators instead of tonal reverse alarms on heavy vehicles operating on roads. Correct speed will be maintained at the proposed project site. Limit operation of machinery and vehicle movement between sunrise and sunset.
The drill rigs and towers used			Witho	out miti S	gation		Ensure that the period used for the drill rigs is optimized to
during the drilling operations will	Visual Aspects	S	L L		L	L	ensure that the drill rigs are
be visible from the nearby			Wit	h mitiga	ition		moved from one site to
residents and properties.		S	L	S	L	N	another over short periods.
			Witho	out miti	gation		Ensure that all safety measures
Operation may affect the day to day operation of the land owners hence result in direct impact on their livelihood	Socio economic aspects	S	L	S	L	L	(EMPr) are implemented to prevent the impacts on the property owners. Ensure that negotiations on

NATURE OF THE IMPACT	ENVIRONMENTAL ASPECT		IMPAC	T ASSES	SMENT	MITIGATION MEASURES	
		Е	Р	D	ı	S	
							compensation are undertaken before the drilling programme can commence. This will include any other conditions that the landowner may deem necessary for the prospecting operation.
		With mitigation					
		S	L	S	L	N	
Operation will result in the employment of locals and support on local businesses.	Socio economic aspects	POSOTIVE				The applicant will ensure that as far as possible locals will be used during the operation of the prospecting project.	
The drilling operation may result in the destruction of graves and any other heritage sites during	Sites archaeological and cultural importance	Without mitigation					Locate exploration borehole
		S	М	S	Н	Н	more than five hundred meters
			Wit	h mitiga	ition	from the identified heritage	
operational phase of the project.		S	S	S	L	L	sites

 Table 13: Decommissioning and Closure Phases

NATURE OF THE IMPACT	ENVIRONMENTAL		IMPA	CT ASSESS	MENT	MITIGATION MEASURES		
	ASPECT	E	P	D	ı	S		
DECOMMISSIONING AND CLOSURE PHASES								

NATURE OF THE IMPACT	ENVIRONMENTAL		IMPA	CT ASSESS	MENT	MITIGATION MEASURES	
	ASPECT	E	Р	D	ı	S	
The removal of the campsite equipment and the rehabilitation of the drilling sites and associated access infrastructure will result in the affected soil and land use being restored. This will also result in the resumption of the use of the land since the infrastructure would have been removed	Soils, Land Capability and Land Use	Positive impact					Ensure that rehabilitation is conducted in accordance with a rehabilitation method statements approved by the management. See description of the rehabilitation plan and management actions in the EMPr. Ensure that contamination of the rehabilitated area by carbonaceous material and hydrocarbon liquids are prevented.
Positive impacts will result due to the reduction in areas of disturbance and the return of land use of the affected areas and making available an area that was covered by the campsite drilling sites.	Land Use		Po	sitive imp	act	Ensure that rehabilitation is conducted in accordance with a rehabilitation method statements approved by the management. See description of the rehabilitation plan and management actions in the EMPr. Ensure that contamination of the rehabilitated area by carbonaceous material and hydrocarbon liquids are prevented.	
The use of vehicles/machinery during the rehabilitation of the exploration sites may result compaction of soils and in the spillages of hydrocarbon liquids from the vehicles and machinery. This will result in the contamination of and destruction of the vegetation cover and soils.	Soils and Natural Vegetation	S	М	oout mitigat	М	M	Ensure that the rehabilitation work is done in such a manner that the environment is protected from probable spillages and contamination by carbonaceous material. Tarpaulins will be placed on the ground to prevent oil, grease, hydraulic fluid and diesel spills during emergency

NATURE OF THE IMPACT	ENVIRONMENTAL ASPECT		IMPA	CT ASSESS	MENT	MITIGATION MEASURES	
		Е	Р	D	ı	S	
		S	L	S	L	L	repairs. All oil spills will be remedied using approved methodologies. The contaminated soils will be removed and disposed of at a licensed waste disposal facility. All waste generated from the drilling sires and the campsite will be collected in proper receptacles and removed top registered disposal facilities e.g., sewage treatment plant, sold waste disposal site or hydrocarbon recycling or treatment facilities.
During the decommissioning and closure			With	nout mitiga	ation		
phases equipment will be removed,	Surface Water	S	L	S	L	L	
stockpiled soils will be used for rehabilitation, remaining sumps will be backfilled, levelled, top soiled and the area re-seeded. During the process of rehabilitation surface water runoff from the rehabilitation site may have elevated silt load, which may cause pollution of the nearby water environment		With mitigation					Ensure that water leaving the site do not have elevated silt load. Ensure that the rehabilitated areas are free
		S	L	S	L	N	draining and that water from these areas is clean.

NATURE OF THE IMPACT	ENVIRONMENTAL ASPECT		IMPA	CT ASSESS	MENT	MITIGATION MEASURES	
		Е	Р	D	1	S	
Rehabilitation and removal of the prospecting sites and equipment will require vehicular movement. This will result in the vehicles and due to blowing winds. Vehicles and machinery will also generate diesel or petrol fumes. Generated dust will migrate towards the predominant wind direction and may settle on surrounding properties including nearby vegetation.	Air Quality		With	nout mitig	ation	Dust suppression must be conducted during the decommissioning phase of the project whenever excessive dust	
		S	L	S	L	L	is generated. Correct speed will be maintained at the proposed project
			Wi	th mitigat	ion	rehabilitation sites. Vehicle maintenance must be conducted regularly to avoid excessive diesel	
		S	L	S	L	N	fumes.
Noise will be generated during the removal of equipment and rehabilitation of the sites. This noise is not expected to exceed occupational noise limits and will be short lived.			With	nout mitig	ation	Where necessary, provided employees with ear plugs and employees must be instructed to use	
	Noise	S	L	S	L	L	the ear plugs. Ensure that equipment
			Wi	th mitigat	ion	is well maintained and fitted with the correct and appropriate noise abatement measures.	
		S	L	S	L	N	

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4.4 SUMMARY OF SPECIALIST REPORTS.

Based on the information collected from the desktop information, no specialist studies were deemed necessary to be conducted for the proposed project. This will be confirmed during site visit.

4.5 ENVIRONMENTAL IMPACT STATEMENT

Warifa Assets (Pty) Ltd has applied for a prospecting right on Portion 1 and 2 of Petersburg of Oribi Vlakte 6534 GT Farm area. The prospecting operation will involve the exploration for Coal Ore within the prospecting right area. Diamond core drilling will be used or the exploration and a campsite will be established on site. Each drilling site will have an access route in the form of a track and a sump for the collection of wastewater generated during the drilling operation.

The area under investigation comprised of generally flat topography. The site falls within a semiarid rainfall region with relative low rainfall, which slightly reduced the potential impacts associated with soil erosion.

The proposed prospecting site is classified as non-arable land with a moderate to low grazing capacity with cattle farming and maize meal plantation being the predominant land use in the area.

The prospecting site is located in a semi-arid region and the protection of water quality and availability has been identified as aspects of key importance within the municipality and the general region. Mostly in the area they depend on the purified piped water but also a dependency on ground water resources has been identified; however, no Water Use License has been lodged with the Department of Water and Sanitation.

The conservation status unknown, since no ecology study was undertaken. There are no graves present within the prospecting area observed during the site visit and no heritage study will be deemed necessary to be undertaken.

4.6 FINAL SITE MAP

(Provide a map at an appropriate scale which superimposes the proposed overall activity and its associated structures and infrastructure on the environmental sensitivities of the preferred site indicating any areas that should be avoided, including buffers.)

The final maps showing the layouts of the proposed project plan are included on this report and same will be submitted to the DMR on granting of the prospecting right. The map has been developed to superimpose the proposed prospecting project together and associated infrastructure with the environmental sensitivities within the proposed project site.

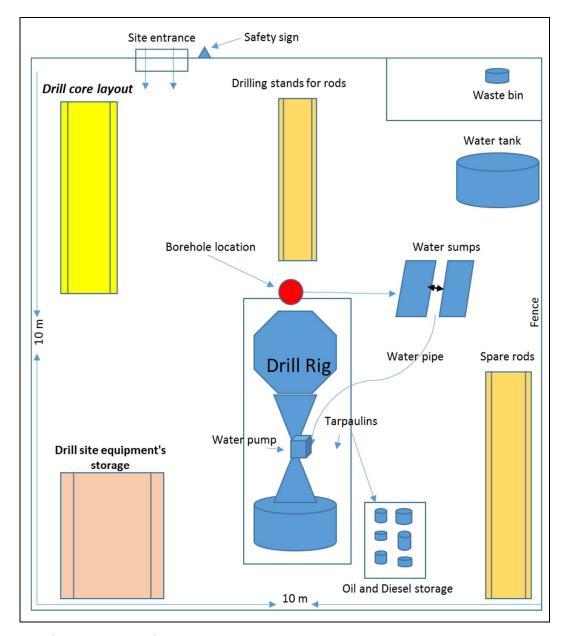


Figure 11: Drill Site Layout plan for the prospecting project area

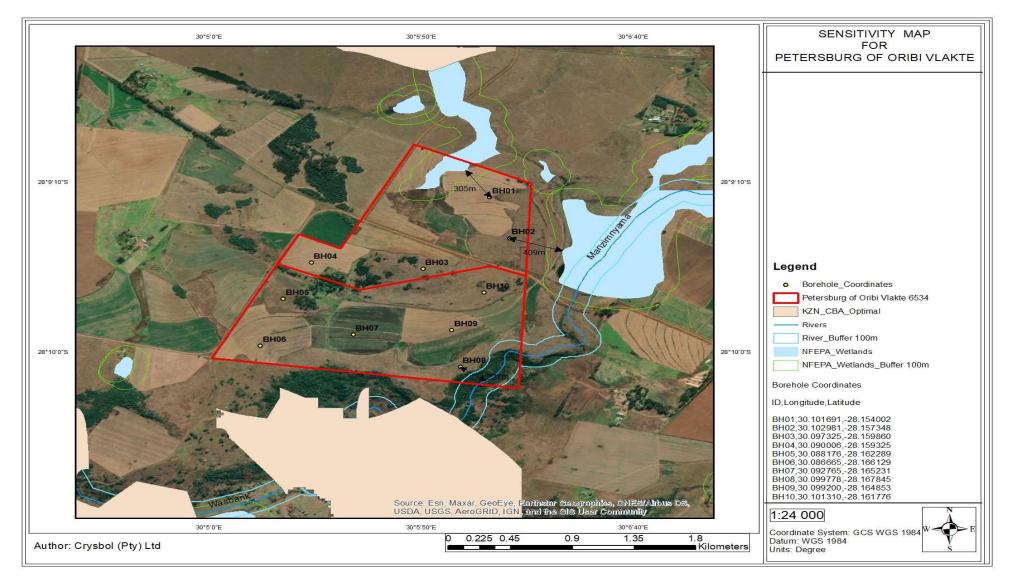


Figure 12: Borehole location layout for the prospecting area superimposed on environmental sensitivities within the proposed project site

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4.7 SUMMARY OF THE POSITIVE AND NEGATIVE IMPACTS AND RISKS OF THE PROPOSED ACTIVITY AND IDENTIFIED ALTERNATIVES;

The impacts of the proposed site layout will be the same. There are no alternative sites selected however should they be a need for such to any unexpected discoveries such as graves, such alternatives site may be identified during the prospecting exercise. The alternative sites will be identified based on the location of sensitive environments such as heritage sites (graves etc.), wetlands, riparian zones, and areas with Red Data Species. Changes in the layout plan will be discussed and agreed on with the affected landowners

The nature of these projects are such that they don't create a magnitude impact on job creations, however as a positive contribution to the community and the environment, unknown geological and lithological become discovered and studied and to contribute to the knowledge of the area for future explorations. Should the prospecting activity yield positive results, mining right application will be logged which if granted will then contribute to the job creation of the surrounding community.

Negative impacts of the project have been discussed on the previously section and mitigation measures thereof that will be applied. Generally prospecting activities have low impact on the environment and such impacts can be controlled and avoided or minimised therefore the layout does not require revision.

4.8 PROPOSED IMPACT MANAGEMENT OBJECTIVES AND THE IMPACT MANAGEMENT OUTCOMES FOR INCLUSION IN THE EMPR;

Based on the assessment and where applicable the recommendations from specialist reports, the recording of proposed impact management objectives, and the impact management outcomes for the development for inclusion in the EMPr as well as for inclusion as conditions of authorisation.

The objectives of the EMPr will be to provide detailed information that will advise project during Construction, Operation, Decommissioning and Post Closure Phases of the proposed project in order to avoid and/or reduce impacts that may be detrimental to the environment.

The proposed project's ultimate goal with regard to the environmental management is to manage all the significant environmental aspects by addressing, managing and controlling the environmental impacts of the work, and ensuring a continuous monitoring of environmental performance, and continual improvement in environmental performance through:

 Providing sufficient information to the prospecting activities as to avoid unnecessary social and environmental impacts

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- Ensuring an approach that will provide the necessary confidence in terms of environmental compliance.
- Providing a management plan that is effective and practical for implementation

The key impact management outcomes would be the efficient and environmentally responsible management of the site and rehabilitate correctly. With the successful implementation of the recommended mitigation measures and rehabilitation of borehole site, roads and directional drilling sites, these will be converted back into productive agricultural sites or grazing areas.

4.9 ASPECTS FOR INCLUSION AS CONDITIONS OF AUTHORISATION.

(Any aspects which must be made conditions of the Environmental Authorisation)

In order to minimise potential impacts associated with the establishment and management of the site, the following measures must be implemented and therefore included as conditions of the authorisation:

- Disturbed areas must be rehabilitated to a quality that matches or replicates the surrounding area.
- The EMPr must be implemented fully at all stages of the proposed project
- No activities may take place within 50m from any river or surface water body.
- No trees or shrubs will be felled or damaged for the purpose of obtaining firewood
- The site shall be seeded with a vegetation seed mix adapted to reflect the local indigenous flora.
- Topsoil must be removed from all areas where physical disturbance of the surface will occur.
- All available topsoil must be removed prior to the commencement of any operations.
- The drilling activities should be restricted to daytime
- All wastes generated must be disposed of at an appropriate registered landfill and disposal certificate be kept on site.
- Creation of new access roads should be minimised as far as possible.
- The speed of haul trucks and other vehicles must be strictly controlled to avoid dangerous conditions; excessive dust or excessive deterioration of the road being used.

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4.10 DESCRIPTION OF ANY ASSUMPTIONS, UNCERTAINTIES AND GAPS IN KNOWLEDGE.

(Which relate to the assessment and mitigation measures proposed)

This BAR is based on the following assumption(s), uncertainties and gaps:

- The information provided by the applicant is accurate, sufficient and unbiased, and that
 no information that could change the outcome of the authorisation process has been
 withheld.
- It is uncertain that all issues brought forth by the interested and affected parties during the period of public participation process (30 days) where indeed the only issues available.
- That any potential impacts on the environment associated with the proposed prospecting activities will be avoided, mitigated, or offset.
- Wafira Assets (Pty) Ltd will follow the conditions of the EA and applicable legislation for the duration of the project.

4.11 REASONED OPINION AS TO WHETHER THE PROPOSED ACTIVITY SHOULD OR SHOULD NOT BE AUTHORISED

Reasons why the activity should be authorized or not.

- The desktop studies have proven that the site is located on a mineralised zone, prospecting activities must be undertaken to confirm the ore reserves. Environmental Management Plan has been developed to ensure proper mitigation measures are implemented to elevate and or minimise and any impact.
- It has also been noted that mining sector is the pillar of South African economy and also provides employment opportunities for many therefore if the results of this prospecting work are conducive for a mining application this will benefit the country as a whole.
- The option of not approving the activities will result in a significant loss to valuable information regarding the status of the ore bodies present on these properties.
- In addition to this, should economical reserves be present and the applicant does not have the opportunity to prospect, the opportunity to utilize these reserves for future phases will be lost as well.

Conditions that must be included in the authorisation

Refer to section 6.9 above

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4.12 PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS REQUIRED.

The Prospecting Right has been applied for a period of five (5) years. The Environmental Authorisation should therefore allow for the four (4) years of prospecting and one (1) year for decommissioning and rehabilitation.

4.13 UNDERTAKING

(Confirm that the undertaking required to meet the requirements of this section is provided at the end of the EMPr and is applicable to both the Basic assessment report and the Environmental Management Programme report).

The undertaking is provided at the end of the EMPr and is applicable to both, this Basic Assessment Report and the EMPr in Part B, below.

4.14 FINANCIAL PROVISION

The Regulations pertaining to the Financial Provision for Prospecting, Mining and Production Operations promulgated under Section 44(A) (e), (f), (g), (h) read with sections 24(5)(b)(ix), 24(5)(d), 24N, 24P and 24R of the National Environmental Management Act, 1998 (Act 107 of 1998) (20 November 2015) have been considered and this is anticipated to result in an increase in the rehabilitation costs estimated using the above mentioned quantum.

The amount that is required to both manage and rehabilitate the environment in respect of rehabilitation is reflected in the quantum of financial provision in Section 35 (Part B) of the report.

4.15 SPECIFIC INFORMATION REQUIRED BY THE COMPETENT AUTHORITY

Aside from the BAR and EMPr, the competent authority also requires the proof of consultation, health and safety prospecting ability and financial ability.

4.16 IMPACT ON THE SOCIO-ECONOMIC CONDITIONS OF ANY DIRECTLY AFFECTED PERSON.

The potential impacts on the socio-economic conditions have the potential to include:

Safety and security risks to landowners and lawful occupiers:

The potential exists for a group of unfamiliar workers to enter the project area during the
prospecting activities. This impact could potentially affect the local communities. However,
the impact will be minimal as people on site will be limited to the Applicant, contractors
and geologists.

Interference with existing land uses:

Access to the application area when conducting prospecting activities will be required
which may interrupt the existing land uses, such as livestock grazing, residential
developments and game activities. However, this impact will be minimal as no heavy
equipment will be brought on site and it is of short duration.

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Perceptions and expectations:

 The proposed Prospecting Right may create interest, particularly in the potential for employment and concerns over damage to natural resources. However, the impact will be minimal as there will be on-going, open and transparent communication with affected stakeholders, communities and landowners.

Expropriation of land and displacement of landowners:

At present this impact is not anticipated and is considered improbable. However, should it
occur, negotiations with affected landowners will be undertaken and any loss of revenue
caused by the prospecting works will be reasonably compensated in order to minimise
this impact.

Job creation:

• Where possible, the Applicant and contractors will source local labour. This will enable the use of the local labour force and as such create employment for locals. Due to the technical skills required to undertake prospecting works, the number of jobs would not be substantial and duration thereof would be short lived. In this regard, the nature of this impact is rated as positive. However, the significance thereof is relatively low.

Discovery of economically viable minerals

Should prospecting prove successful and a resource quantified, it would indicate a
potential for a viable economic activity in the form of mining. Mining will contribute greatly
for local economic stimulation through direct employment, future business opportunities,
royalties and tax revenues.

The consultation process will allow directly affected parties to raise their concerns. Further to this, it must be noted that I&APs, including directly affected parties were given the opportunity to review and comment on the draft BAR+EMPR. The results of the public consultation have been included in the final report submitted to the Department for adjudication.

4.17 IMPACT ON ANY NATIONAL ESTATE REFERRED TO IN SECTION 3(2) OF THE NATIONAL HERITAGE RESOURCES ACT.

There are no significant heritage resources present on the site and significant impacts are thus not expected. However, should there be any artefacts discovered on site during any phase of the prospecting work, such discovery will be reported to SAHRA and at the mean time all the activities should cease.

4.18 OTHER MATTERS REQUIRED IN TERMS OF SECTIONS 24(4)(A) AND (B) OF THE ACT.

There are no other matters required in terms of Section 24(4)(A) and (B) of the Act.

PART B

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

5. ENVIRONMENTAL MANAGEMENT PROGRAMME.

5.1 DETAILS OF THE EAP

The details of the EAP are provided in section 1.1 of part A of this document.

5.2 DESCRIPTION OF THE ASPECTS OF THE ACTIVITY

The requirements to describe the aspects of the activity are covered by the environmental management programme and are included in PART A of the document under section 1. The reader is therefore referred to section 1 of PART A of this document.

5.3 COMPOSITE MAP

The map superimposing the proposed project, its associated structures and infrastructure on the environmental sensitivities of the preferred site has been attached on this document Figure below. Note that all areas that must be avoided due to their environmental sensitivity are indicated in the map.

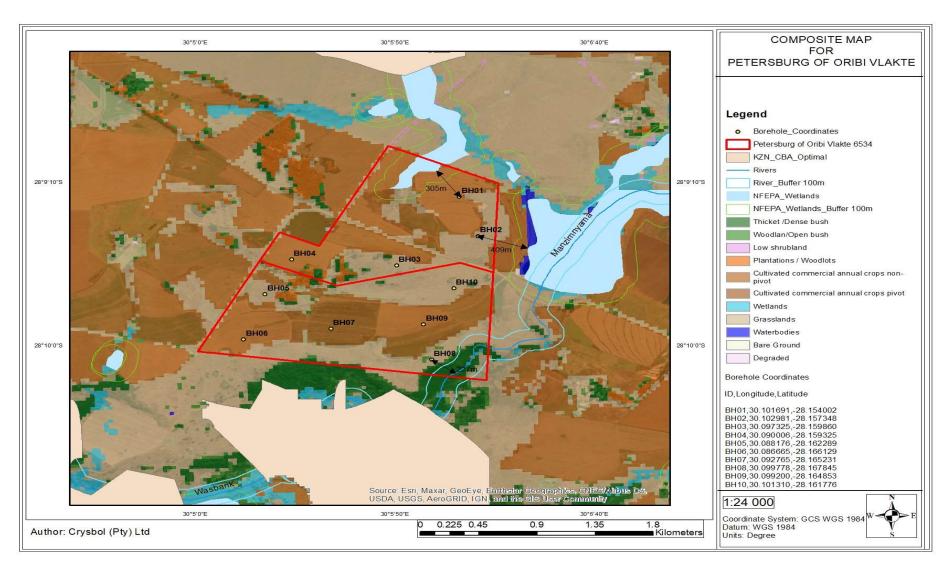


Figure 13: Composite map for the proposed prospecting right application.

5.4 DESCRIPTION OF IMPACT MANAGEMENT OBJECTIVES INCLUDING MANAGEMENT STATEMENTS

The main closure objective is to ensure that the site is left as close as possible to the preprospecting state after completion of the borehole drilling activities. This will be achieved through continuous management and rehabilitation of the site and this can be achieved through three stages of the prospecting lifecycle (rehabilitation, decommissioning and closure activities and remediation of residual or latent environmental impacts). The following closure sub-objectives will guide the closure plans:

- Minimise erosion in areas that are already disturbed;
- Ensure that the impacted areas are free draining;
- Ensure the areas are safe for all people;
- Protect drainage lines and watercourses;
- Ensure that no temporary infrastructure is left on-site during long periods of cessation or upon closure; and
- Ensure environmental risks are minimised.

5.5 VOLUMES AND RATE OF WATER USE REQUIRED FOR THE OPERATION.

1000L of water per day on maximum production day of drilling

5.6 HAS A WATER USE LICENCE HAS BEEN APPLIED FOR?

No-Water Use Licence has not been applied for; this is due to the fact that no water extraction & diversion will be done from any water source. All water which will be used will be brought on site by a water tank for the sole purpose of this project. The brought in water will be bought from a licenced water supplier who sells potable water or treated industrial water for which a water sale agreement will be provided before work commences and is submitted to the DMR.



Figure 14: Indicating a mobile water cart

5.7 IMPACTS TO BE MITIGATED IN THEIR RESPECTIVE PHASES

Measures to rehabilitate the environment affected by the undertaking of any listed activity

Table 14: summary of rehabilitation measures to undertake

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
				1. Construction Phas	е			
	Esta	blishment of access, to pro	ospecting sites, establis	shment of the campsite, ph	ysical surveying of the	site and pegging of dril	ling boreholes	
Loss of soils, erosion of the soils and impacts on owner's livelihood	Soils, Land Use and Land capability	To ensure that the activities in the development of the prospecting sites and associated infrastructure do not have detrimental impacts on the soils, land use and land capability	Ensure that the establishment of the prospecting sites is undertaken in accordance with the approved EMPr	Establishment of the site will be undertaken according to the prospecting method statement	Appointed contractor and site manager	Visual monitoring through inspections.	Environmental Control Officer (ECO) during construction.	During construction phase
				No soil stripping will be allowed during site establishment	Appointed contractor	Visual monitoring and inspections	ECO monthly	During construction phase
				Should it be necessary to conduct geophysical surveys and geological mapping, ensure minimal disturbance of soil.	Appointed contractor	Visual monitoring and inspections.	ECO monthly	During construction phase
				Should it be necessary to conduct geophysical surveys and geological mapping, ensure minimal disturbance of soil.	Appointed contractor	Visual monitoring and inspections	ECO monthly	During construction phase
				Any area that may result into the disturbance of the soils must be rehabilitated immediately on discovery	Appointed contractor and the applicant site manager	Visual monitoring and inspections.	ECO monthly	During construction phase

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
				Machinery to be used for the operation will be of good working conditions. Any hydrocarbon spill from the site establishment will be remediated as soon as possible	Appointed contractor	Visual monitoring and inspections	ECO monthly	During construction phase
				Use sites that are unused and that are in the degraded state for the proposed development. This must be done in agreement with the land owner. The setting up of the boreholes must be conducted such that ensure that rocky ridges, sensitive grass lands, indigenous trees and shrubs, sites of geological importance and farmlands actively used for crop farming are avoided.	Appointed contractor	Undertake regular inspections	ECO monthly	During construction phase
Loss of natural vegetation in the affected areas	Flora	To ensure that the establishment of the prospecting site and associated infrastructure/equipment do not have detrimental impact on the area's flora	The management of the impact will comply with the company's biodiversity management plan.	Use sites with most disturbed vegetation cover for the development.	Appointed contractor and site manager.	Visual monitoring and inspections.	ECO monthly	During construction phase

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
				No strip of topsoil and vegetation will be allowed during site establishment	Appointed contractor and site manager.			During construction phase
				Ensure minimal disturbance of vegetation when conducting geophysical surveys and geological mapping	Appointed contractor and site manager.	Visual monitoring and inspections	ECO monthly	During construction phase
				Any area that may result into the disturbance of the vegetation cover must be rehabilitated immediately on discovery	Appointed contractor and site manager.	Visual monitoring and inspections.	ECO monthly	During construction phase

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
Migration of animal life due to disturbance caused proposed project	Animal Life	Ensure that the animal life within in the project is not affected by the proposed project	Maintenance of the current status on animal life within the project area	Establishment of the site will be undertaken according to the prospecting method statement	Appointed contractor and site manager	Visual monitoring and inspections.	ECO monthly	During construction phase
				No soil stripping will be allowed during site establishment. Any area that may result into the disturbance of the soils must be rehabilitated immediately on discovery	Appointed contractor and site manager.	Visual monitoring and inspections.	ECO monthly	During construction phase
				Use sites with most degraded environment for the site development	Appointed contractor and site manager.	Visual monitoring and inspections	ECO monthly	During construction phase

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
				Poaching will be prohibited at the prospecting site	Appointed contractor and site manager	Visual monitoring inspections	ECO monthly	During construction phase
Deterioration of water quality in the nearby steams and within the groundwater regime	Surface and Ground Water	Ensure that the establishment of the project and its associated infrastructure does not have detrimental impact on nearby stream and the groundwater regime	The quality of streams and groundwater within the site will comply with the target DWS target water quality objectives. Construction will be in compliance with the regulations under the GN704.	Site establishment will not be undertaken within sensitive landscapes. These areas will be avoided. A distance of 500 meters will be created between the sites and the sensitive landscapes.	Appointed contractor and site manager.	Regular inspections	ECO monthly	During construction phase
				Avoid stripping of areas within the construction sites.	Appointed contractor and site manager	Regular inspections	ECO monthly	During construction phase

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
				Rehabilitate areas that may have been mistakenly stripped	Appointed contractor and site manager.	Regular inspections	ECO monthly	During construction phase
				Storm water upslope of the campsite and drill sites should be diverted around these areas	Appointed contractor and site manager.	Regular inspections	ECO monthly	During construction phase

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
				Proper waste management facilities will be put in place at the campsite and drilling site. Any hydrocarbon spill from the site establishment will be remediated as soon as possible.	Appointed contractor and site manager.	Regular inspections	ECO monthly	During construction phase
Wetland destruction and loss of habitat.	Sensitive Landscapes	Ensure that the construction activities do not have detrimental impacts on the sensitive landscapes	Maintain the current state of the sensitive landscapes within the project area (farm dams and seepage zone).	Construction activities will be limited to be more than five hundred meters from the site establishment will be remediated as soon as possible.	Appointed contractor and site manager.	Inspection to ensure compliance with the action plan will be conducted at the construction site.	Eco will conduct the inspections monthly	Whenever construction is undertaken near the sensitive landscapes

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
Air pollution through air pollutants' emissions, from the construction site.	Air quality	Ensure that the operations during the construction phase do not result in detrimental air quality impacts.	The construction will be undertaken such that the ambient air quality does not exceed the National Air Quality Standards	Wet suppression using will be conducted at areas with excessive dust emissions.	Appointed contractor and site manager	Visual inspection of areas with possible dust emissions.	ECO monthly	Throughout the construction phase
				Traffic will be restricted to demarcated areas and traffic volumes and speeds within the construction site will be controlled	Appointed contractor and site manager	Regular inspections	ECO monthly	Throughout the construction phase.

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
Increased noise levels.	Noise aspects	Ensure that the noise levels emanating from the construction sites will not have detrimental effects on the mine employees and surrounding communities/and owners.	The noise levels from the construction sites will be managed and measures will be taken to ensure that noise levels are below the National Noise Control Regulations, SANS10103:2008 guidelines.	Limit the maximum speed to 60 km/h or less, subject to risk assessment. Less noisy equipment will be used, the equipment will be kept in good working order and the equipment will be fitted with correct and appropriate noise abatement measures	Undertake speed checks on speed used	Undertake site checks on speeds used.	Site manager	Throughout the construction phase.

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
				Ensure that the employees are issued with earplugs and that they are instructed to use them.	Site manager	Speed checking will be conducted.	Site manager checking as regularly as possible	Throughout the duration of the construction phase.
				Educate employees on the dangers of hearing loss due to mine machinery noise	Site manager	Use of earplugs will be checked and reported	Site manager will check the use of the earplugs as regularly as possible	Throughout the duration of the construction phase.
Visual impacts on the surrounding communities and road users from the construction	Visual aspects	Ensure that the operations during the construction phase do not result in detrimental visual impacts on surrounding properties communities and road users	Measures will be undertaken by the mine to ensure that visual aspects from the site are complying with the relevant visual standards objectives	The land owner will be informed on the type of machinery and equipment to be used at the prospecting sites	Applicant and site manager	The constructed perimeter berms will be inspected for compliance the design specifications	Mine Engineer on a monthly basis.	Throughout the construction phase.

Impact Activity Reference	Environmental Attribute	Impact Management Objectives	Targets (Impact Management Outcomes)	Management Actions and Interventions	Responsibility for Actions/Intervention	Monitoring Action	Responsibility and Frequency for Monitoring	Time period for Management Action
				Lighting will be conducted in manner that will reduce the impacts on visual aspects at night times	Appointed Contractor	Night time inspection of the site will be undertaken	The site manager once	During construction phase
Damage or destruction of sites with archaeological cultural significance.	Sites of archaeological and cultural importance	Ensure that the construction activities do not have detrimental impacts on the heritage sites.	The construction will be undertaken in compliance with the requirements of the National Heritage Resources Act, 1999 (Act 25 of 1999) and recommendations from the specialist.	The establishment of the sites will be away from any identified grave site or heritage sites. A buffer of five hundred meters will be created between the sites and the proposed camp and drilling sites.	Applicant and site manager	The site will be monitored for any damages on a regular basis.	ECO monthly	Throughout the construction phase when activities are in close proximity to the heritage sites
Impact from the influx of job seekers and employment of farm Labourers	Socio-economic aspects	Ensure that measures are taken to discourage influx of job seekers and employment of farm Labourers	Measures taken will be in line with the company's recruitment policies	Recruitment will not be undertaken on site. Farm Labourers will not employed unless agreed to with the farm's owners	Appointed contractor and site manager	Visual monitoring	Site manager	Throughout the pre- construction a construction phase

5.8 FINANCIAL PROVISION

Section 24 P of NEMA requires an applicant applying for an environmental authorisation related to mining to comply with the prescribed financial provision for the rehabilitation, closure and ongoing post decommissioning management of negative environmental impacts before the Minister responsible for mineral resources issues the environmental authorisation. The above-mentioned financial provision may be in the form of an insurance, bank guarantee, trust fund or cash.

Regulations pertaining to the financial provision for prospecting, exploration, mining or production operations (GNR 1147) were promulgated on the 20th of November 2015. Wafira Assets (Pty) Ltd has undertaken the financial provision determination in line with the requirements of section 11 of the Regulations pertaining to the Financial Provision for Prospecting, Exploration, Mining or Production Operations (GNR 1147). The financial provision determination for the proposed project is submitted to the Department of Mineral Resources for their consideration

5.9 DESCRIPTION OF CLOSURE OBJECTIVES AND EXTENT TO WHICH THEY HAVE BEEN ALIGNED TO THE DESCRIBED BASELINE ENVIRONMENT

The closure objectives for the proposed project as detailed under section 7.4. of the EMPr, were determined in consideration of physical (infrastructure), biophysical (environmental) and socioeconomic measures as well as alignment to the closure components provided by the Department of Mineral Resources (DMR). See section 7.4.1 for the closure objectives.

5.10 CONFIRM SPECIFICALLY THAT THE ENVIRONMENTAL OBJECTIVES IN RELATION TO CLOSURE HAVE BEEN CONSULTED WITH LANDOWNER AND INTERESTED AND AFFECTED PARTIES.

The environmental objectives in relation to closure plan will be consulted with the land owners as well as farmers and affected parties. The consultation will be done through public participation process which included submission of draft BAR and EMP'r Within the document content all aspects relating to the environment and the impacts posed by the proposed projects where outlines, furthermore, mitigation measure and closure plan was also outlined for the restoration land to its original land state.

5.11 REHABILITATION PLAN FOR THE PROPOSED PROJECT

In terms of Regulation 23 of NEMA EIA Regulations, 2014, an EMPr must address the requirements as determined in the regulations, pertaining to the financial provision for the rehabilitation, closure and post closure of the proposed operations. In view of the above, a rehabilitation plan for the proposed project has been compiled and detailed below:

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In order to obtain a self-sustainable and stable closure plan, the following will be done where natural grassland had been disturbed during the prospecting process.

a. Rehabilitation and Closure

The clearing of soil surface areas would be restricted to what is really necessary for prospecting purpose. During the closure of these sites, or where vegetation is lacking or compacted, the areas would be ripped or ploughed and levelled in order to re-establish a growth medium and if necessary, appropriately fertilised to ensure the regrowth of vegetation and the soil ameliorated based on a fertilizer recommendation (soil sample analysed).

As the project progresses there will be an increase in the topsoil surface area disturbed initially but also at the same time concurrent rehabilitation will take place which involves the replacement of topsoil on backfilled drilled holes.

I. Rehabilitation of access roads

- Whenever a prospecting right is suspended, cancelled or abandoned or if it lapses
 and the holder does not wish to renew the right, any access road or portions thereof,
 constructed by the holder and which will no longer be required by the
 landowner/tenant, shall be removed and/or rehabilitated to the satisfaction of the
 Regional Manager.
- Any gate or fence erected by the holder which is not required by the landowner / tenant, shall be removed and the situation restored to the pre prospecting situation.
- Roads shall be ripped or ploughed, and if necessary, appropriately fertilised (based on a soil analysis) to ensure the regrowth of vegetation. Imported road construction materials which may hamper regrowth of vegetation must be removed and disposed of in an approved manner prior to rehabilitation.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the prospecting operation, be corrected and the area be seeded with a seed mix to the Regional Manager's specification.

II. Rehabilitation of the surface prospecting site

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On completion of operations, all buildings, structures or objects on the camp/office site shall be dealt with in accordance with section 44 of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002), which states:

- When a prospecting right, mining right, retention permit or mining permit lapses, is cancelled or is abandoned or when any prospecting or mining operation comes to an end, the holder of any such right or permit may not demolish or remove any building, structure, object -
 - A & b. which may not be demolished in terms of any other law;
 - b. which has been identified in writing by the Minister for purposes of this section; or
 - c. Which is to be retained in terms of an agreement between the holder and the owner or occupier of the land, which agreement has been approved by the Minister in writing?
- 2. The provision of subsection (1) does not apply to bona fide mining equipment which may be removed After all the foreign matter has been removed from the sites, the excavations shall be backfilled with subsoil, compacted and levelled with previously stored topsoil. No foreign matter such as cement or other rubble shall be introduced into such backfilling.

All rescued plants should be bagged and kept on a designated on-site nursery, and should be returned to site once all prospecting is completed and rehabilitation of disturbed areas is required. Replanting should only occur in springs or early summer (September to November), once the first rains have fallen, in order to facilitate establishment.

Seed should be collected from plants earmarked for removal prior to disturbance, in order to reduce the impact on plants. If seeds are collected from nearby seedbanks, it may indirectly affect the availability of seed as a source of food for a variety of animals and birds.

On completion of the prospecting operation, the above 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 the site, shall be spread evenly to its original depth over the whole area. The area shall then be fertilised if necessary (based on a soil analysis). The site shall be seeded with a vegetation seed mix adapted to reflect the local indigenous flora. Where the site has been rendered devoid of vegetation/grass or where soils have been compacted owing to traffic, the surface shall be scarified or ripped.

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Photographs of the camp and office sites, before and during the prospecting operation and after rehabilitation and closure, shall be taken at selected fixed points and kept on record for the information of the Regional Manager.

Photographs of the different borehole sites, before and during the prospecting activities, after rehabilitation and closure, shall be taken at selected fixed points and kept on record for the regional manager's information and annual reporting.

Rehabilitation of the new topographical landscape in such a way that it would blend in with the surrounding landscape and allow normal (controlled) surface drainage to continue. Implement water control systems in order to prevent erosion. Visual impact would be addressed by means of:

- Re-vegetation (grasses);
- Removal of any building, scrap, domestic waste, etc. that would otherwise contribute to a negative visual impact.

III. Fertilising of Areas to be rehabilitated

If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining operation be corrected and the area be seeded with a seed mix to his or her specification.

IV. Seeding of Grass Seed Mixture and planting of Woody Species

The eventual seed mixture takes into account the availability of seed, different soil situations and the prevailing climatic conditions of the area. The following mixture will be applicable to the boreholes on prospecting site:

- Crown grass
- Scotch grass
- Common couch
- Meadow grasses
- Panicum maximum

a. Demolition of infrastructure/buildings

On completion of operations, all structures on the prospecting terrain shall be dealt with in accordance with section 44 of the Mineral and Petroleum Resources Development Act,2002 (Act No. 28 of 2002).

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b. Invasive and alien control programme

Develop and implement an invasive and alien control programme to control the spread of weeds and other invasive species. Eradicate exotic weeds and invader species if it invades the terrain. All illegal invader plants and weeds shall be eradicated as required in terms of Regulation 15 & 16 of the Act on Conservation of Agricultural Resources, 1983 (Act no. 43 of 1983) which list the plants.

c. Final Land use after rehabilitation

The land use within the proposed prospecting project area will not change after the prospecting activities. However, for the first three (3) years after the drilling of boreholes especially on the drilled rehabilitated area, the area will need to be monitored every second month and more of agriculture activities will need to be conducted to bring the land to its original state.

5.12 EXPLAIN WHY IT CAN BE CONFIRMED THAT THE REHABILITATION PLAN IS COMPATIBLE WITH THE CLOSURE OBJECTIVES

The rehabilitation plan is compatible with the closure objectives in that is seeks to ensure that negative impacts on the receiving environment that could not be prevented or mitigated during prospecting are rehabilitated. The use of indigenous species during revegetation will ensure that ecosystem restoration is initiated and prevent invasion by alien species. The capping of drill holes will prevent future environmental issues related to fluid leakage or lateral movement through the drill hole, as well as protect water resources. The appropriate disposal of waste will ensure that land is usable and in alignment with surrounding land uses and that, no hazardous materials will be left on site post-prospecting.

5.13 CALCULATE AND STATE THE QUANTUM OF THE FINANCIAL PROVISION REQUIRED FOR MANAGING AND REHABILITATING THE ENVIRONMENT IN ACCORDANCE WITH THE APPLICABLE GUIDELINE.

The table below details the quantum for financial provision for the Final Rehabilitation, Decommissioning and Closure Plan.

	CALCULATION OF THE QUA	NTUM			Ref No.: KZN 30	/5/1/1/2/11185 PR		
Applicant:	Wafira Assets (PTY) LTD				Date: 27-Jan-22			
			Α	В	С	D	E=	A*B*C*D
No.	Description	Unit	Quantity	Master Rate	Multiplication factor	Weighting factor 1		Amount Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	17.33	1	1	R	-
2 (A)	Demolition of steel buildings and structures	m2	0	241.33	1	1	R	-
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	355.65	1	1	R	=
3	Rehabilitation of access roads	m2	0	43.19	1	1	R	=
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	419.16	1	1	R	-
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	226.63	1	1	R	-
5	Demolition of housing and/or administration facilities	m2	0	482.67	1	1	R	-
6	Opencast rehabilitation including final voids and ramps	ha	0	253019.03	1	1	R	-
7	Sealing of shafts adits and inclines	m3	0	129.56	1	1	R	-
8 (A)	Rehabilitation of overburden and spoils	ha	0,1	168679.35	1	1	R	168679.35
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	210087.08	1	1	R	-
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	610192.47	1	1	R	-
9	Rehabilitation of subsided areas	ha	0	14124	1	1	R	-
10	General surface rehabilitation	ha	0,2	133622.5	1	1	R	26724.5
11	River diversions	ha	0	133622.5	1	1	R	-
12	Fencing	m	0	152.42	1	1	R	=
13	Water management	ha	0	50807.03	1	1	R	-
14	2 to 3 years of maintenance and aftercare	ha	0,2	17782.46	1	1	R	3556.492
15 (A)	Specialist study	Sum	0			1	R	=
15 (B)	Specialist study	Sum				1	R	-
					Sub	Total 1	R	47148.927
1	Preliminary and General	4589,	51136	weightir	ng factor 2	- R	5657.87124	
2	Contingencies				4714.8927		R	4714.8927
						total 2	R	57521.69
					VAT	(15%)	R	8053.04
					d Total	R	65575	

5.14 CONFIRM THAT THE FINANCIAL PROVISION WILL BE PROVIDED AS DETERMINED.

Wafira Assets (Pty) Ltd will be funding this project and financial provisions will be provided as determined.

5.15 MECHANISMS FOR MONITORING COMPLIANCE WITH AND PERFORMANCE ASSESSMENT AGAINST THE ENVIRONMENTAL MANAGEMENT PROGRAMME AND REPORTING THEREON, INCLUDING

Table 15: Mechanism for monitoring compliance

SOURCE ACTIVITY	IMPACTS REQUIRING MONITORING PROGRAMMES	FUNCTIONAL REQUIREMENTS FOR MONITORING	ROLES AND RESPONSIBILITIES (FOR THE EXECUTION OF THE MONITORING PROGRAMMES)	MONITORING AND REPORTING FREQUENCY and TIME PERIODS FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS
Drilling and Sumps (Site Establishment)	The clearing of vegetation	Monitor daily	Geologist/ EAP	Daily by Geologist, annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	The storage of hydrocarbon-based materials on site	Monitor daily	Geologist/ EAP	Daily by Geologist, annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	On-site waste management	Monitor daily	Geologist/ EAP	Daily by Geologist, annually by independent environmental assessment practitioner to compile the required annual environmental

SOURCE ACTIVITY	IMPACTS REQUIRING MONITORING PROGRAMMES	FUNCTIONAL REQUIREMENTS FOR MONITORING	ROLES AND RESPONSIBILITIES (FOR THE EXECUTION OF THE MONITORING PROGRAMMES)	MONITORING AND REPORTING FREQUENCY and TIME PERIODS FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS
				compliance report required by the DMR
Drilling	The creation of roads/tracks	Monitor daily	Geologist/ EAP	Daily by Geologist, annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	The removal of storage and soil	Monitor daily	Geologist/ EAP	Daily by Geologist, annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	Driving activities	Monitor daily	Geologist/ EAP	Daily by Geologist, annually by independent environmental assessment practitioner to compile the required annual environmental

SOURCE ACTIVITY	IMPACTS REQUIRING MONITORING PROGRAMMES	FUNCTIONAL REQUIREMENTS FOR MONITORING	ROLES AND RESPONSIBILITIES (FOR THE EXECUTION OF THE MONITORING PROGRAMMES)	MONITORING AND REPORTING FREQUENCY and TIME PERIODS FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS
				compliance report required by the DMR
Drilling	Groundwater: Monitor the water quality of the boreholes	Monitor daily	Geologist/ EAP	Daily by Geologist, annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR

5.16 INDICATE THE FREQUENCY OF THE SUBMISSION OF THE PERFORMANCE ASSESSMENT/ ENVIRONMENTAL AUDIT REPORT.

The result of environmental monitoring and compliance to the approved EMPR will be undertaken every second year and submitted to the DMR in the form of an environmental performance assessment. Included in the report will be the following relevant information:

- The period when the performance assessment was conducted.
- The scope of the assessment.
- The procedures used for conducting the assessment.
- Interpreted information gained from monitoring the EMPR.
- Evaluation criteria used during the assessment.
- Results of the assessment are to be discussed and mention must be made of any gaps in the EMPR and how it can be rectified.
- Yearly updated layout plans.

Any emergency or unforeseen impacts will be reported immediately to the DMR and other relevant government departments.

5.17 ENVIRONMENTAL AWARENESS PLAN

a) Way the applicant intends to inform his or her employees of any environmental risk which may result from their work.

All employees will be provided with environmental awareness training to inform them of any environmental risks which may result from their work and the manner in which the risks must be dealt with in order to avoid pollution or the degradation of the environment. Employees will be provided with environmental awareness training before prospecting operations start. All new employees will be an Inducted on environmental awareness which will be provided to all employees by a reputable trainer. Daily and weekly meetings will be held with employees to discuss all environmental issues.

b) Manner in which risks will be dealt with in order to avoid pollution or the degradation of the environment.

The above section gives an overview of the manner in which the risks will be dealt with in order to avoid pollution. Approved documents such as EA, and EMP as well EMS will be used as

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reference documents for any impacts related to the project. Training of employees in relation to environmental awareness will touch base on issues such;

- Access, including use of roads, tracks, gates, etc.
- Control measures required to manage no go areas.
- The handling, storage and disposal of waste.
- Weed control.
- Fire prevention.
- Sediment and erosion control.
- Control measures to be implemented with regards to the management of water, noise and dust.
- General Health and Safety Matters

5.18 SPECIFIC INFORMATION REQUIRED BY THE COMPETENT AUTHORITY

(Among others, confirm that the financial provision will be reviewed annually).

The financial provision will be reviewed on an annual basis or as requested by DMR.

5.19 UNDERTAKING

The EAP herewith confirms

- a. the correctness of the information provided in the reports;
- b. the inclusion of comments and inputs from stakeholders and I&APs;
- c. the inclusion of inputs and recommendations from the specialist reports where relevant; and

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d. that the information provided by the EAP to interested and affected parties and any responses by the EAP to comments or inputs made by interested and affected, parties are correctly reflected herein.

The state of the s	
Signature of the environmental assessment practitioner:	
Crysbol (Pty) Ltd	
Name of company:	
27/01/2022	
Date:	

-END-