

BASIC ASSESSMENT REPORT AND ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

PROSPECTING RIGHT REPORT BY GADEBE INVESTMENTS CC FOR COAL AND GRAVEL RESOURCES ON FARM GOEDGEDACHT 228 IR, MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE.

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DMR REF: MP 30/5/1/1/2//15613 PR

Draft Report



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

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).

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FILE REFERENCE NUMBER SAMRAD: DMR REF: MP 30/5/1/1/2//15613 PR

1. IMPORTANT NOTICE

In terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended), 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 (1) (c) the competent Authority must check whether the application has taken into account 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.

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 the 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.

Table of Contents

1. IMPORTANT NOTICE.....	2
PART A.....	9
SCOPE OF ASSESSMENT AND BASIC ASSESSMENT REPORT.....	9
1. Contact Person and correspondence address	9
2. Locality map.....	10
3. Description of the scope of the proposed overall activity.	11
(i) Listed and specified activities.....	13
(ii) Description of the activities to be undertaken	13
Phase 1 – Desktop Study - Analysis of Existing Data GIS & analytical desktop studies Surveys	13
Phase 2 – Aerial and Ground Geophysics, Multi-Spectral AND Aerial Surveys	14
Phase 3 –Drilling and Reconnaissance Resource Generation	14
Phase 4 – - Resource drilling, Sampling and Analysis, Resource Estimation and Prefeasibility Study	16
Phase 5- Feasibility Study.....	16
Listed and specified activities	17
4. Policy and Legislative Context	17
5. Need and desirability of the proposed activities	19
6. Motivation for the overall preferred site, activities and technology alternative.	19
7. Full description of the process followed to reach the proposed preferred alternatives within the site.....	20
8. Details of the development footprint alternatives considered.....	20
a.the property on which or location where it is proposed to undertake the activity;	20
b.the type of activity to be undertaken;.....	20
c.the design or layout of the activity;.....	20
d.the technology to be used in the activity;	20
e.the operational aspects of the activity; and.....	20
f.the option of not implementing the activity.....	20
9. Details of the Public Participation Process Followed.....	23
a.Summary of issues raised by I&As	31
b.The Environmental attributes associated with the alternatives.(The environmental attributed described must include socio-economic, social, heritage, cultural, geographical, physical and biological aspects)	36
a)Baseline Environment.....	36
Topography.....	36
Regional Climate	37
Air Quality	38
Regional Ambient Air Quality	38
Noise	39

Geology.....	39
Regional Geology	39
General Geology.....	40
Local Geology	42
Soil Study.....	43
Water Resources.....	44
Surface Water	45
Ground Water	46
Flora and Fauna.....	47
Heritage Resources.....	50
Socio-Economic.....	51
b)Description of the current land uses.	51
c)Description of specific environmental features and infrastructure on the site.....	52
10.Environmental and current land use map.....	54
11.Impacts and risks identified including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts	55
12.Methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks;	57
Criteria to Consider when Determining Severity of impacts	57
13. The positive and negative impacts that the proposed activity (in terms of the initial site layout) and alternatives will have on the environment and the community that may be affected.	61
Potential impact on heritage resources.....	61
Potential impacts on communities, individuals, or competing land uses in close proximity	61
Potential impact of vegetation.....	61
14. The possible mitigation measures that could be applied and the level of risk.	62
Responsibility	62
Community relations	62
Layout Plan.....	63
Workers	63
Protection of flora and fauna.....	63
Road safety and access	63
Water	63
Office / Camp Site.....	64
Vehicles and Fuel	64
Toilet facilities	64
Waste management.....	65
Effluents.....	65
Access to drill sites	65

Drilling.....	65
Heritage Resources.....	65
Windblown sand and dust.....	66
Noise	66
Rehabilitation	66
Environmental Related Emergencies and Remediation	66
15. Motivation where no alternative sites were considered.....	68
16. Statement motivating the alternative development location within the overall site.....	68
17. Full description of the process undertaken to identify, assess and rank the impacts and risks the activity will impose on the preferred site (In respect of the final site layout plan) through the life of the activity.....	69
18. Assessment of each identified potentially significant impact and risk.....	70
<i>The supporting impact assessment conducted by the EAP must be attached as an appendix, marked Appendix.....</i>	72
19. Summary of specialist reports.....	72
20. Environmental impact statement	73
(i)Summary of the key findings of the environmental impact assessment;	73
(ii)Final Site Map	74
21. Proposed impact management objectives and the impact management outcomes for inclusion in the EMPr;.....	77
22. Aspects for inclusion as conditions of Authorisation.....	78
23. Description of any assumptions, uncertainties and gaps in knowledge.....	78
24. Reasoned opinion as to whether the proposed activity should or should not be authorised.....	78
I.Reasons why the activity should be authorized or not.....	78
II.Conditions that must be included in the authorisation.....	79
25. Period for which the Environmental Authorisation is required.....	79
26. Undertaking	79
27. Financial Provision	79
a.Explain how the aforesaid amount was derived.....	80
b.Confirm that this amount can be provided for from operating expenditure.....	80
28. Specific Information required by the competent Authority	81
29. Other matters required in terms of sections 24(4)(a) and (b) of the Act.....	82
PART B	83
ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT	83
1)Draft environmental management programme.....	83
a)Details of the EAP.....	83
b)Description of the Aspects of the Activity	83
c)Composite Map	83

d)Description of Impact management objectives including management statements	83
I.Determination of closure objectives.....	83
Environmental Legislation	83
National Environmental Management Act, Act 107 of 1998 (NEMA).....	84
I. Volumes and rate of water use required for the operation.....	84
II. Has a water use licence has been applied for	84
III.Impacts to be mitigated in their respective phases.....	86
IV Impact Management Outcomes.....	87
V Impact Management Actions.....	89
30. Financial Provision	91
2) UNDERTAKING	125

LIST OF FIGURES

Figure 1: Locality Map of the PR Application Area.....	11
Figure 2: Site Plan of the Area.	12
Figure 3: Geological with number and the positions of boreholes within the proposed land .	15
Figure 4: General Layout for prospecting area activities.....	17
Figure 5: Windeed Search.....	24
Figure 6: Newspaper placement on Streek Nuus/News Delmas	26
Figure 7: Newspaper placement on Streek Nuus/News Bronkhorspruit	27
Figure 8: Site notice which was placed during site assessment.....	29
Figure 9: Topography of the area.....	36
Figure 10: Wind characteristics of the permit areas.....	37
Figure 11: Depiction of the Witbank coalfield (represented by W).....	40
Figure 12: The stratigraphic column of the Witbank coalfield.	41
Figure 13: The local Geology of the area.	42
Figure 14: picture of outcrop rock identified during site assessment	42
Figure 15: Soil classification map of the area of interest.	44
Figure 16: The sub-catchment of the project area inclusive.	45
Figure 17: Environmental Sensitive Area Wetlands with the Buffer zone.....	46
Figure 18: Some of the plant identified during site assessment	48
Figure 19: Vegetation diversity on the area of interest.....	48
Figure 20: Critical biodiversity within the affected land by proposed project	50
Figure 21: Land use Map of the area of interest.....	51
Figure 22: Pictures shows the current land use within the proposed land.....	52
Figure 23: Environmental features and Infrastructures around the site	53
Figure 24: Environmental and current land use map.....	54
Figure 25: Dolerite rock which was seen during site assessment	68
Figure 26: Map which shows the number and the position of the proposed land.....	74
Figure 27: Biodiversity map of the area as form part of deciding boreholes positions	75

Tables

Table 1: Locality	10
Table 2: Listed and specified activities	13
Table 3: Prospecting timeframes and activities.....	15
Table 4: Policy and Legislatives	17
Table 5: Summary of positive and negative impacts	76
Table 6: Rehabilitation plan.....	92
Table 7: Quantum Calculation.....	95

Appendix

Appendix A: DMR LETTERS.....	126
Appendix B: Maps for the project.....	130
Appendix C: Background Information Document.....	126
Appendix D: Land owners consultation and their responses	129
Appendix E: Responses from Stakeholders and Communications with the EAP	147
Appendix F: Proof of Site Assessment and Site Notices Plugging.	162
Appendix G: Company Profile	129

PART A
SCOPE OF ASSSMENT AND BASIC ASSESSMENT REPORT

1. Contact Person and correspondence address

a) Details of the EAP and Project Reviewer

The EAP

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Project Reviewer

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Cell No.: 078 272 7839

Fax No.: 086 514 4103

E-mail address.: kenneth@singoconsuting.co.za

(i) Expertise of the EAP and Project Reviewer.

CV attached- SEE **Error! Reference source not found.**

b) Location of the overall Activity

Table 1: Locality

Farm Name:	Portion of the remaining extent, Portions 3, 4, 5, 6, 7, 8, 11, 13, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR.		
Application area (Ha)	Approximately 1247.577 Ha		
Magisterial district:	Magisterial District of Delmas		
Distance and direction from nearest town	Town	Distance (km)	Direction
	Delmas	7.28 Km	North East
	Witbank	59.02 km	South West
	Middelburg	83.32 km	South West
	Springs	33.55 km	North East
21-digit Surveyor General Code for each farm portion	TOIR00000000022800017		

2. Locality map

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

The project area is located in Delmas at approximately 7.28KM from Delmas town. The farm boundary covers the farm houses, R555 road, river, industries and pans/ wetlands inclusive within the boundaries. The farm area can be accessed through a tar road from N12 and R555 roads from Emalahleni town and Springs using the same road. The site can also be accessed through N17 connecting to R42 Heading North to Delmas and off-ramping to R555 to the proposed project(Goedgedacht 228 IR). The area is characterized by a flat to gentle undulating topography whilst the farm is operational for grazing and cultivation, settlement and industries.

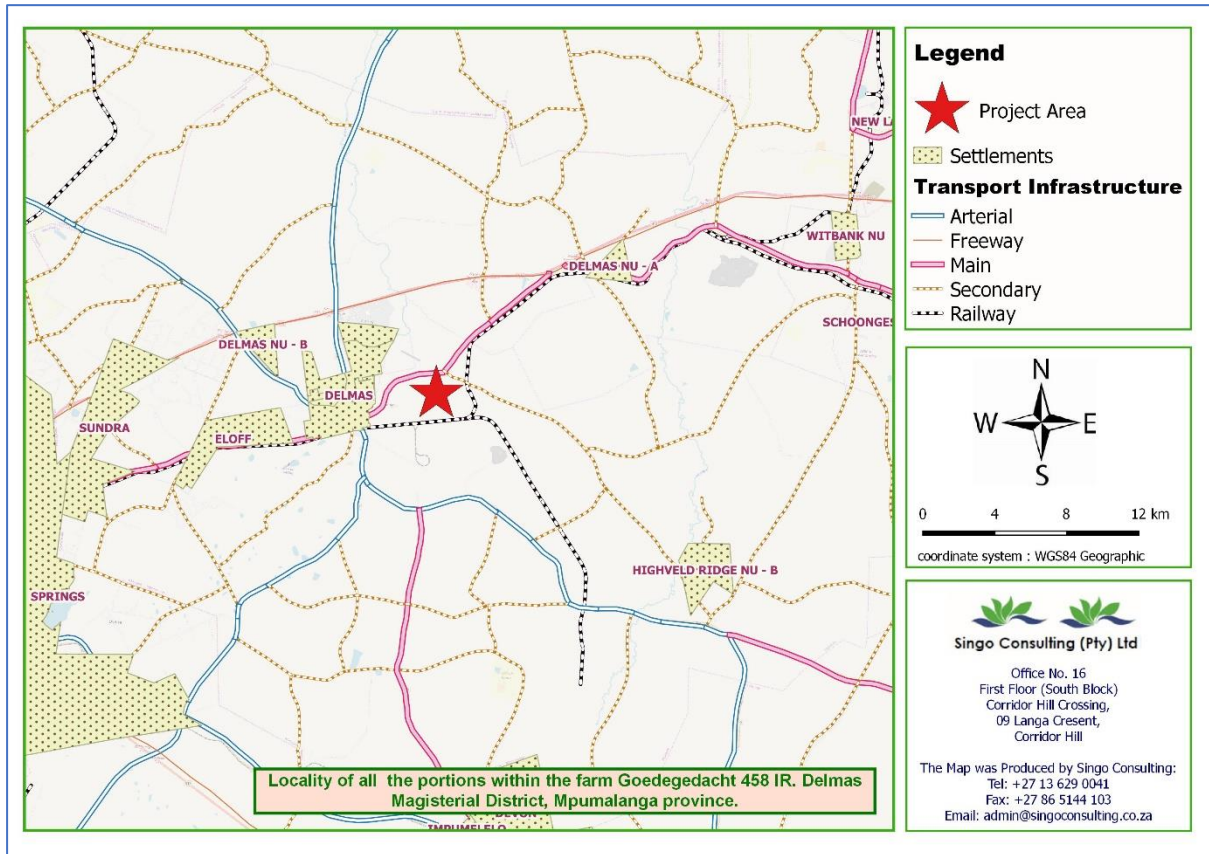


Figure 1: Locality Map of the PR Application Area.

3. 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

Phase 1: Non-Invasive Prospecting:- Desktop Study - Analysis of Existing Data GIS & analytical desktop studies Surveys

Phase 2: Non-Invasive Prospecting:- Multi-Spectral and Aerial Surveys

Phase 3: Invasive Prospecting:- Reconnaissance Borehole drilling, Sampling and Analysis

Phase 4: Invasive Prospecting: - Resource drilling, Sampling and Analysis, Resource Estimation and Pre-Feasibility Study

Phase 5- Feasibility Studies and Mining Right Application

Since exploration is temporary in nature no permanent structures will be constructed, negotiations and agreements may be made with the farm owners to use any existing infrastructure like access roads and other things like workshops. No accommodation will be provided on site.

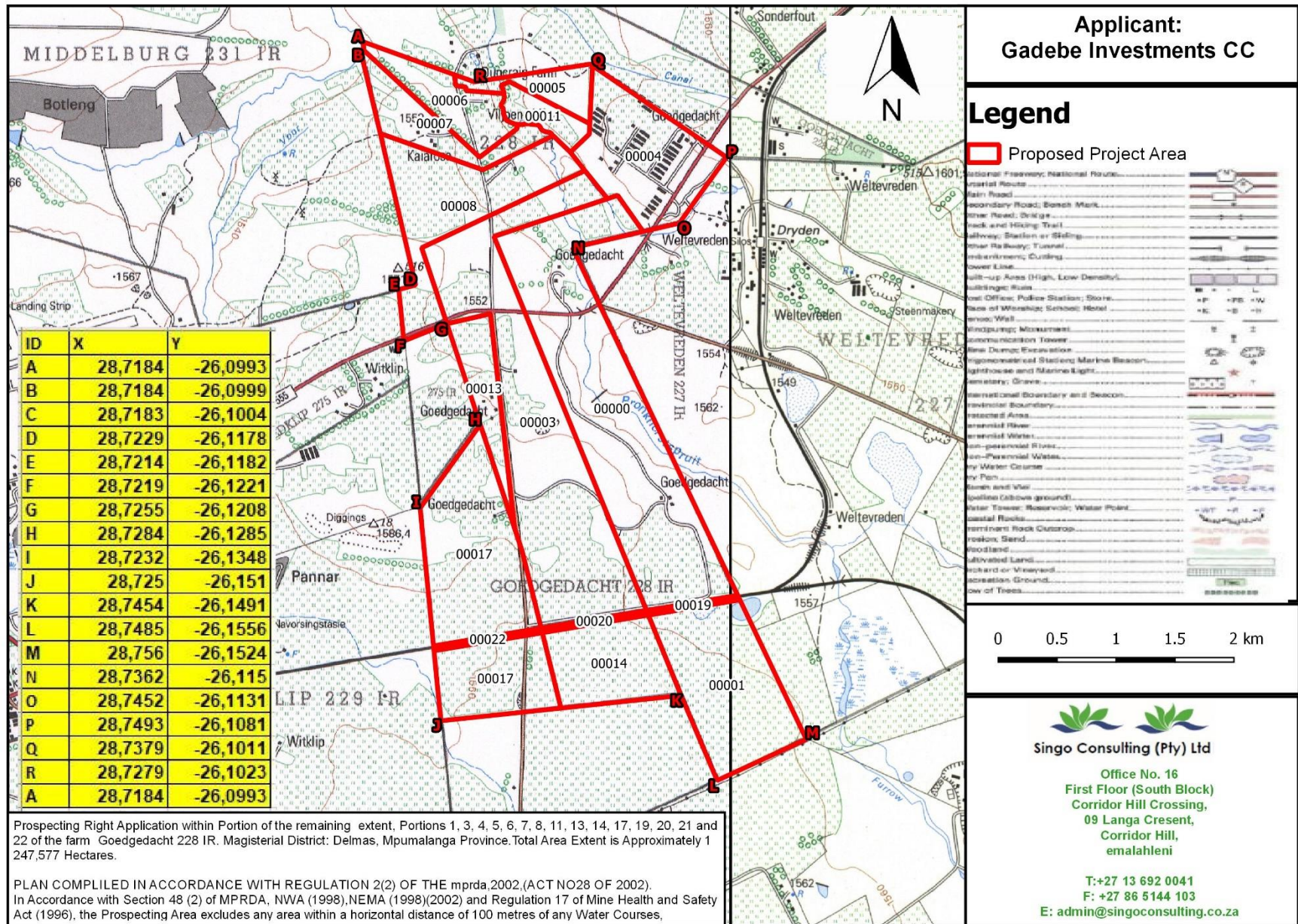


Figure 2: Site Plan of the Area.

(i) Listed and specified activities

Table 2: Listed and specified activities

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
Prospecting Area	0.9 ha / 1247.577ha 20*30=600m ² *15 boreholes=9000m ² 9000m ² ÷10000=0.9ha	X	GNR 327 Listing Notice 1, Activity 20.	Not required
Vegetation clearing	0.9 ha		Not Listed	
Drilling	0,9 ha		Not listed	

(ii) Description of the activities to be undertaken

(Describe Methodology or technology to be employed, including the type of commodity to be prospected / mined and for a linear activity, a description of the route of the activity)

Phase 1: Non-Invasive Prospecting:- Desktop Study - Analysis of Existing Data GIS & analytical desktop studies Surveys

Phase 2: Non-Invasive Prospecting:- Multi-Spectral and Aerial Surveys

Phase 3: Invasive Prospecting:- Reconnaissance Borehole drilling, Sampling and Analysis

Phase 4: Invasive Prospecting: - Resource drilling, Sampling and Analysis, Resource Estimation and Pre-Feasibility Study

Phase 5- Feasibility Studies and Mining Right Application

Phase 1 – Desktop Study - Analysis of Existing Data GIS & analytical desktop studies Surveys

The exploration records of all previous work in the area will be re-examined, and the following studies will be carried out:

- Literature review
- Detailed aerial photograph and satellite image interpretation
- Regional airborne geophysics with main emphasis on magnetic and gravity
- Regional soil geochemistry interpretation

- Geological mapping will also be carried out.

These records will need to be captured into a GIS format for geological modelling and exploration scheduling analysis.

This work will form an initial desktop and surface fieldwork study to be continued during the period that the prospecting permit application is being assessed and, presumably, approved. A period of 6 months is estimated for this.

Phase 2 – Aerial and Ground Geophysics, Multi-Spectral AND Aerial Surveys

Once targets have been generated in the first phase there will be a need to follow up on these targets. Aerial and ground geophysics supported by Multi Spectral and aerial surveys to sharpen the identified potential areas to determine the sidewall properties, profiles and average grades and to do drill hole targeting. It is anticipated that phase will take approximately 6 months to complete.

Phase 3 –Drilling and Reconnaissance Resource Generation

In the event that the present application is approved and areas with possible targets for the minerals applied for, this identified prospective target will require further subsurface investigation.

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

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

It is anticipated that initially approximately 15 drill-holes will be drilled. Drill holes could vary in depth from 25m to 100m, with an average depth in the order of 750 meters. The total amount of drilling to be budgeted for at this stage is 100 meters. See the location of boreholes proposed within the propose portions according to the geological information on the map below *Figure 3*.

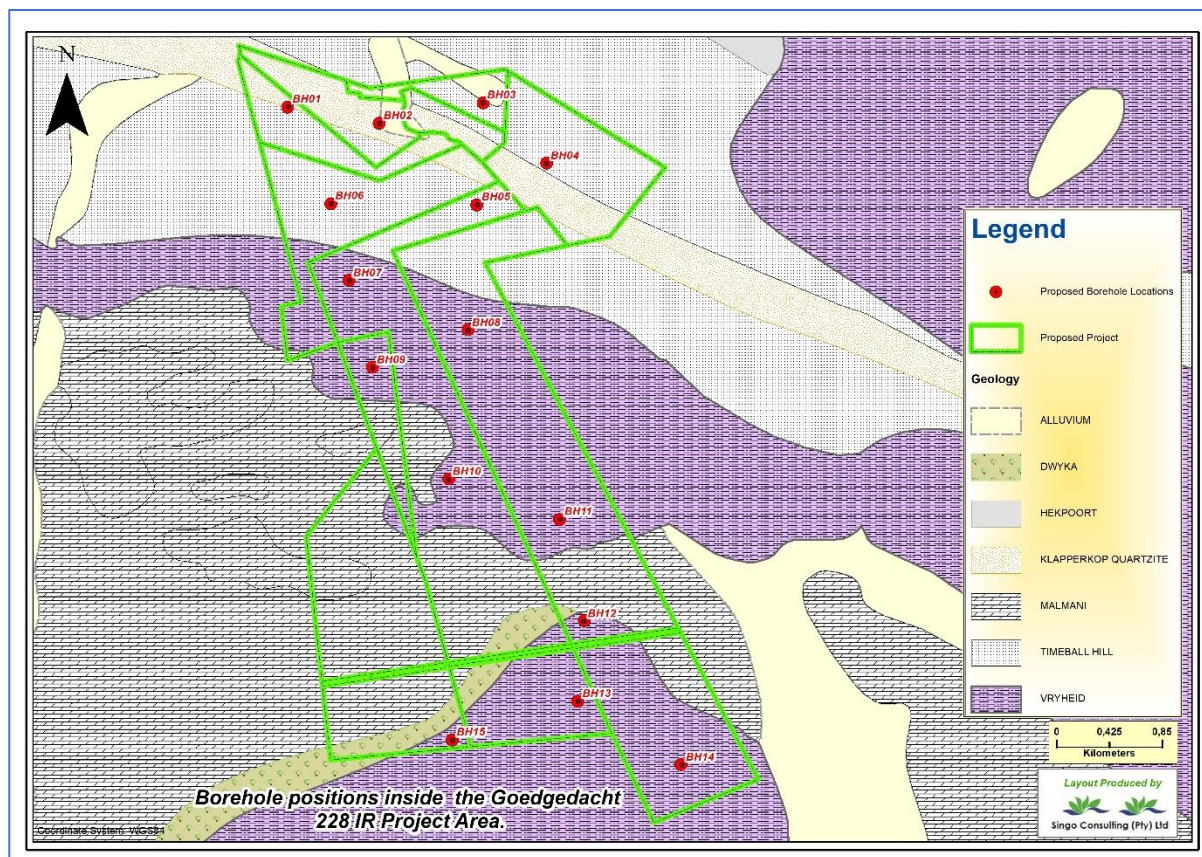


Figure 3: Geological with number and the positions of boreholes within the proposed land

Table 3: Prospecting timeframes and activities

Phase	Activity	Skills	Timeframe	Outcome	Outcome timeframe
1	Acquire historical geological/ exploration data over area applied for and surrounds	Geologist	6 months	<ul style="list-style-type: none"> • Compile data • Refine exploration strategy 	6 months
2	Drilling (10 boreholes)	Geologist	6 months	Drilling to test for Coal and Gravel	6 months
3	Drilling (5 boreholes based on phase 1 drilling results)	Geologist	30 months	Assess what further work is warranted. Amend PWP	24 months
4	Analytic stage EIA and Mining Right Application (MRA)	Geologist, Environmentalist	30 months	Feasibility studies Resource statements	24 months

As is clear from the information provided in Table 3, each of the phases is dependent on the results of the preceding phase. The location and extent of drill sites and possible diamond drilling cannot be determined at this stage and, as such, mapping of the prospecting activities could not be undertaken. In the subsequent sections (Part B) more details are provided in terms of each of the prospecting activities.

The applicant must submit a plan indicating the location of drilling activities, once these areas have been finalised, to at least all landowners, as well as the DMR and the Department of Water and Sanitation (DWS).

Phase 4 – Resource drilling, Sampling and Analysis, Resource Estimation and Prefeasibility Study

Dependent on the results of Phase 3 drilling further 2 drill-holes totalling between 100-700 meters may be required. The geological information generated will be used to model and estimate resource. The resources will at least be expected to be in the Indicated Category according to the appropriate reporting standard (SAMREC, JORC, or NI43 -101).

Phase 5- Feasibility Study

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

- Resource drilling
- Geological Modelling
- Planning the infrastructure requirements
- Environmental management planning
- Financial modelling
- Market analysis
- Analysis of transport logistics to markets
- Assessment of personal and training requirements
- Assessment of socio-economic factors

A feasibility study is multidisciplinary in nature, and requires the highest levels of expertise available. Such studies are both costly and time consuming

All listed activities will be done or

performance within the radius of $30*20=600m^2$

Applicable legislation and guidelines used to compile the report	Reference where applied	Development's compliance with and response to the policy and legislative context
Specific Environmental Management Acts (SEMA's)		
National legislation		
National Environmental Management Act (NEMA), 1998	This Basic Assessment Report and Environmental Management Plan	An Application for Environmental Authorization was submitted to the Mpumalanga DMR and the application was acknowledged and accepted.
National Water Act (NWA), 1998	Groundwater abstraction as part of drilling activities	As per Government Notices Regulation 399, the applicant may abstract 75m ³ of groundwater per ha per annum from the B20A Quaternary Catchment. This use will be generally authorized. The proposed drilling method won't hamper with National Water Act (NWA), 1998.
Mineral and Petroleum Resources Development Act (MPRDA), 2002	Application for prospecting as per Section 16	The applicant submitted a Prospecting Right Application to the DMR.
Municipal plans		
Commission on Restitution of Land Rights	Land claims	One of the key issues identified by the Commission on Restitution of Land Rights is the need to facilitate the land claims process. The request for a Land Claim Letter was e-mailed to Themba Mkhonto on the 09 th of November 2019. Feedback was then received on the 12 th of December 2019 with the supporting letter states that there is a claimants lodged against the proposed project area, see Error! Reference source not found.
Strategic Development Framework (SDF)	Alternatives	As per the Victor Khanye's plan, various strategies and policies must be adopted to ensure effective spatial development. As per Section 5.1 of the SDF, the municipality must provide alternative means of support to the rural population to decrease dependence on the environment and subsistence agriculture. As such, the following policies have been 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 confidence in the region through crime reduction and infrastructure development. The municipality was consulted so that the prospecting activity won't hamper with municipality's development plans.
CARA (Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983)	Alternatives	The conservation of soil, water resources and vegetation is promoted. Management plans to eradicate weeds and invader plants must be established to benefit the integrity of indigenous life. The prospecting activity ensure that disturbance to the environment is minimal and rehabilitation of the disturbed land is done.

5. Need and desirability of the proposed activities.

(Motivate the need and desirability of the proposed development including the need and desirability of the activity in the context of the preferred location).

Mining in South Africa directly contributed to the establishment of the Johannesburg Stock Exchange in the late 19th century, and today it still accounts for a large portion of its market capitalization. From this, it is clear that mining in South Africa has shaped the country politically, culturally, and economically and that the South African mining sector has provided the critical mass for a number of industries that are either suppliers to the mining industry, or users of its products. These include, but are not limited to, energy, financial services, water and engineering services, and specialist seismic geological and metallurgical services. The proposed coal prospecting right will not only contribute directly to the South African economy but will also contribute to the development and growth of other industries supporting the mining sector. South Africa is now facing a serious challenge of load shedding, so more coal and enough power station can be a solution on this crises. Global warming also contributed a lot to a disaster that South Africa facing today, a heavy thunderstorm that damage our roads and other buildings. More gravel will be needed for repairing such damage caused by thunder storm on our roads.

The proposed prospecting right in search for coal and gravel resources that is prior to mining project, will contribute to favourable economic impacts on both a local, regional and national scale. This will result in numerous job creation and skills development opportunities and provide an economic injection in the region. If the project will not proceed; the additional economic activity, skills development and available jobs would not be created, and the coal reserves would remain unutilized. Mpumalanga province rich in coal and gravel resources, which provides major employment opportunities in the area.

6. Motivation for the overall preferred site, activities and technology alternative.

Geophysical surveys, and drilling are the only major methods used in exploring for deposits of this type and also for resource definition and evaluation. The technology to be used cannot be replaced by any other methods thus these are the preferred activities. There is no site or layout alternative as the property provides the ideal geological formation for the presence of the minerals applied for. The positioning of the boreholes is determined by the expected location of the mineral reserve. Remember only drilling process will be done for prospecting coal only, then gravel will be prospected by (Mapping method) which involves walking around the area to see if the gravel is available in such a way that it can be extracted or not.

There are no technology alternatives considered and the proposed site was identified as the preferred alternative due to the following reasons:

- The site offers the mineral sought after,
- close-by mining areas,
- Very little natural vegetation needs to be disturbed in order to establish the mining area as most of the area has agricultural activities.

- The mining area can be reached by an existing access roads from the gravel road that is constantly being maintained by farm owners.
- As maintenance and servicing of the equipment will be done at an off-site workshop the amount of hazardous waste to be produced at the site will be minimal and will mainly be as a result of accidental oil or diesel spillages.
- Contaminated soil will be removed to the depth of the spillage and contained in sealed bins until removed from site by a hazardous waste handling contractor to be disposed of at a registered hazardous waste handling site and more information will be discussed after the granting of the prospecting right.

7. Full description of the process followed to reach the proposed preferred alternatives within the site.

NB!! – This section is about the determination of the specific site layout and the location of infrastructure and activities on site, having taken into consideration the issues raised by interested and affected parties, and the consideration of alternatives to the initially proposed site layout.

Details of the development footprint alternatives have been considered. With reference to the site plan provided in **Error! Reference source not found.** and the location of the individual activities on site, provide details of the alternatives considered with respect to: The property on which or location where it is proposed to undertake the activities to the Farm Goedgedacht 228 IR, on portion of the remain extent portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22, was the only property alternative considered.

8. Details of the development footprint alternatives considered.

With reference to the site plan provided as **Error! Reference source not found.** and the location of the individual activities on site, provide details of the alternatives considered with respect to:

- a. the property on which or location where it is proposed to undertake the activity;
- b. the type of activity to be undertaken;
- c. the design or layout of the activity;
- d. the technology to be used in the activity;
- e. the operational aspects of the activity; and
- f. the option of not implementing the activity.

a) the property on which or location where it is proposed to undertake the activity

The property on which or location where it is proposed to undertake the activity it's on farm Goedgedacht 228 IR, on portion of the remain extent portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22. Property is used for farming and other activities such as poultry and settlement. The portions applied for are consist of different land owners which are already consulted and the area is more modified due to activities which are currently practiced in the farm. It is important to note that until such

time that the non-invasive activities have been completed the exact location of the drill sites cannot be confirmed. However, the following buffers will be applied to the final site selection:

- No drill site will be positioned within 50m of a structure
- No drill site will be positioned within 100m of a water course or wetland
- Where possible existing access roads will be utilised to access the drill sites.

b) the type of activity to be undertaken

The exploration records of all previous work in the area will be re-examined, and the following studies will be carried out:

- Literature review
- Detailed aerial photograph and satellite image interpretation
- Regional airborne geophysics with main emphasis on magnetic and gravity
- Regional soil geochemistry interpretation
- Geological mapping will also be carried out.

These records will need to be captured into a GIS format for geological modelling and exploration scheduling analysis. Should mineralisation be encountered then further drilling will be undertaken. A suitable level of feasibility study (technical and economic evaluation) will also be undertaken if the results of the phase justify it.

- A total of 15 drill holes are proposed for the site;
- It will be possible to drill 30-40m per day, covering about 1-3 days to drill one hole;
- All holes will be drilled by means of a percussion and diamond drill rig. The drilled holes will be co-ordinated by GPS and logged onto a modelling system. It will be mapped onto an ortho-photo (1:10 000) scale.
- The holes will be drilled to an average of 450m and broadness (diameter) may vary between 60 mm - 75.7 mm. This will allow establishment of the thickness of the overburden;
- Holes will not be drilled closer than 100m from any stream/river and not within 100m from a natural wetland. Identified heritage sites will be marked and avoided.
- Overburden will be recorded and the holes filled back simultaneously.
- Drilling will take place one hole at a time. The drill site will be cleared of obstructions and debris and then drilled. Rehabilitation will occur concurrently with drilling.

c) the design or layout of the activity

Since exploration is temporary in nature no permanent structures will be constructed, Negotiations and agreements will be made with the farm owners to use any existing infrastructure like access roads.

- Portable ablution facilities will be used.
- Activities will be limited to the drilling of 15 boreholes to be determined by the geological formations found during prospecting.
- It is planned to use one rig for all drill holes. Rehabilitation will be closely controlled and supervision will be focussed.
- No changes to the layout are considered but with the geophysical survey information, the holes can be orientated to match the shape of the good quality of resource.

d) the technology to be used in the activity

Geophysical surveys and drilling are the only major methods used in exploring for deposits of this type and also for resource definition and evaluation. The technology to be used cannot be replaced by any other methods thus these are the preferred activities. Geophysical surveys also provide an added advantage of being done quickly and so execution can commence early. The safety factor of utilising geophysical surveys is also apparent, as there is less time to keep people exposed to moving machinery.

e) the operational aspects of the activity

Due to the nature of the prospecting activities, no permanent services in terms of water supply, electricity, or sewerage facilities are required. The prospecting will commence with non-invasive prospecting for 6 – 8 months which will entail Multi-Spectral and Aerial Surveys providing digital raster data of the area of interest delineating the Paleo channel on a map. Thereafter a further literature survey will be conducted for 2 - 4 months, combining the results from phase 1 with interpreted geological report. Only then will the applicant commence with invasive prospecting with the drilling and sampling programme continuing for approximately 12 – 24 months, which will culminate in a report on the drill results. This will again be followed with further non-Invasive prospecting through GIS & analytical desktop studies for 6 – 12 months, producing Pre-Feasibility reports, resource statements and 3D mapping. Once this is complete a decision will be made whether further drilling or sampling is required in specific areas of interest, prior to finalising the Feasibility Report. The applicant shall ensure that the Environmental Management Plan is provided to the Project Manager and any other person or organisation who may work on the site.

f) the option of not implementing the activity

The option of not approving the activities will result in a significant loss to valuable information regarding the mineral status present on these properties. The proposed activities have very low significance since these are short term activities. The probability of occurrence of an impact was determined and most of these activities can be controlled and impacts can be reduced or avoided. The probability was also used basing on looking at other prospecting activities of similar nature. Generally prospecting activities have low impact on the environment and the negative impacts can be controlled and avoided or minimised therefore the layout does not require planned activities revision. Changes in plan will be discussed with the farmers and approvals will be signed. In addition to this, should economical reserves be present and the applicant does not have the opportunity to prospect, the opportunity to utilize the said reserves for future phases will be lost. Loss of potential employment opportunities and remain valuable minerals which will contribute more to the people from Mpumalanga and other provinces.

9. Details of the Public Participation Process Followed

Describe the process undertaken to consult interested and affected parties including public meetings and one on one consultation. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. (Information to be provided to affected parties must include sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land.

Regulatory Framework

This section of the report provides an overview of the tasks undertaken for the public participation process to date. The public participation process was undertaken in accordance to the requirements of the EIA Regulations, 2014 (as amended, 07 April 2017) particularly Chapter 6 of this Regulation. It provides a guideline on how public participation processes must be conducted, it further stipulates timeframes in which these processes must be conducted in accordance to.

➤ Landowner Identification and Notification

A Landowner was identified through a search conducted online (Windeed Search) that accesses the Title Deeds office database. Once the landowners was established consultation email together with a landowner notification letter, BID, maps and comment form attached, were drafted and couldn't be sent through an email to the landowner as contact details were not found, however all drafted paperwork were hand delivered to the farm premises on the 19th of November 2019 and some are shared through email.

Farm List

Date Requested 2019/11/07 10:15
Deeds Office MPUMALANGA
Registration Division IR
Farm Name GOEDGEDACHT
Farm Number 228
Remaining Extent NOT SELECTED

PORTION LIST				
Portion	Owner	Title Deed	Registration Date	Purchase Price (R)
0	EHLERSKROON CC	T14705/1985	1985/04/29	R450000.00
2	*** NO LONGER EXISTS - SEE ENDORSEMENTS ***		-	
4	FARM GOEDGEDACHT 228 PTY LTD	T86947/1996	1996/09/16	R2250000.00
5	EHLERSKROON CC	T14705/1985	1985/04/29	R450000.00
6	MITCHELL JOHN HENRY	T96892/1999	1999/08/25	R156700.00
7	ORAMBAMBA 14 PTY LTD	T2630/2011	2011/03/17	R0.00
8	GOEDGEDACHT BRAAIKUIKENS PTY LTD	T12751/2008	2008/08/14	R300000.00
9	EXXARO COAL PTY LTD	T9659/2002	2002/01/30	R858777368.20
10	CAMARA MARIA LURDES NUNES	T28194/1988	1988/05/09	R0.00
12	*** NO LONGER EXISTS - SEE ENDORSEMENTS ***		-	
13	VICTORY TRUST	T4047/2013	2013/04/30	R1200000.00
14	GRO AFRICA PROP PTY LTD	T10175/2013	2013/09/30	R59000000.00
15	*** NO LONGER EXISTS - SEE ENDORSEMENTS ***		-	
16	CAMARA MANUEL GORGE	T37593/2004	2004/03/26	R75000.00
17	GRO AFRICA PROP PTY LTD	T10175/2013	2013/09/30	R59000000.00
18	*** NO LONGER EXISTS - SEE ENDORSEMENTS ***		-	
19	TRANSNET LTD	T83473/1994	1994/10/20	R0.00
20	TRANSNET LTD	T68758/1994	1994/09/01	R0.00
21	TRANSNET LTD	T39695/1994	1994/06/07	R0.00
22	TRANSNET LTD	T70590/1994	1994/09/08	R0.00
23	TRANSNET LTD	T19016/1996	1996/03/08	R0.00
26	GRO AFRICA PROP PTY LTD	T10175/2013	2013/09/30	R59000000.00
27	EXXARO COAL PTY LTD	T12276/2011	2011/11/28	R50000.00
29	GRO AFRICA PROP PTY LTD	T10176/2013	2013/09/30	R21000000.00
30	GRO AFRICA PROP PTY LTD	T10175/2013	2013/09/30	R59000000.00
34	GRO AFRICA PROP PTY LTD	T10175/2013	2013/09/30	R59000000.00
35	GRO AFRICA PROP PTY LTD	T10175/2013	2013/09/30	R59000000.00
36	TURQUOISE MOON TRADING 521 PTY LTD	T11478/2017	2017/09/15	R5195000.00

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This report contains information gathered from our suppliers and we do not make any representations about the accuracy of the data displayed nor do we accept responsibility for inaccurate data. WinDeed will not be liable for any damage caused by reliance on this report. This report is subject to the terms and conditions of the [WinDeed End User Licence Agreement \(EULA\)](#).

Figure 5: Windeed Search

Notification of Stakeholders (incl. Interested & Affected Parties)

➤ Notification of Stakeholders

- ✓ Personnel representing Government departments and Non-governmental organizations were consulted using Background Information Document (BID), Consultation letters, and in some instances, consultations were conducted telephonically. The following departments and organization formed part of the consultation process;
 - Department of Agriculture, Forestry and Fisheries
 - Department of Rural Development and Land Reform
 - Department of Water and Sanitation

- Department of Environmental Affairs
- Department of Tourism
- Transnet
- Eskom
- Victor khanye Local Municipality
- Sanral

➤ **Notification of I&AP**

These I&APs details were collected using information in the public domain. Using this information these identified I&APs were contacted via email, telephonically and through posted letters with a description of the prospecting operation and a way to contact for further information and how to be part of the process.

➤ **Newspaper advertisement**

A newspaper notice was placed in the legal section of *Streek Nuus/News Delmas and Streek Nuus/News Bronkhorspruit* on the 15 of November 2019 about the prospecting right application (see proof of placement below). Notices about the application were placed around the site of the prospecting right application area inviting interested persons to register as I&APs. See Figure 6 and Figure 7 below.

Laerskool Sundra bekroon nuwe leerlingraad

Laerskool Sundra het op Donderdag, 31 Oktober hul nuwe leerlingraad vir 2020 bekend gestel. Die nuwe Hoofleiers, leier, padpatrollie leiers en padpatrollie lede neem met trots die pligte oor.

Padpatrollie lede:
Christo Booysen, Lwandle Hlabisa, Leane Brits, Christiaan Erasmus, Minenhle Mabena, Exibity Magabane, Lee Meyer, Mandisa Maseko, Unqobile Mgidi, Kyle Snyman, Noma Mqwathi, Nicole Swartz, Sfundo Mapha, Mia van Dyk, Tipi Sikosana, Carla Venter, Ashleigh Vogel, Lea-Mari Zietsman, Qwami Marimbela, Kiara Thompson, Genus Botserere, Tanya Bekker, Vicky-Lee Bekker, Hazel Diza, Nikita Bezuidenhout en Siphehile Gama.

Padpatrollie leiers:
Zanele Baholo, Christian Delpont, Owethu Kubheka, Lebo Maseema, Thandeka Mashini, Albert Masire, Kanyisile Pungani, Miebogeng Sibanyoni, Sihle Sibeko en Tracy Roos.

Leiers:
Hope Alem, Ricardo Abreu, Jacqui Bosman, Nigei Dube, Taura Dube, Karla Erasmus, Cindy Luies, Teagan Habig, Neels van der Walt, Nompilo Mahlangu, Maria Mokoena, Bridgette Ngoma, Thembakazi Nkosi, Roelien van der Walt, Sihle Segogela, Tiaan Vermaak, Charlotte Willems, Zandile Twala, Nolwandle Vilikaz, Grven Ntuli, Ndrihuwo Mathabi, Annetta Mbonani, Stephan Killian

Hoofleiers:
Hope Alem, Neels van der Walt, Ricardo Abreu, Roelien vander Walt, Lethudukosi Nkosi, Teagan Habig, Brigette Ngoma en Cindy Luies.



Hoofleiers vir 2020.




Padpatrollie leiers vir 2020.



Leiers vir 2020.



Padpatrollie lede vir 2020.



One organ donor can Save Seven Lives and improve the quality of up to 50 more people by donating tissue.

Visit www.odf.org.za for more info

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT FOR MATHAPULA MINING (PTY) LTD.

PUBLIC PARTICIPATION FOR A PROSPECTING RIGHT APPLICATION

Notice is hereby given in terms of the regulations published in government Notice R 327 published on (December 2014), of the National Environmental Management Act 107 of 1998 (NEMA) of the intent to carry out activities as listed in Notice 1.

ACTIVITY: 20 of Listing Notice 1

PROJECT PROPOSAL: Mathapula Mining (Pty) Ltd reference number MP 30/5/1/3/2 15504 intends to undertake (Environmental Impact Assessment and EMP) in order to obtain prospecting right of coal.

LOCATION: The project area is located on the portion 11 of the farm Brakfontein 310 IR, Situated in the Magisterial district of Delmas.

Department of Minerals Resources Reference Numbers MP 30/5/1/3/2/ 15504

Queries regarding this should be forwarded to: Mr Willem Van Rooyen

Contact Details: 082 611 7539

Email: sontsele6@gmail.com

NOTICE OF PUBLIC PARTICIPATION FOR PROSPECTING RIGHT AND ENVIRONMENTAL AUTHORIZATION APPLICATION


Notice of the Prospecting Right Application Process as per the Minerals and Petroleum Resources Development Act (Act 28 of 2002) with the **DMR Ref MP 30/5/1/2/15613 PR**, for **Gadebe Investments CC**.

Application for Prospecting Right: Gadebe Investments CC has applied for a Prospecting Right together with Environmental Authorization for Coal and Gravel Resources, on **Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR**. Situated under Magisterial District of Delmas, Mpumalanga Province.

Registration as Interested & Affected Party: In terms of Regulations: 42 & 43 of the EIA Regulations published in Government Notice No. 326 of 07 April 2017, the public is invited to register as interested and affected parties (I&APs); express interest, comment and participate in the Public Participation Process (PPP) respectively within 30-calendar days of publishing of this notice, until the **14th of December 2019**.

DBAR & EMPR Review: The draft EMPR reports will be available for review for a 30 days calendar period from Tuesday, the **07th of January 2020 to Wednesday the 05th of February 2020**. The report will be available at Delmas Local Library (31 Sarel Gilliers Street) and on request, via Email from the respective EAP.

ENVIRONMENTAL ASSESSMENT PRACTITIONER


Singo Consulting (Pty) Ltd

Office No. 16, First Floor, Corridor Hill Crossing, 09 Langa Crescent, Corridor Hill, eMalahlani, 1035.
Tell No.: +27 13 6920 041 Fax No.: +27 86 5144 103

FOR MORE INFORMATION PLEASE CONTACT

EAP Livhuwani Sigwadi 013 692 0041 / 076 652 9062 livhuwani@singoconsulting.co.za	Applicant MR M. Masipa 0814128530 dihloma@gmail.com
---	---

Figure 6: Newspaper placement on Streek Nuus/News Delmas



Willie Schoombee, Elizabeth Kendal(wenner van die dames snior enkel trofee) met Santie Dalgeish (die wenner van die dames senior enkels trofee) en Manie Engelbrecht.

Bronkies-klub hou die balle aan die rol

Bronkhorstspuit rolbalklub hou jaarliks 'n prysuitdeling om almal wat individueel of in spanne gewen het herkenning te gee.

Daar is 40 klublede en minstens 30 neem deel in kompetisies tot 'n

wenner finaal bepaal word uit 13 kategorieë.

"Die klub is hierdie jaar 40 jaar oud en ons hoop om nog jare lank te bestaan," sê organiseerder Manie Engelbrecht.

Elizabeth Kendal en Santie Dalgeish (wenner van die dames enkels trofee).

Einde van die maand, op 29 of 30 November, is daar weer 'n groot toernooi wat sal plaasvind. "Ons nooi ons inwoners uit om te kom kyk en dit saam ons te kom geniet," sê Manie.



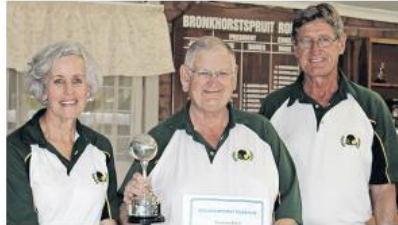
Estelle Le Roux en Santie Dalgeish (wenners van die gekose pare trofee).



Len en Daphne Simpson(wenners van die gelote pare trofee).



Elizabeth Kendal en Babs Janse van Rensburg(wenner van dames enkels trofee).



Elizabeth Kendal, Christie Le Roux met die presidents beker en Manie Engelbrecht.



Manie Engelbrecht en Johan Le Roux(wenner van die mans enkels trofee).



Mostert brothers on top at championships

The Mostert brothers recently competed in the Kalahari Rally, which is an international event held in the Mafikeng and Van Zyl's Rus area. The rally took place over seven days and covered just over 3500 km of harsh Kalahari desert-type terrain. The event was held for local and international competitors with Dakar Aspirations, that wanted to sharpen up on their navigational skills in preparation for Dakar 2020. Most of the competitors had done some international and Dakar events before. For the Mostert brothers, this was quite the challenge, as they had not

competed in this type of event before. "After the first day we got lost and had to find our way as the navigation was very difficult, as the week progressed we got more used to the navigation and things got a bit better," the brothers told Streeknuus. "We managed to finish the event without any major problems and managed a second place in our class." Subsequent to this event, the Mostert Brothers were crowned the SxS champions for 2019 in the SACCs National Cross Country Series and finished with a 100 percent finishing rate for the year.



NOTICE OF PUBLIC PARTICIPATION FOR PROSPECTING RIGHT AND ENVIRONMENTAL AUTHORIZATION APPLICATION

Notice of the Prospecting Right Application Process as per the Minerals and Petroleum Resources Development Act (Act 28 of 2002) with the **DMR Ref MP 30/5/1/12/15613 PR**, for **Gadebe Investments CC**.

Application for Prospecting Right: Gadebe Investments CC has applied for a Prospecting Right together with Environmental Authorization for **Coal and Gravel Resources**, on **Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR**. Situated under Magisterial District of Delmas, Mpumalanga Province.

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Toll No.: +27 13 6920 041 Fax No.: +27 86 5144 103

FOR MORE INFORMATION PLEASE CONTACT

EAP
Livhuwani Sigwadi
013 692 0041 / 076 652 9062
livhuwani@singoconsulting.co.za

Applicant
MR M Masipa
0814128530
dihloma@gmail.com



One organ donor can Save Seven Lives and improve the quality of up to 50 more people by donating tissue. Visit www.odf.org.za for more info

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT FOR MATHAPULA MINING (PTY) LTD. PUBLIC PARTICIPATION FOR A PROSPECTING RIGHT APPLICATION

Notice is hereby given in terms of the regulations published in government Notice R 327 published on (December 2014), of the National Environmental Management Act 107 of 1998 (NEMA) of the intent to carry out activities as listed in Notice 1.

ACTIVITY: 20 of Listing Notice 1

PROJECT PROPOSAL: Mathapula Mining (Pty) Ltd reference number MP 30/5/1/3/2 15504 intends to undertake (Environmental Impact Assessment and EMP) in order to obtain prospecting right of coal.

LOCATION: The project area is located on the portion 11 of the farm Brakfontein 310 IR, Situated in the Magisterial district of Delmas.

Department of Minerals Resources Reference Numbers MP 30/5/1/3/2/ 15504

Queries regarding this should be forwarded to: Mr Willem Van Rooyen

Contact Details: 082 611 7539

Email: sontsele6@gmail.com

Figure 7: Newspaper placement on Streek Nuus/News Bronkhorstspuit

➤ **Site notice placement**

To inform surrounding communities and adjacent landowners of the proposed development, site notices were erected on site and at visible locations around the site on the 19th of November 2019. The site notices also clearly stipulated where and how the DBAR and EMPr can be accessed. See **Error! Reference source not found.** for more site notices placed around the farm boundaries.

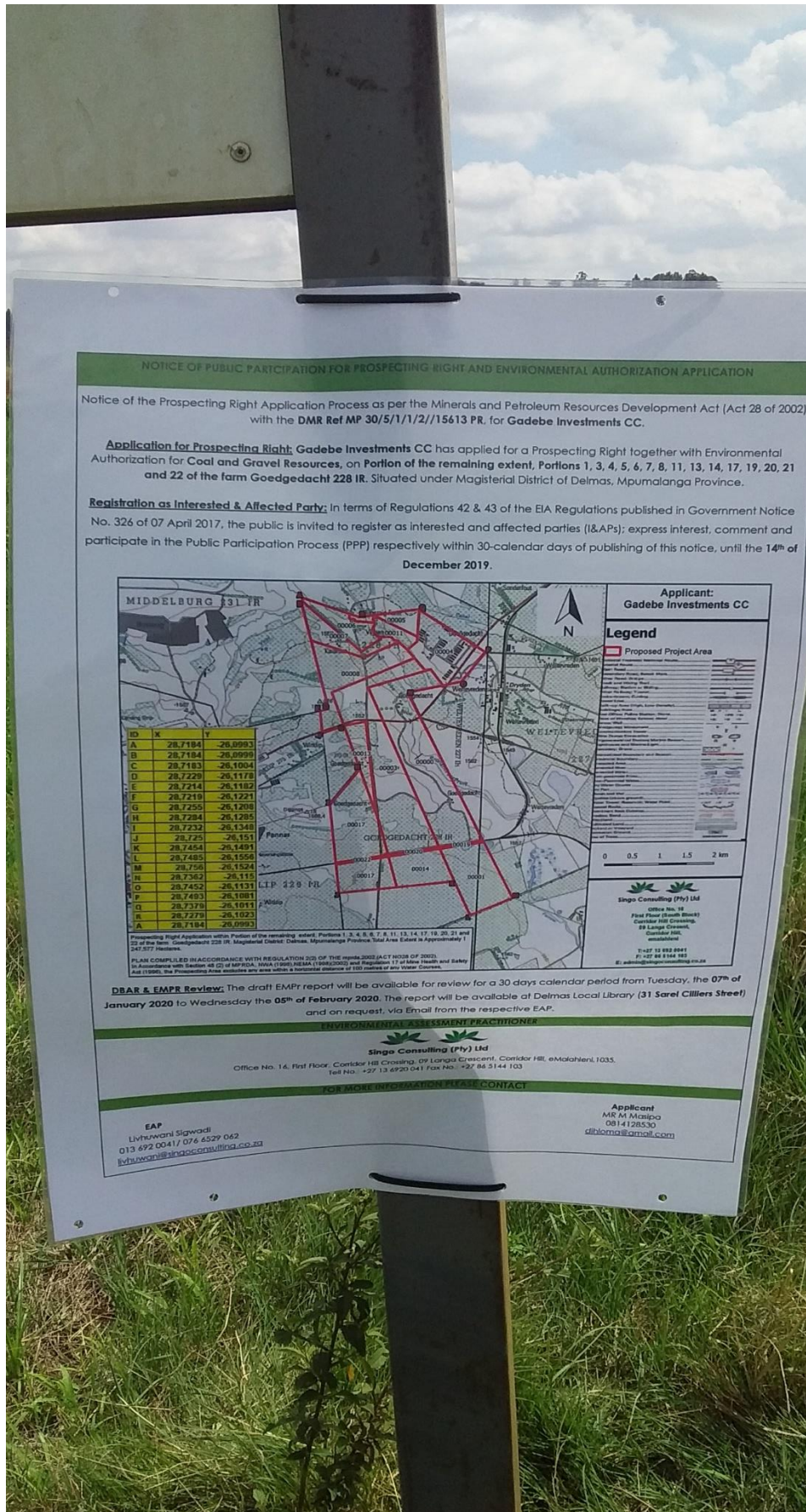






Figure 8: Site notice which was placed during site assessment

➤ **Draft BAR Submission**

Draft EMPr were submitted to the affected and interested stakeholders on the 17th of January 2020, one copy of the draft report also submitted to Delmas local library. Landowners were also received Draft BAR through their emails and through a hand delivery by the EAP. See a proof of submission on **Error! Reference source not found.** of this report.

F. I. Lobbery Cell: 082 524 8333	X	26/11/2019	Issue raised: <ul style="list-style-type: none"> ✓ Exxaro sold this land because there is no coal ✓ I use this land for farming (cultivation and stock farming) 	Noted, our client wants to prove himself by drilling, mapping and analysed the drilling cores. Prospecting right application will not be going to replace a current land use.	See appendix D.
Adjacent Land owner					
	X		.		See Error! Reference source not found. for full consultation.
Organs of state (Responsible for infrastructure that may be affected Roads Department, Eskom, Telkom, DWA, etc.)					
Eskom Email: wayleavesmou@eskom.co.za	X		No issue raised	On the 19 th of November 2019 consultation email was sent and no response received	See appendix E
Department of Agriculture Forestry and Fisheries(DAFF)					
Rhulani Chavalala Email: RhulaniC@daff.gov.za Tell: 013 754 0729 Cell: 078 608 3909 Ms. Elly Thulari Department of Agriculture, Forestry and Fisheries	X		No issue raised	On the 20 th Of January 2020 the draft basic assessment report was sent to the department and no response received	See appendix G

Land Use and Soil Management 27 Brown Street, 2nd Floor, Office B1 Box 8806, Nelspruit 1200 Telephone : 013 754 0701 Security Desk : 013 754 0740 (Reception) Fax : 013 754 0735 E-mail : EllyT@daff.gov.za					
Department of Water and Sanitation					
Pieter Ackerman (PrLArch) Chief Landscape Architect Department of Water and Sanitation (DWS), South Africa Sub Directorate Instream Water Use Tel: 012 336 8217 Cell: 082 807 3512 Fax: 012 336 6608	X	19/11/ 2019 15/01/2020	Scientific buffers must be included from the start to protect watercourses from drilling and mining. Overlay the wetland buffers and drilling on the map please.	A hydrological buffer map has been created and sent to Peter Ackerman for comment. Thanks, all wetlands will be protected	See appendix F
Department of Environmental Affairs					
T Ramavhona TRamavhona@environment.gov.za	X		No issue raised	On the 19 th of November 2019 a consultation email was sent to the department and no response received	See appendix E
Department of Rural Development and Land Reform					
Office of the Regional Land Claims Commissioner, Mpumalanga Province Mr Themba Mkhonto Email: Themba.Mkhonto@drdlr.gov.za Cell: 013 655 1000	X	11 December 2019	There is a registered land claim which was lodged against to the proposed property. If anything, relating to this enquiry Contact Mr Medupi Ledwaba as the project manager	Mr Ledwaba was contacted via telephonically and he was out of the office and he said he will come back to me when he is in the office	See appendix F
Municipality					
Busisiwe M Email: busisiwem@vklm.gov.za	X			On the 17 th of January the draft basic assessment report was sent to Victor	See appendix G

				Khanye Local Municipality and no response received	
Ward and Tribal Councillors	X				
Mpumalanga Tourism and Parks					
Thanduxolo.lunanga Email: thanduxolo.lunanga@mtpa.co.za Phuma.nkosi Email: phuma.nkosi@mtpa.co.za Frans.Krige Email: Frans.Krige@mtpa.co.za	X		No issue raised	A draft basic assessment report was submitted on the 20 th of January 2020 and no response received	See appendix G
SANRAL					
Jan Oliver (BSc Hons Applied Science Transportation Eng, Bsc Computing Unisa) Statutory Controller Northern Region 38 Ida Street, Menlo Park, Pretoria, Gauteng, 0081, T: 012 426 6242 M: 083 283 6083 OliverJ@nra.co.za www.sanral.co.za Fraud Hotline Number - 0800 204 558     Ria Barkhuizen (NR)	X	28 January 2020	No national roads will be affected by the Prospecting Right Application. SANRAL therefore have no comments nor objection to the approval of the application by the Department of Minerals and Resources	Noted your comment are more appreciated	See appendix F

Email: Barkhuizen@nra.co.za					
SAHRA					
Online Consultation	X				See Appendix C for full consultation.
Other Affected and Interested Parties					
	X				See Appendix D for full consultation.

b. The Environmental attributes associated with the alternatives.(The environmental attributed described must include socio-economic, social, heritage, cultural, geographical, physical and biological aspects)

a) Baseline Environment

(i) Type of environment affected by the proposed activity.

(its current geographical, physical, biological, socio- economic, and cultural character).

Topography

The prospecting area is situated within a region with generally flat to gently undulating topography, which is typical of the Mpumalanga region.

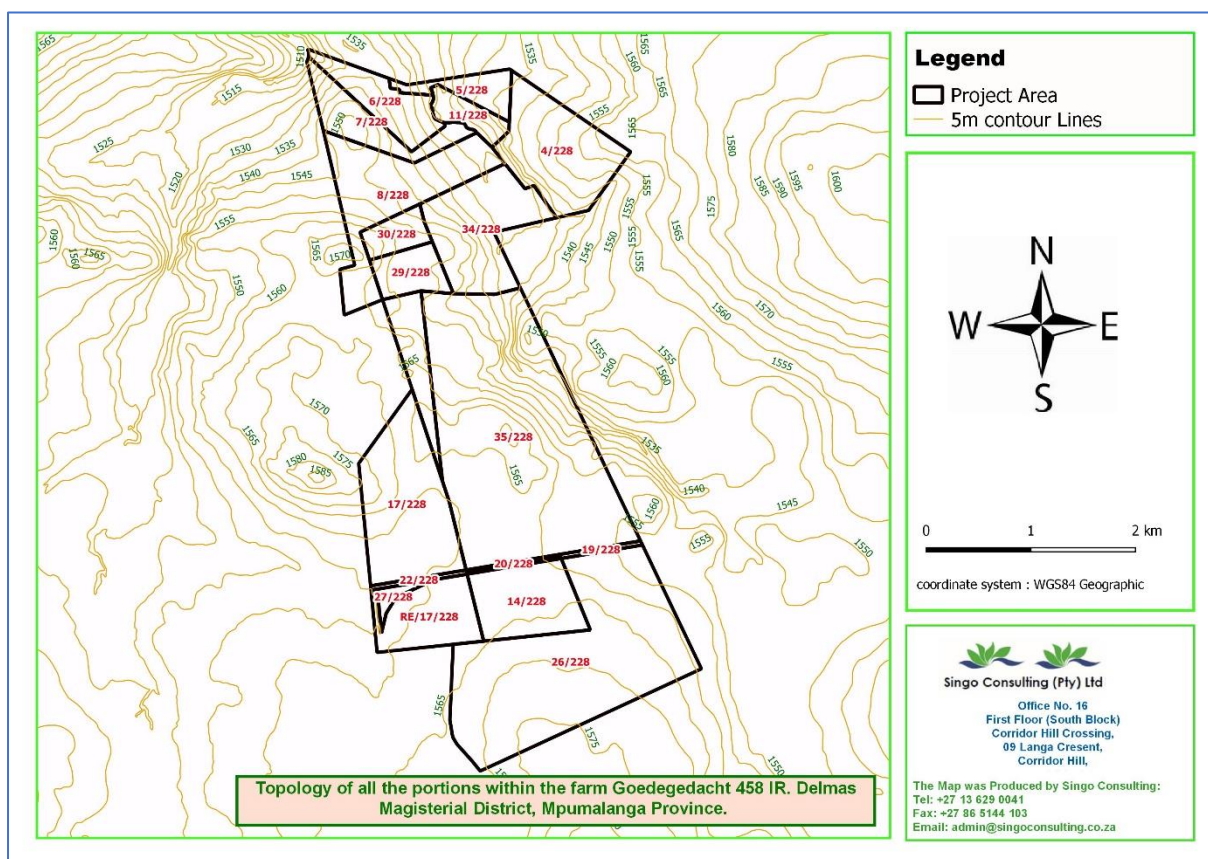


Figure 9: Topography of the area.

There area of flat in this proposed project will be preferred so that a planned boreholes will be placed on the flat area to avoid maximum impacts on the environment. No current activities will be abandoned in the proposed farm.

Regional Climate

Project areas occur within the area with typical Highveld conditions. The summers are moderate and wet while the winters are harsh, cold and dry. Minimum long-term temperatures have been recorded from -1.80C to 13.70C with maximum temperatures ranging between 18.40C and 27.10C. Average daily temperatures are in the middle 20C range in summer (October to March) and are lower than 15C (April to September). Winter minima fall below 0C in June, July and August. The average total annual rainfall is ~735mm with the rain falling mostly in the summer months (October to April). Peak rainfall occurs in January.

Wind roses comprise 16 spokes, which represent the directions from which wind blows during a specific period. The colours used in the wind roses depicted in Figure 10: Wind characteristics of the permit areas., reflect the wind speed categories. The dotted circles provide information regarding the frequency of wind speed occurrence and direction categories. The prevailing wind directions are from the north-east and north, with frequencies of up to 10% and strong wind speeds of up to 15m/s. During day-time the predominant winds are from the north-westerly sector. Night-time conditions are characterized by winds from the north-easterly and south-easterly sectors.

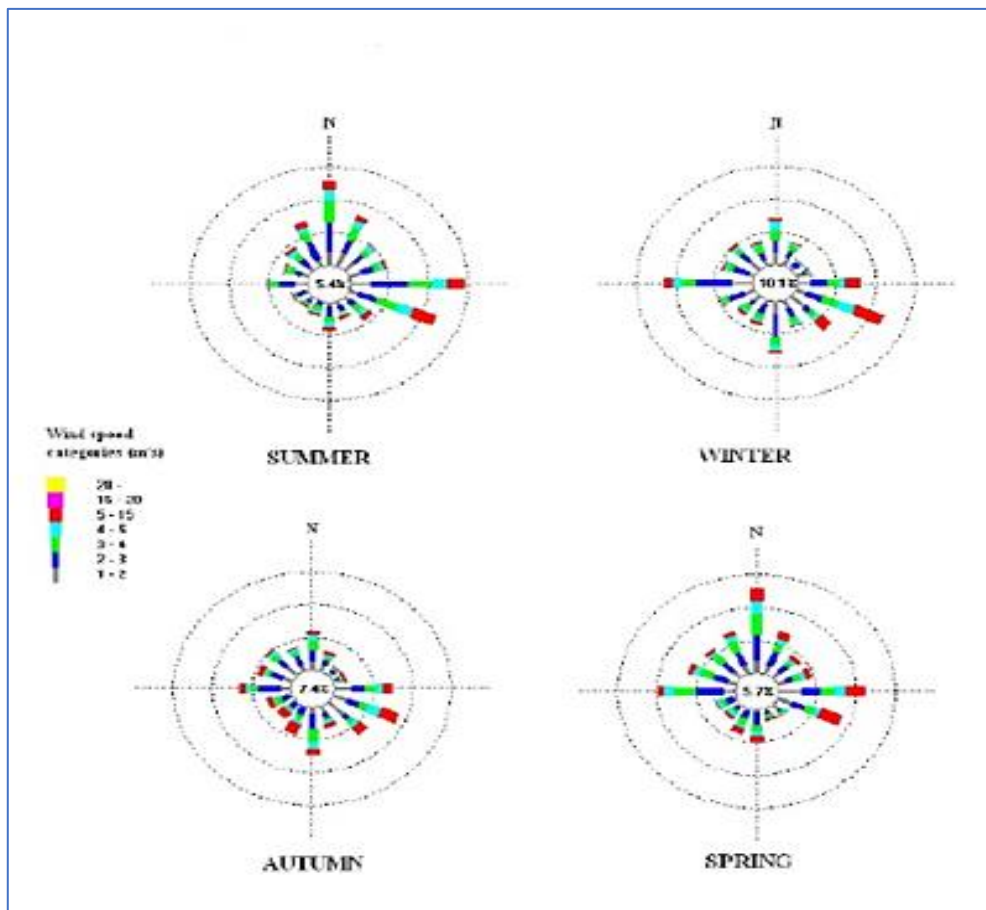


Figure 10: Wind characteristics of the permit areas.

Air Quality

The assessment of the ambient air quality is based on available ambient air quality information identified in the literature review and data supplies by the Department of Environmental Affairs (DEA) and the South African Weather Service (SAWS).

Regional Ambient Air Quality

Mpumalanga experiences a wide range of both natural and anthropogenic sources of air pollution ranging from veld fires to industrial processes, agriculture, mining activities, power generation, paper and pulp processing, vehicle use and domestic use of fossil fuels. Different pollutants are associated with each of the above activities, ranging from volatile organic compounds and heavy metals to dusts and odours.

The Permit area are in the Mpumalanga Highveld Priority Area which has been declared by the Minister of Environment and Tourism in terms of section 18 (1) and 57 (1) of the National Environmental Management: Air Quality Act, No. 39 of 2004. The permit area is situated near coal mines (e.g. Canyon Coal Mine), resulting in a significant negative impact on air quality in the area that requires specific air quality management actions to rectify the situation.

Ambient air quality in Mpumalanga is strongly influenced by regional atmospheric movements, together with local climatic and meteorological conditions. The most important of these atmospheric movement routes are the direct transport towards the Indian Ocean and the recirculation over the sub-continent (Scholes, 2002). It is these climatic conditions and circulation movements that are responsible for the distribution and dispersion of air pollutants within Mpumalanga and between neighbouring provinces and countries bordering South Africa.

Mpumalanga experiences distinct weather patterns in summer and winter that affect the dispersal of pollutants in the atmosphere. In summer, unstable atmospheric conditions result in mixing of the atmosphere and rapid dispersion of pollutants. Summer rainfall also aids in removing pollutants through wet deposition. In contrast, winter is characterized by atmospheric stability caused by a persistent high-pressure system over South Africa. This dominant high-pressure system results in subsidence, causing clear skies and a pronounced temperature inversion over the Highveld. This inversion layer traps the pollutants in the lower atmosphere, which results in reduced dispersion and a poorer ambient air quality. Preston-Whyte and Tyson (1988) describe the atmospheric conditions in the winter months as highly unfavourable for the dispersion of atmospheric pollutants.

Plumes emitted at night from stacks during stable conditions can be transported up to thousands of kilometers downwind of the source before reaching ground level in a well diluted state. During day-time however, strong convection currents transport plumes upward and downward whilst drifting downwind (Mpumalanga State of Environment report, 2003).

Pollutants thus reach ground level close to the point source of emission and are well diluted due to convective mixing (Turner, 2001). Emissions at low levels (such as from mine residue deposits, households or vehicles) do not disperse much at night because of the atmospheric stability, resulting in high concentrations of pollutants at ground level despite the relatively low emissions quantities. During the day, these low-level emissions are readily mixed into the convective layer close to the earth's surface (Turner, 2001), which results in lower concentrations of pollutants at ground level and better air quality.

Noise

The project area is surrounded by crop and livestock farming, poultry activities and AFGRI Dryden Silo. The farm boundary covers the farm houses, rivers and pans/ wetlands inclusive within its boundaries. The farm area can be accessed through a tar road R555 from N12 and from Witbank town. The tractors operating on crop farms, traffic on the R555 and N12, and the trucks transporting minerals and machinery on operating site of neighbouring mine are a primary source of noise in the area hence ambient noise levels has already been impacted. In the proposed prospecting right area, noise will be generally from machinery operating on site which will not last for more than 5 days per week.

Geology

Regional Geology

The regional geology of the project areas consists of various groups within the Karoo Supergroup as well as numerous dolerite intrusions. The Eccca Group occurs extensively with the region and of the 16 formations, one, the Vryheid Formation, dominates the immediate study area. The Vryheid Formation comprises shale and sandstone elements interspersed with coal beds. These were laid down in a number of different cycles of deltaic and fluvial processes. Locally, sandstones and siltstones of the Vryheid Formation are encountered. These rock types weather to fine grained sands, silts and clays.

The Farm Goedgezicht 228 IR is situated within Springs-Witbank Coalfield. The sediments of the coalfield were deposited on an undulating pre-Karoo floor and consequently the distribution and thickness of the Karoo Sequence sediments vary significantly. The sediments of the Karoo basin were deposited in fluvial floodplains and shallow shelves over a period of more than one hundred million years extending from the late Carboniferous (290million years ago) to the early Jurassic (190millin years ago).

General Geology

The project area is situated within the Witbank Coalfield. The northern boundary is a very irregular sub-crop against the pre-Karoo basement rocks of predominantly Waterberg sandstones with the most northerly limit about 15 km NW of Witbank, with many "inlets" to the east and west. The south boundary is a prominent pre-Karoo felsite contact called the Smithfield ridge.

The basin is a multiple seam deposit type with the development of five major seam horizons which may in places be composite seams. The major controls for the development of the coal are proximity to undulations of the "basement" topography, through erosion channeling and sediment influx into swamp beds and finally erosion of the current erosion surface. The primary economic coal seams have been the No. 2 Seam and No. 4 Lower Seam and, in places, the No. 5 Seam.

Structurally, the coal horizons are un-deformed with each displaying a very slight dip to the south east of less than a degree and minor discrete faulting events that have a south west to north east trend of graben features and other minor faulting events. The most distinctive post-depositional feature is the intrusion of dolerites related to the Lesotho Basalts that have resulted in a variety of sills and dykes of various ages.

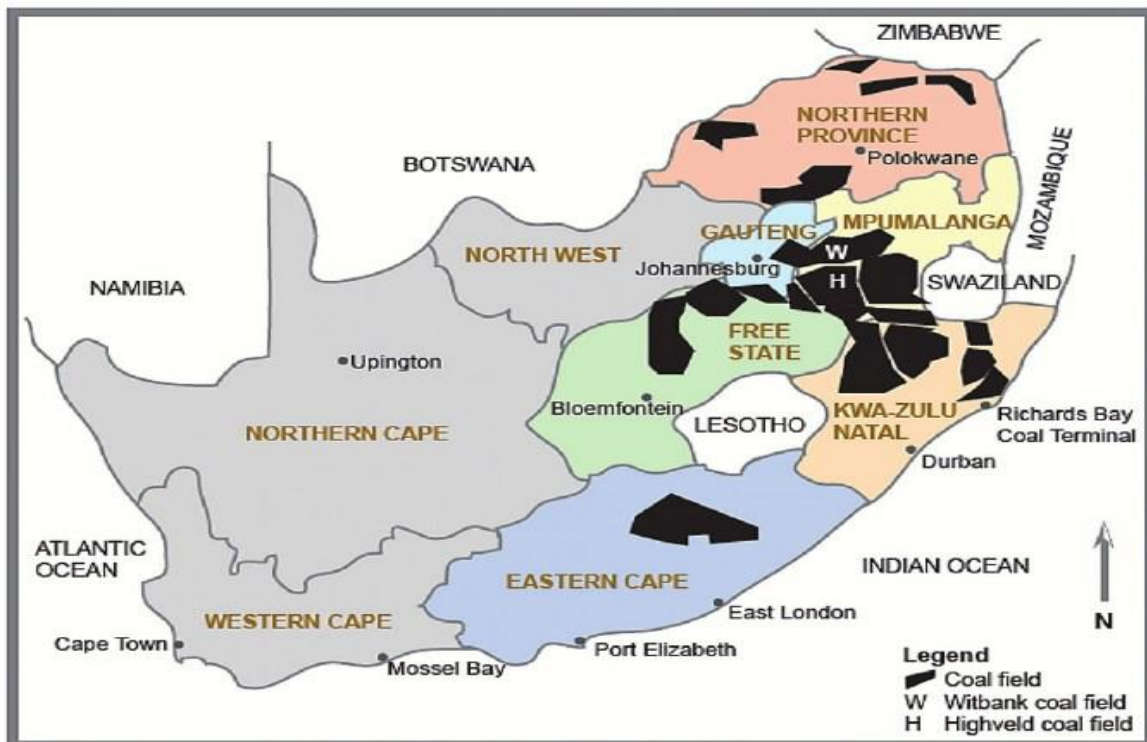


Figure 11: Depiction of the Witbank coalfield (represented by W).

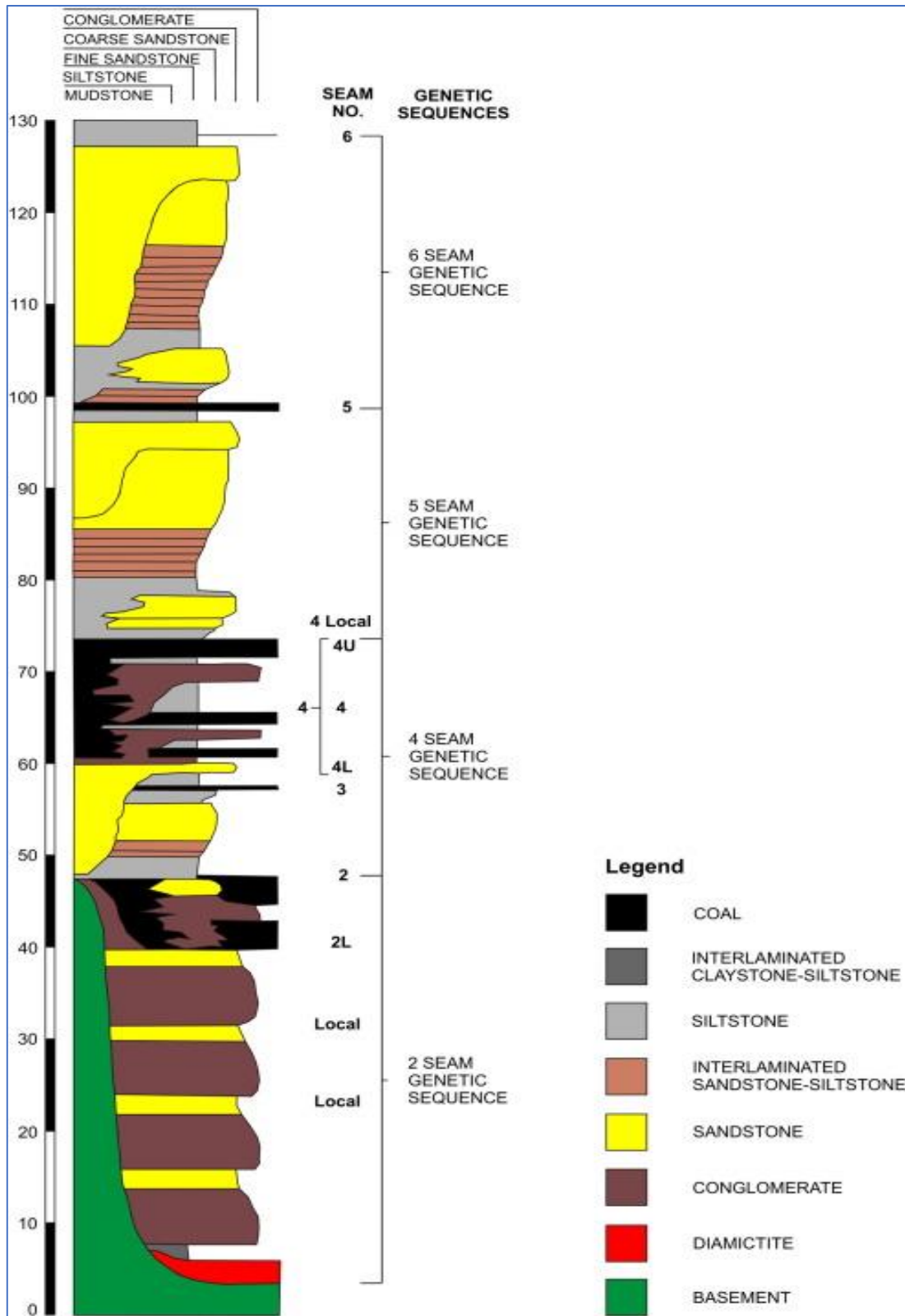


Figure 12: The stratigraphic column of the Witbank coalfield.

Local Geology

The project area is underlain by geology consisting of sandstone of the Vryheid Formation and the Ecca Group of the Karoo Dolerite, Klapperkop quartzite which contains gravel and bands of coal within the sedimentary layers.

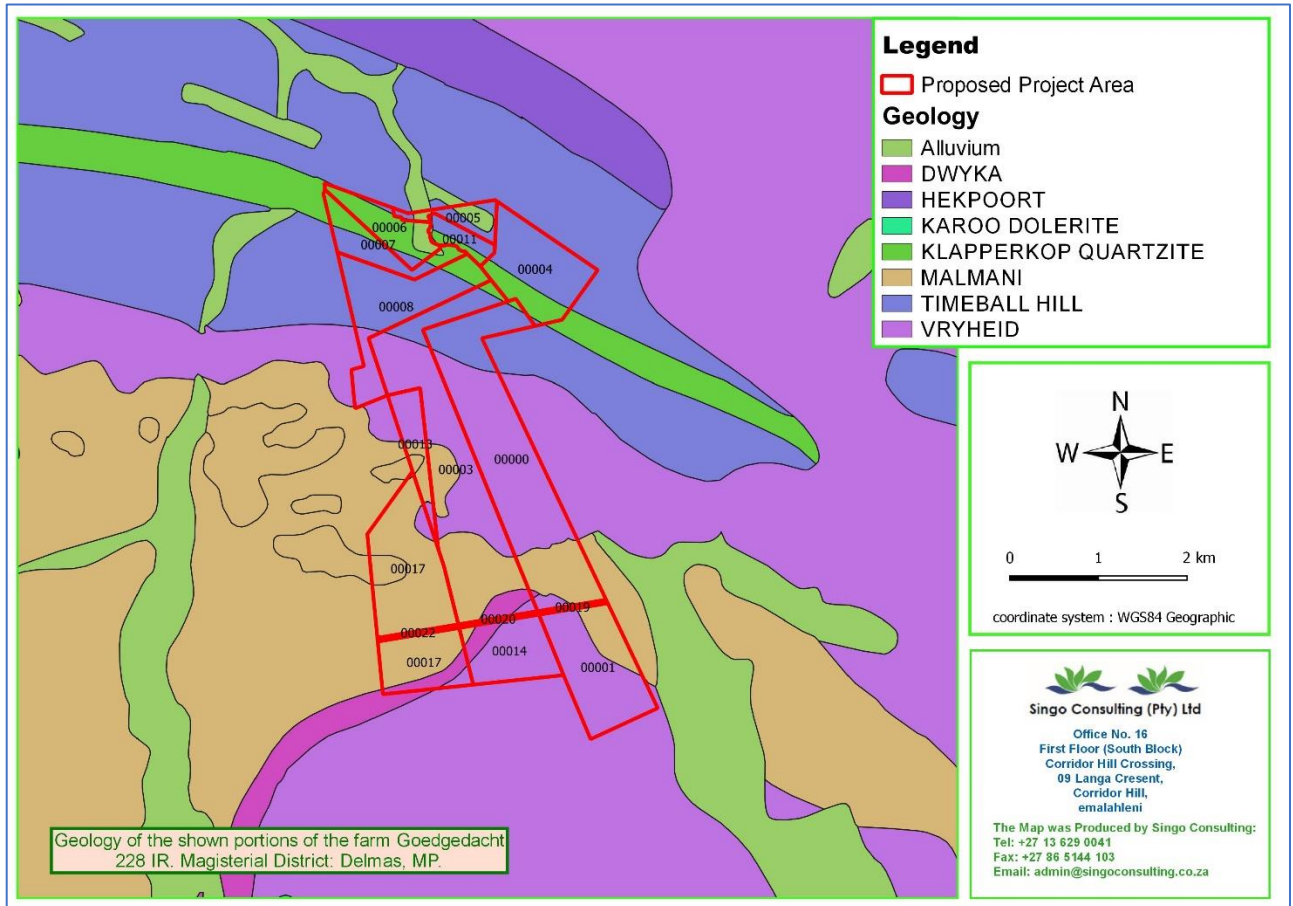


Figure 13: The local Geology of the area.



Figure 14: picture of outcrop rock identified during site assessment

Figure 14 above shows the type of rock which have been found during site assessment, these type of rock encourage the geologist to confirm that, the applied farm has a potential to produce gravel. Identified rock classified as Karoo Dolerite as mentioned on the map from **Figure 13** above as well.

Soil Study

These soils have a structure that is weaker than moderate blocky or prismatic in the moist state, if structure is borderline, CEC (NH₄OAc, pH7) per kg soil is less than 11cmol (+)/kg soil. These soils are non-calcareous in any part of the horizon which occurs within 1500mm of the soil surface but may contain infrequent, discrete, relict lime nodules in a non-calcareous soil matrix. It does not have alluvial or aeolian stratifications.

The B horizons that have more or less uniform colours, falling within the range defined as red and that in the moist state, lack well-formed peds other than porous micro-aggregates, qualify as red apedal. The concept of these macroscopically weakly structured or structureless materials embraces that kind of weathering that takes place in a well-drained oxidizing environment to produce coatings of iron oxides on individual soil particles (hence the diagnostic red colours) and clay minerals dominated by non-swelling 1:1 type.

This horizon does not have grey colours in the dry state as defined for the E horizon. Although colour must be substantially uniform, some variability is permitted, for example mottles or concretions which are insufficient to qualify the horizon as a diagnostic plinthic B, faunal reworking may also result in acceptable colour variegations. It is non-calcareous within any part of the horizon which occurs within 1500mm of the surface but may contain infrequent, discrete, relict lime nodules in a non-calcareous soil matrix. Does not have alluvial or aeolian stratifications., directly underlies a diagnostic topsoil horizon or an E horizon.

Yellow-brown apedal B horizons occur over approximately the same climatic spread as their red counterparts and so are also very widely distributed throughout the country. They may be found on all types of parent material.

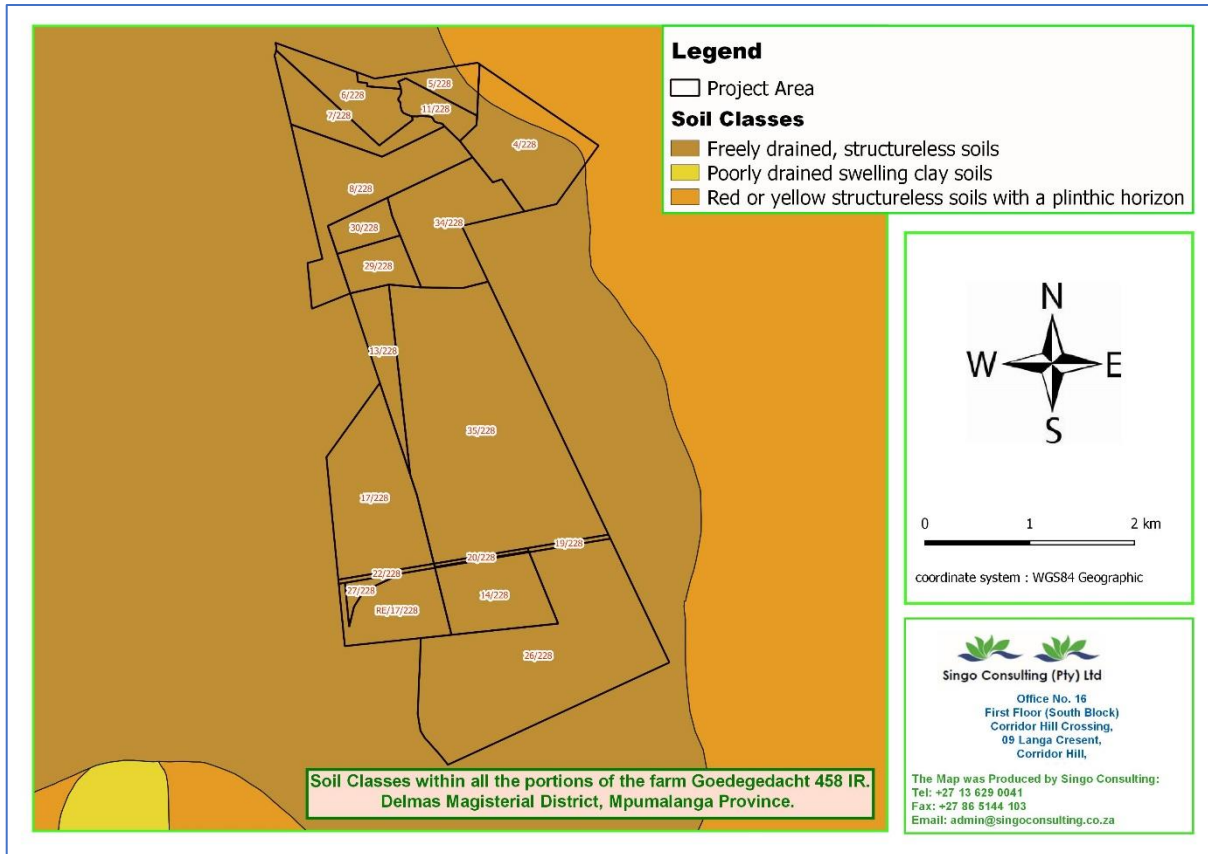


Figure 15: Soil classification map of the area of interest.

Water Resources

The Farm Goedgedacht 458 IR falls within the Upper Olifants catchment, B20C sub-catchment. The Upper Olifants catchment covers an area of 11 461 km², falling mainly within the Gauteng and Mpumalanga Provinces. The area includes the towns of Bronkhorstspuit, Delmas, Douglas, Kriel, Kinross, Ogies, Evander, Secunda, Bethal, Belfast, eMalahleni and Steve Tshwete. The Upper Olifants catchment is the most urbanised of the four sub-catchments.

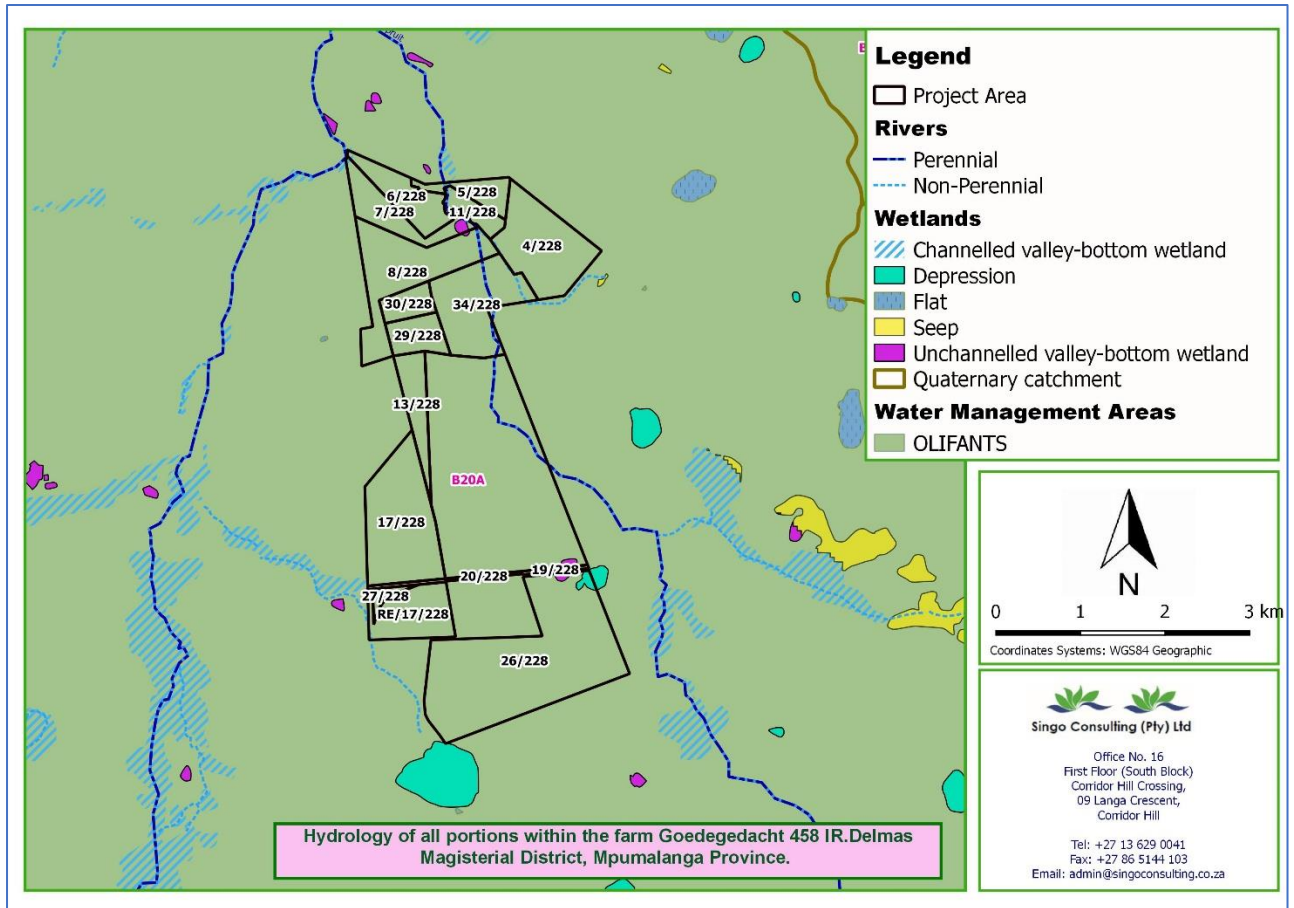


Figure 16: The sub-catchment of the project area inclusive.

Surface Water

According to the wetland sensitivity map below, there is a sensitive wetland body within the project area. Furthermore, the presence of water body means that water resources on site must be protected. All activities must take place 500m away from the water bodies and if that can't be then the water bodies must be channeled away from the site. All activities must be conducted in a manner that ensures the protection of water resources from pollution; best practice guidelines must be applied.

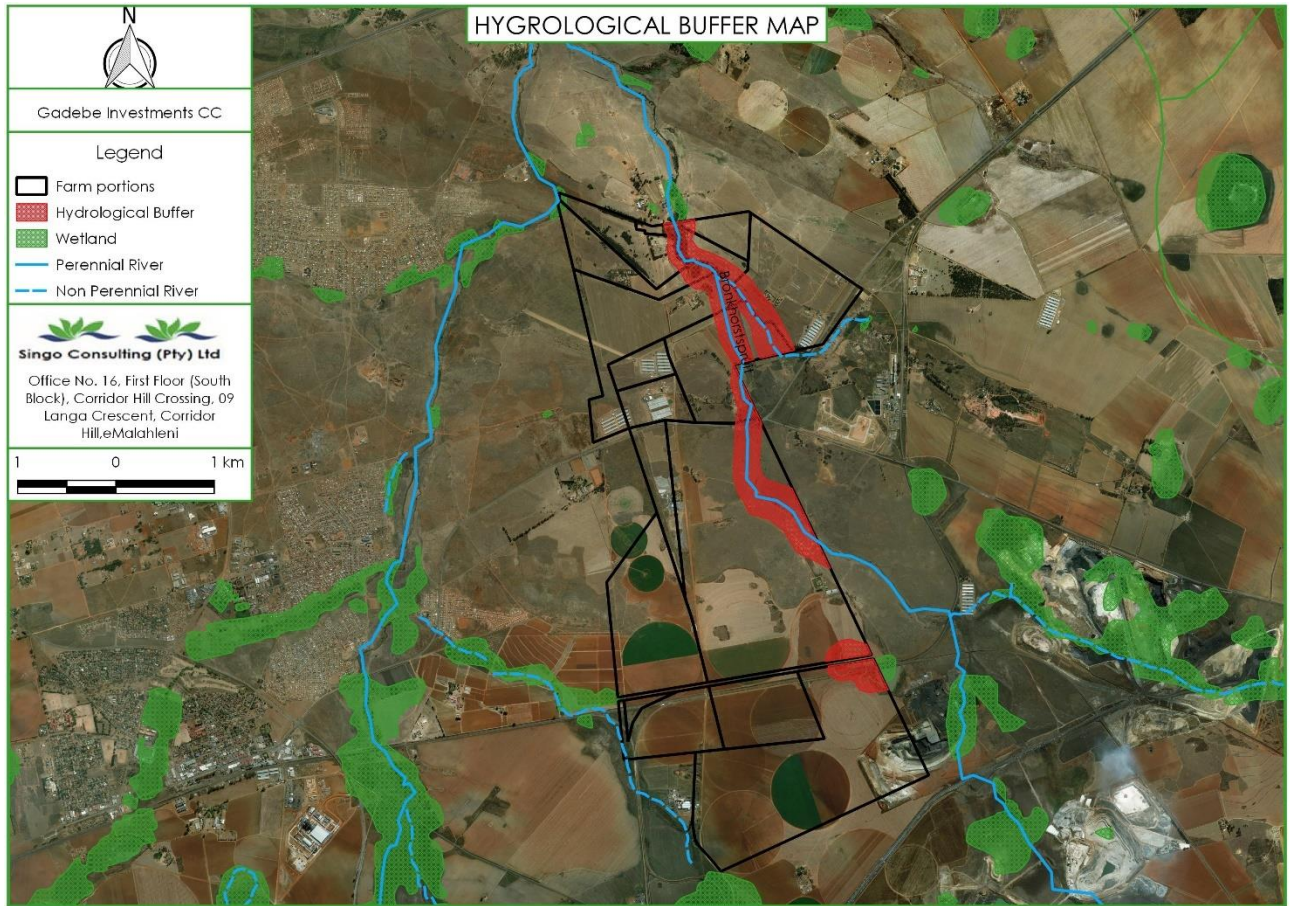


Figure 17: Environmental Sensitive Area Wetlands with the Buffer zone

Ground Water

The rock types underlying the study site can be divided into two distinct aquifers, namely a shallow weathered aquifer and a deeper fractured aquifer (source: Trans alloys Groundwater Model – MVB Groundwater Consulting).

Shallow aquifer: This aquifer mainly comprises unconsolidated sand and clay. The depth of weathering based on the geological borehole logs and some field investigations varies between 0m to 12m in depth. Recharge to this aquifer occurs from rainfall as well as from surface water sources. (source: Trans alloys Groundwater Model – MVB Groundwater Consulting).

Deep fractured aquifer: A deeper fractured aquifer also underlies the study area in the fresh shale, sandstone and coal seams underlying the weathered material. The primary porosity of the Ecca Group rocks does not allow significant groundwater flow, except where the porosity has been increased by subsequent secondary structures, such as faults and dykes. No dykes were however, detected in the study area.

Flora and Fauna

Natural Vegetation:

Although no sensitive, protected or endangered species were identified during the site inspection and it is also confirmed that no critical species within the proposed applied area, it is proposed that the applicant remove as little vegetation as possible. This will lessen the area to be managed for erosion and weed invasion purposes. Neither Mucina, Rutherford & Powrie (2005) nor van Rooyen & Bredenkamp (1996) in their literature highlight any species of concern. Van Rooyen & Bredenkamp (1996) describes the moist Cool Highveld grassland vegetation sort in its pristine condition as dominated by entire stands of Redgrass *Themeda triandra*. Though the likelihood cannot be dominated out, no species of concern was found throughout field surveys since the area has heavily modified by other activities.

Plants of Conservation Importance:

A possible 11 nationally protected species and 16 provincially protected species could occur on site. The nationally protected *Callilepis leptophylla* (listed as Declining) was not observed during current surveys but was confirmed on site during previous studies. Provincially protected species that were observed on site include: *Disa versicolor*, *Habenaria epipactidea*, *Eulophia clavicornis* var. *clavicornis*, *Brunsvigia radulosa*, *Crinum graminicola*, *Gladiolus permeabilis*, *Protea welwitschii* and *Cyrtanthus breviflorus*. The timber Belfast plantations are on the one end of the farm area and protected and also crops are on the area of interest.



Figure 18: Some of the plant identified during site assessment

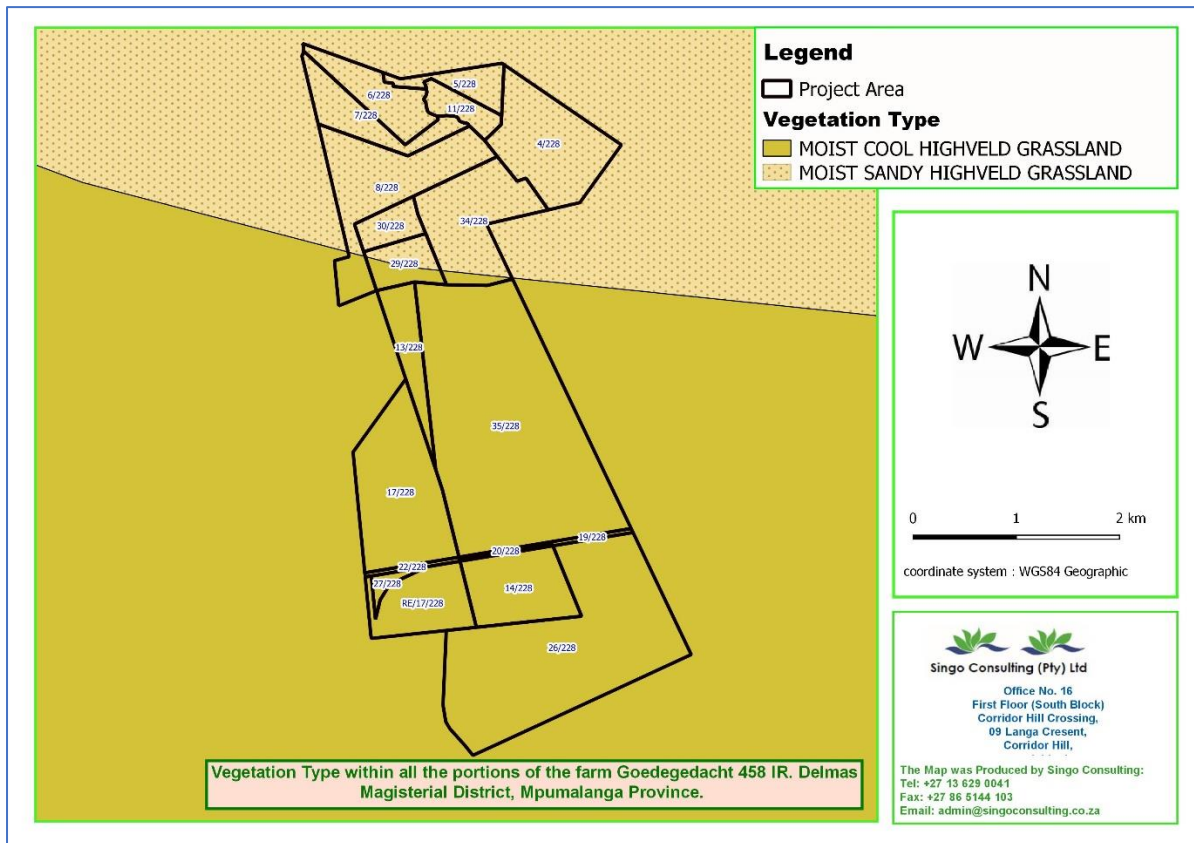


Figure 19: Vegetation diversity on the area of interest.

Fauna

Mpumalanga is faunally diverse with approximately 163 mammal species consisting of 98 smaller and 64 larger species. It is the objective of Mpumalanga Tourism and Parks Agency (MTPA) to conserve all of these species in situ. The grassland and forest biomes sustain many endemic and red data mammal species. The grassland biome is one of the biomes in which Red Data Book (RDB) insectivore richness is concentrated (Gelderblom, Bronner, Lombard & Taylor, 1995). High mammalian species richness occurs in savannahs, which could be as a result of the wide variety of habitats available. In Mpumalanga Province, savanna areas with the availability of sufficient cover, karst areas, wetlands, pans and a well-managed mosaic of short and tall grassland, are habitats that significantly contribute towards the ecological requirements of certain mammal species.

Smaller mammal species are extremely vulnerable to feral cats and dogs. Limited animal burrows (Yellow Mongoose, Highveld Gerbil, Multimamate Mouse) and African Molerat are around the sandy sections of the open grasslands.

Species of Conservation

The map below in Figure 20 presenting critical biodiversity of the area, it is confirmed that the permit is situated in heavily modified, moderately modified old land and other natural areas. There are no critical species will be affected by the proposed project as there are no critical plants and sensitivity within and around the proposed mining permit. Therefore, no critical species will be harmed even though identified during the operation of proposed project as Eco will be onsite every day to monitor the operation. Although the area is characterised by Moist Cool Highveld Grassland according to the GIS specialist, the area is heavily modified by other activities which leads to vanished of these Moist Cool Highveld grassland mentioned on the vegetation type section.

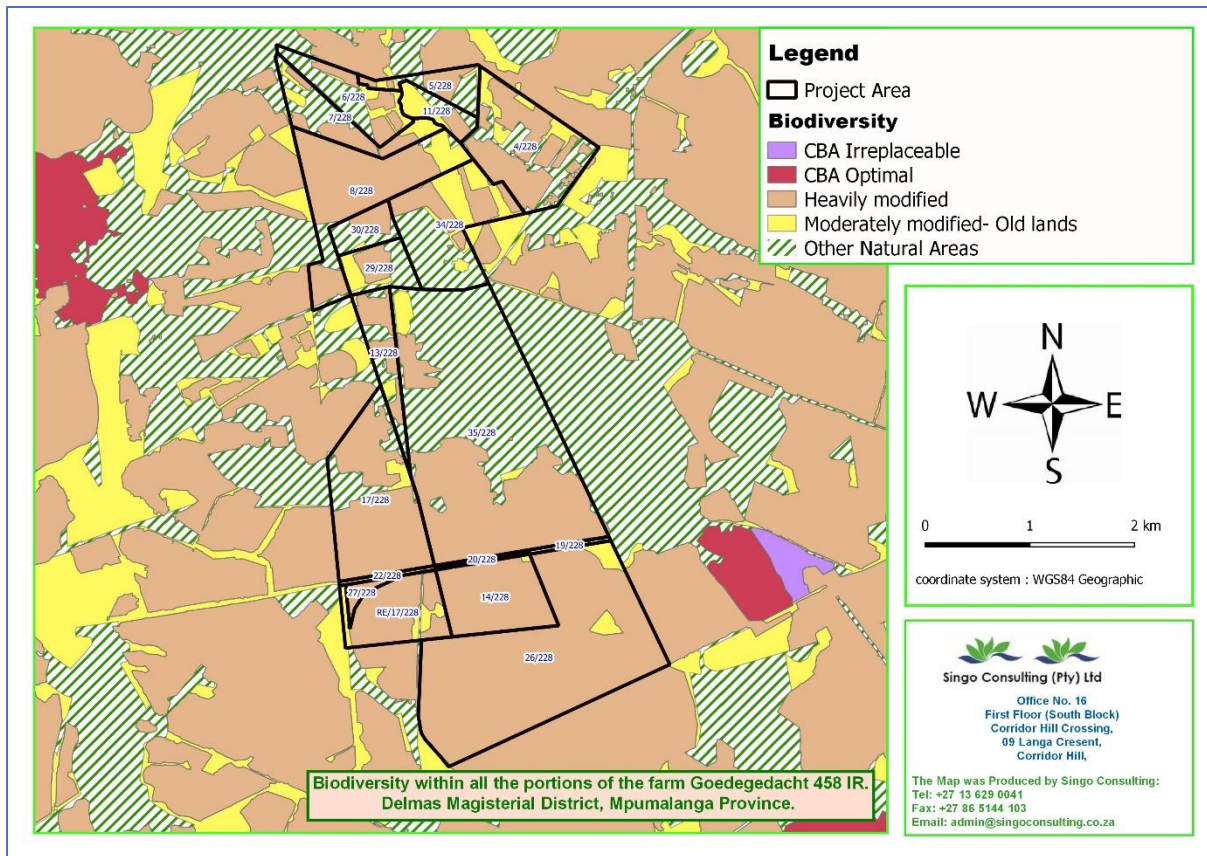


Figure 20: Critical biodiversity within the affected land by proposed project

Heritage Resources

Heritage resources such as Stone Age sites, rock paintings and engravings; stone tools; small, inconspicuous stone walled sites from the Late Iron Age farming communities; formal and informal graveyards, etc may occur in the study area.

The Phase 1 Heritage Impact Assessment conducted revealed that no heritage resources of significance occur within the study area or stand to be affected by the proposed project. There will therefore be no impacts on archaeological or cultural historical sites for any phases of the project.

It is essential to note that it is possible that the Phase 1 HIA may have missed heritage resources in the project area, as some heritage sites may occur in thick clumps of vegetation while others may lie below the surface of the earth and may only be exposed once development commences.

Should, however, any heritage resources of significance be exposed during the rather operational phase of the project, the South African Heritage Resources Authority (SAHRA) should be notified immediately, all development activities should be stopped, and an archaeologist accredited with the Association for Southern African Professional Archaeologist (ASAPA) should be notified to determine appropriate mitigation measures for the discovered

finds. This may include obtaining the necessary authorisation (permits) from SAHRA to conduct the required mitigation measures.

Socio-Economic

The study area for the proposed projects is in the Victor Khanye Local Municipality (STLM), situated at the Centre of Nkangala District Municipality. The VKLM can be described as an urban and rural area, and it is a home to a number of large industries such as Columbus Steel, Eskom (power generation), the Nkangala District Municipality's headquarters and various government departments.

The VKLM economy is dominated by the electricity sector, farming and mining activities; the main contributors to the GGP of the area. As can be expected from a predominantly mining area, the largest employment sector in the study area is mining and farming.

b) Description of the current land uses.

The proposed project is situated in an agricultural area where cultivation and stock farming are being practiced. The land use of the property also comprises of water bodies with the bare land used for grazing, short and tall grasses were seen during site assessment. Houses of the land owners and small community seen within the proposed land.

Figure 21 and

Figure 22 below represent the current land use within and surround the proposed farm.

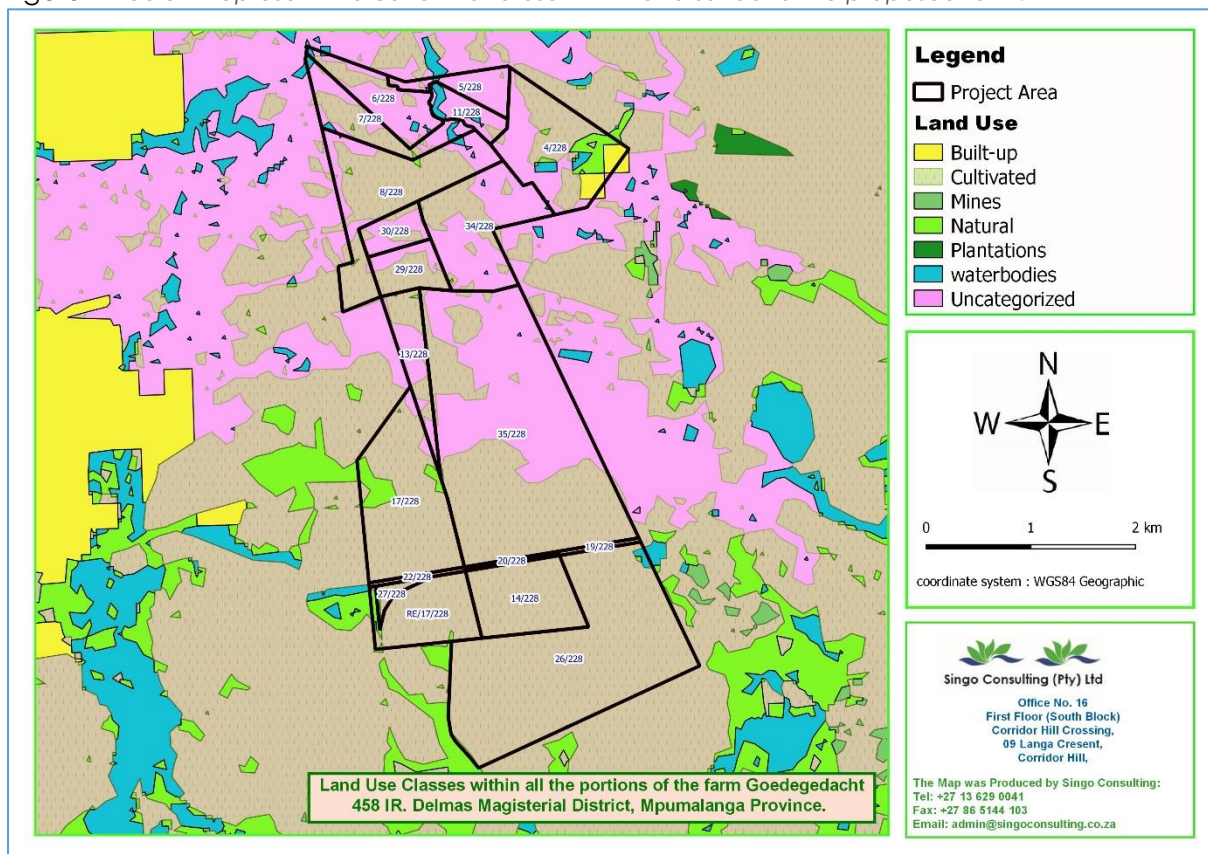


Figure 21: Land use Map of the area of interest.



Figure 22: Pictures shows the current land use within the proposed land

c) Description of specific environmental features and infrastructure on the site.

The proposed land is currently comprises with variety of in environmental features such as wetland, steep and gentle slopes and flowing river. Tall grasses and small grasses, shrubs and few trees were seen during site assessment, tar and gravel road which transverse the proposed land. Houses of the land owners and small settlement which form part of the community were identified. Silos for maize and poultry firm were noticed as the infrastructure within the proposed prospecting land.



Figure 23: Environmental features and Infrastructures around the site

10. Environmental and current land use map

(Show all environmental, and current land use features)



Figure 24: Environmental and current land use map.

11. Impacts and risks identified including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts

(Provide a list of the potential impacts identified of the activities described in the initial site layout that will be undertaken, as informed by both the typical known impacts of such activities, and as informed by the consultations with affected parties together with the significance, probability, and duration of the impacts. Please indicate the extent to which they can be reversed, the extent to which they may cause irreplaceable loss of resources, and can be avoided, managed or mitigated).

Element	Aspects and Impacts	Mitigation	Impact (post-mitigation)			
			Extent	Duration	Probability	Level of Significance
Soils	There will be minor disturbance of the soil at the proposed drill sites.	Rehabilitate each site as soon as the drilling is completed.	Low	Short Term	Definite	Low
Vegetation	The potential impact of the proposed prospecting on the vegetation would occur at proposed drilling sites and the access routes used to get to these sites. However large parts of the site have been transformed.	Environmental awareness training. Drillers to comply with all EMP procedures. Drilling sites to be located in disturbed areas wherever possible. The prospecting area including drill sites and access routes are to be rehabilitated to as near original condition as possible. No fires to be made in the prospecting area.	Low	Short Term	Definite	Low
Animal life	Animal life will be affected in the immediate vicinity of the drilling rig. It is anticipated that the noise and general activity will keep the animal life away from the site while the prospecting is ongoing.	Environmental awareness training for workers. If any animals are encountered, they must not be killed or injured, but should rather be removed or chased away from the site. All gates will be kept closed.	Low	Short Term	Definite	Low
Surface Water	There are no rivers, on site, however there is a wetland.	Water for drilling to be obtained bought and brought on site.	Low	Short term	Possible	Low
Ground water	No groundwater will be used or abstracted during the prospecting operations.	Establish EMP procedures to minimise hydrocarbon spills.	Low	Short Term	Possible	Low
Air Quality	Dust will not be created due to road maintenance that is done constantly by hakhona colliery and during drilling operations.	Establish EMP procedures to minimise the generation of dust. Ensure vehicles drive slowly.	Low	Short Term	Probable	Low
Noise	Noise will be created by the drilling rig and vehicles. However, this is a sparsely populated agricultural and mining area.	Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Low	Short Term	Definite	Low

Cultural Heritage	There are no known important heritage resources on the site.	If any heritage resources, including fossils, graves or human remains, are encountered these must be reported to the authorities.	Low	Short Term	Possible	Low
Visual	The prospecting activity will not change the visual character of the property.	Rehabilitate drill sites and access tracks.	Low	Short Term	Definite	Low
Socioeconomic	The effect of this prospecting activity for employment and socio-economic regime would be positive, but very limited in extent and duration. If a significant resource is delineated this could have a significant positive socio-economic impact, however a mining right application would be subject to a separate EIA process.	Environmental awareness training will be provided to all workers. Maximise procurement of goods and services from local providers.	Low	Short Term	Definite	Low (positive)
Social Neighbours	The prospecting operations should not impact on the neighbours due to the distance and low intensity of the prospecting operation.	Ensure compliance with the EMP. Ensure workers do not trespass onto neighbours' property. Maintain communications and keep a "Complaints Register" on site.	Low	Short Term	Possible	Low
Solid Waste	All solid waste will be transported to the nearest municipal waste site. Any industrial (hazardous) waste will be transported to a suitable waste disposal facility.	Ensure compliance with the EMP. Include in environmental awareness training. Workers will not stay overnight at the site.	Low	Short Term	Definite	Low
Traffic and access	Prospecting activities will generate very limited additional traffic. Prospecting vehicles are to access the property via existing roads and tracks only.	Comply with traffic regulations. Keep to speed limits. Ensure compliance with the EMP.	Low	Short Term	Definite	Low
Cumulative Impacts	There are no significant cumulative impacts associated with this prospecting programme.	No mitigation required for prospecting.	N/A	N/A	N/A	N/A

12. Methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks;

(Describe how the significance, probability, and duration of the aforesaid identified impacts that were identified through the consultation process was determined in order to decide the extent to which the initial site layout needs revision).

Criteria to Consider when Determining Severity of impacts

The ranking of impacts / determination of significance is estimated using two criteria, namely Consequence and Probability. These consider the contributing factors / criteria listed in the legislation. The definitions of each are provided below.

The evaluation of impacts is conducted in terms of the criteria detailed in Tables below. The various environmental impacts and benefits of this project are discussed in terms of impact status, extent, duration, probability, and intensity. Impact significance is regarded as the sum of the impact extent, duration, probability and intensity and a numerical rating system has been applied to evaluate impact significance; therefore, an impact magnitude and significance rating is applied to rate each identified impact in terms of its overall magnitude and significance.

In order to adequately assess and evaluate the impacts and benefits associated with the project it was necessary to develop a methodology that would scientifically achieve this and to reduce the subjectivity involved in making such evaluations. To enable informed decision - making it is necessary to assess all legal requirements and clearly defined criteria in order to accurately determine the significance of the predicted impact or benefit on the surrounding natural and social environment.

The **Consequence** of an impact resulting from an aspect is expressed as a combination of:

- **Nature** of impact: An indication of the extent of the damage (negative impacts) or benefit (positive impacts) the impact inflicts on natural, cultural, and/or social functions (environment).

Rating	Description	Quantitative rating
Positive	A benefit to the receiving environment.	P
Neutral	No cost or benefit to the receiving environment.	-
Negative	A cost to the receiving environment.	N

- **Extent** of impact: A spatial indication of the area impacted (i.e. how far from activity the impact is realised). The extent of an impact is considered as to whether impacts are either limited in extent or if it affects a wide area or group of people. Impact extent can be site specific (within the boundaries of the development area), local, regional or national and/or international.

Rating	Description	Quantitative rating
Low	Site-specific: Occurs within the site boundary.	1
Medium	Local: Extends beyond the site boundary. Affects the immediate surrounding environment (i.e. up to 5 km from the project site boundary).	2
High	Regional: Extends far beyond the site boundary, widespread effect (i.e. 5 km and more from the project site boundary).	3
Very high	National and/or international, extends far beyond the site boundary, widespread effect.	4

- **Duration** of impact: A temporal indication of the how long the effects of the impact will persist, assuming the activity creating the impact ceases. For example, the impact of noise is short lived (impact ceases when activity ceases) whereas the impact of removing topsoil exists for a much longer period of time.

Rating	Description	Quantitative rating
Low	Short term: Quickly reversible, less than project lifespan, 0-5 years.	1
Medium	Medium term: Reversible over time, approximate lifespan of the project, 5-17 years.	2
High	Long term: Permanent. Extends beyond the decommissioning phase, >17 years.	3

- **Impact Probability:** The probability of the impact describes the likelihood of the impact actually occurring.

Rating	Description	Quantitative rating
Improbable	Possibility of the impact materializing is negligible, chance of occurrence <10%.	1
Probable	Possibility that the impact will materialize is likely, chance of occurrence 10 – 49.9%.	2
Highly probable	It is expected that the impact will occur, chance of occurrence 50 – 90%.	3
Definite	Impact will occur regardless of any prevention measures, chance of occurrence >90%.	4
Definite and cumulative	Impact will occur regardless of any prevention measures, chance of occurrence >90% and is likely to result in cumulative impacts	5

- **Frequency of the impact occurring:** An indication of how often an aspect, as a result of a particular activity, is likely to occur. Note that this does not assess how often the impact occurs. It applies only to the aspect. For example driving takes place daily whilst other activities take place monthly while the resultant frequency of the impacts occurring will vary based on a number of factors.
- **Impact Intensity:** The intensity of the impact is determined to quantify the magnitude of the impacts and benefits associated with the proposed project.

Rating	Description	Quantitative rating
Maximum benefit	Where natural, cultural and / or social functions or processes are positively affected resulting in the maximum possible and permanent benefit.	+5
Significant benefit	Where natural, cultural and / or social functions or processes are altered to the extent that it will result in temporary but significant benefit.	+4
Beneficial	Where the affected environment is altered but natural, cultural and / or social functions or processes continue, albeit in a modified, beneficial way.	+3
Minor benefit	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are only marginally benefited.	+2
Negligible benefit	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are negligibly benefited.	+1
Neutral	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are not affected.	0
Negligible	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are negligibly affected	-1
Minor	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are only marginally affected.	-2
Average	Where the affected environment is altered but natural, cultural and / or social functions or processes continue, albeit in a modified way.	-3
Severe	Where natural, cultural and / or social functions or processes are altered to the extent that it will temporarily cease.	-4
Very severe	Where natural, cultural and / or social functions or processes are altered to the extent that it will permanently cease.	-5

The proposed activities have very low significance since these are short term activities. The probability of occurrence of an impact was determined and most of these activities can be controlled and impacts can be reduced or avoided. The probability was also used basing

on looking at other prospecting activities of similar nature. Generally prospecting activities have low impact on the environment. The planned activities negative impacts can be controlled and avoided or minimised therefore the layout does not require revision. Changes in plan will be discussed with the farmers and approvals will be signed.

- **Impact Significance:** The impact magnitude and significance rating is utilised to rate each identified impact in terms of its overall magnitude and significance.

Impact	Rating	Description	Quantitative rating
Positive	High	Of the highest positive order possible within the bounds of impacts that could occur.	+12-16
	Medium	Impact is real, but not substantial in relation to other impacts that might take effect within the bounds of those that could occur. Other means of achieving this benefit are approximately equal in time, cost and effort.	+6-11
	Low	Impacts is of a low order and therefore likely to have a limited effect. Alternative means of achieving this benefit are likely to be easier, cheaper, more effective and less time consuming.	+1-5
No impact	No impact	Zero impact	0
Negative	Low	Impact is of a low order and therefore likely to have little real effect. In the case of adverse impacts, mitigation is either easily achieved or little will be required, or both. Social, cultural, and economic activities of communities can continue unchanged.	-1-5
	Medium	Impact is real, but not substantial in relation to other impacts that might take effect within the bounds of those that could occur. In the case of adverse impacts, mitigation is both feasible and fairly possible. Social cultural and economic activities of communities are changed but can be continued (albeit in a different form). Modification of the project design or alternative action may be required.	-6-11
	High	Of the highest order possible within the bounds of impacts that could occur. In the case of adverse impacts, there is no possible mitigation that could offset the impact, or mitigation is difficult, expensive, time-consuming or a combination of these. Social, cultural and economic activities of communities are disrupted to such an extent that these come to a halt.	-12-16

13. The positive and negative impacts that the proposed activity (in terms of the initial site layout) and alternatives will have on the environment and the community that may be affected.

(Provide a discussion in terms of advantages and disadvantages of the initial site layout compared to alternative layout options to accommodate concerns raised by affected parties)

Potential impact on heritage resources

There are no graves or historical ruins identified during site assessment which are going to be affected by the proposed prospecting activities. The area is being extensively used for mining and agriculture and therefore no to very limited heritage resources are present. The prospecting is so localised that it is not anticipated that there will be any impact on heritage resources. The major activity involved drilling and it is going to be done according to the geological information. If any heritage resources identified during prospecting activities a buffer zone will be created according to the SANHA to avoid any impacts on heritage resources.

Potential impacts on communities, individuals, or competing land uses in close proximity

The following impacts are regarded as community impacts:

- Potential groundwater and soil pollution resulting from accidental hydrocarbon spills and soil erosion
- Noise during prospecting operations- There are no residential housing within the radius from the prospecting sites therefore noise impact will be limited
- Influx of persons (job-seekers) to site as a result of increased activity and the possible resultant increase in opportunistic crime
- Creation of limited temporary jobs for locals. Impact on current land use: A large majority of the prospecting area is currently used for agricultural activities.

Potential impact of vegetation

Prospecting site will be cleared to a maximum of 100 m². Therefore, vegetation clearance will be limited to the area of drilling point. Existing access road will be preferred to avoid clearing of vegetation unnecessary. No accommodation will be provided within the farm unless the arrangement between the landowners and applicant has been done and agreed.

14. The possible mitigation measures that could be applied and the level of risk.

(With regard to the issues and concerns raised by affected parties provide a list of the issues raised and an assessment/ discussion of the mitigations or site layout alternatives available to accommodate or address their concerns, together with an assessment of the impacts or risks associated with the mitigation or alternatives considered).

This section contains guidelines, operating procedures and rehabilitation/pollution control requirements which will be binding on the holder of the prospecting right after approval of the Environmental Management Plan. It is essential that this portion be carefully studied, understood, implemented and adhered to at all time. The applicant shall ensure that this Environmental Management Plan is provided to the Project Manager and any other person or organisation who may work on the site. The applicant Development shall ensure that any person or organisation that works on the site complies with the requirements of this Environmental Management Plan.

Responsibility

- The environment affected by the prospecting operations shall be rehabilitated, as far as is practicable, to its existing state.
- The environment affected by prospecting shall be maintained in a stable condition that will not be detrimental to the safety and health of humans and animals.
- The prospecting shall not result in the pollution of the environment or lead to the degradation thereof.
- It is the responsibility of the Company to ensure that the Project Manager, employees and contractors are capable of complying with all the statutory requirements which must be met in order to prospect, which includes the implementation of this EMP.
- The Project Manager will be responsible for the practical implementation of this EMP.

These mentioned responsibility should be an ongoing process, during the prospecting period.

Community relations

The Company shall notify the landowner two weeks before prospecting operations commence. The notice shall include contact details for any complaints about the actual prospecting activities.

The Company shall keep a "Complaints Register" on site. The Register shall contain the contact details of the person who made the complaint, and information regarding the complaint itself. The Company shall respond to all complaints within seven days. Copies of all responses should be kept together with the Register. These mentioned relationship should be an ongoing process, during the prospecting period.

Layout Plan

A copy of the layout plan as provided for in Regulation 2(2) must be available at the prospecting site for scrutiny when required.

Workers

Environmental awareness training must be provided to all workers. Workers will not be allowed to trespass onto neighbouring properties. Environmental awareness training should be an ongoing process, during the prospecting period.

Protection of flora and fauna

Except to the extent necessary for carrying out the prospecting activities, flora shall not be removed, damaged or disturbed nor shall any vegetation be planted.

It is anticipated that the noise and general activity will keep the animal life away from the site whilst drilling is taking place. If animals are encountered during the prospecting operations they must not be killed or injured. Trapping, poisoning and / or shooting of animals is strictly prohibited. No domestic pets are permitted on site.

Road safety and access

The access road to and routes in the prospecting area must be established in consultation with the landowner and existing roads and tracks shall be used as far as practicable. The erection of temporary gates in fence lines and the open or closed status of farm gates is not necessary as there is already existing fence and gates. No new roads are to be constructed on this site. Tracks across areas covered by natural vegetation will be kept to the absolute minimum required. Employees must comply with all speed and traffic regulations on public roads and should not exceed 40km/hour on farm roads.

Water

A preferred drilling method will be an air flush drilling method that will require no water. If there will be a need of water during drilling process will be sourced from outside and will be brought to the drilling sites by a bowser. No groundwater will be used or abstracted during the drilling programme unless the applicant has an agreement with the landowners to use water from their boreholes. Employees will bring in their own drinking water on a daily basis.

Office / Camp Site

In order to minimise impacts in the prospecting area, no temporary office or camp site will be established. All employees will stay offsite. The employees will drive to the site every day when drilling operations are in progress. A security company may be contracted to protect the drilling equipment overnight or over weekends if the drill contractors have a weekend off.

Vehicles and Fuel

Vehicles will be kept to the absolute minimum required to complete the prospecting tasks. This will consist of 4WD vehicles (bakkies), a drilling rig, a water bowser and a fuel bowser. All servicing and refuelling of the support vehicles will take place in town (i.e. outside of the prospecting area).

If emergency maintenance is required in the field, the Company must ensure that no pollution occurs. When servicing equipment, drip trays shall be used to collect the waste oil, hydraulic fluid and other lubricants. Drip trays shall be provided in the prospecting area for stationary plant (such as the drill rig). Vehicles and equipment used in the prospecting operation must be adequately maintained so that no spillage of oil, diesel, petrol or hydraulic fluid occurs.

Only the drilling rig will need to be refuelled in the prospecting area. The surface under the refuelling point shall be protected against pollution by means of carefully placed drip trays. If any hazardous substances such as fuels and oils etc. are brought to the site and left overnight then they shall be securely stored in an open area with temporary fencing in a previously disturbed area. This area should be located on a facility with a PVC lining in order to prevent soil and groundwater pollution.

The Company shall ensure that there is always a supply of absorbent material available to absorb / breakdown / encapsulate minor hydrocarbon spills. The quantity of such materials shall be able to handle a minimum of a 200 litre hydrocarbon spill.

Used oil should be collected in a suitable container and this should then be removed from the site, either for resale or for recycling.

Any effluents or waste containing oil, grease or other industrial substances must be collected in a suitable container and removed from the site, either for resale, recycling or for appropriate disposal at a recognised facility.

Toilet facilities

Portable chemical toilets must be brought to the site during the Invasive Prospecting Phases (i.e. Drilling). These toilets must be serviced regularly.

Waste management

Suitably covered containers shall be available at the drilling rig at all times and conveniently placed for the disposal of waste. Biodegradable waste and non-biodegradable waste (e.g. glass bottles, plastic bags, metal scrap, etc.) shall be disposed of in different containers. All waste must be removed from the site on a daily basis and disposed of at a recognised waste disposal facility (e.g. nearest municipal waste site). Specific precautions shall be taken to prevent waste from being dumped on or in the vicinity of the prospecting site.

If any hazardous waste is generated, then this must be transported to a recognised waste disposal facility.

Effluents

Any effluents or waste containing oil, grease or other industrial substances must be collected in a suitable container and removed from the site, either for resale, recycling or for appropriate disposal at a recognised facility.

Access to drill sites

The project manager will flag the most appropriate access route to each drill site. Drill site access tracks shall be rehabilitated, as far as is practicable, to their original state. A map showing the proposed sites for the second phase of activity must be submitted to the DMR for approval before the second phase of drilling commences. Peg positions of borehole sites prior to commencement of drilling operations. Vehicle access requirements are ongoing, during each drilling phase.

Drilling

The following procedures at each drilling site must be complied with:

- Every effort must be made to minimise the area needed at each drilling site.
- Vegetation should not be cut or trimmed unless absolutely essential.
- The area that was disturbed by the drilling operation at each site shall be rehabilitated, as far as is practicable, to its original state as soon as the drilling is completed.
- Photographs, for monitoring purposes, should be taken before drilling commences and after each drilling site has been rehabilitated. These photographs should be included in the required Performance Assessment Reports.

Heritage Resources

If any heritage resources, including graves or human remains, are encountered these should be reported to responsible authorities immediately.

Windblown sand and dust

During prospecting operations all reasonable measures must be taken to minimise the generation of dust and to prevent windblown sand. These measures include:

- Removal or cutting of vegetation shall be avoided unless absolutely essential.
- Vehicles should not exceed 40 km/hour along farm roads.

Noise

The noise levels on the site should be limited by taking the following measures:

- Vehicles and equipment should be regularly maintained.
- Silencers should be installed and maintained on machinery, trucks and prospecting equipment.
- No loud music should be played in the prospecting area.

Rehabilitation

If the access tracks to the drill sites and the drill sites themselves result in new patches of exposed earth, then it will be necessary to re-establish a protective vegetative cover over these areas. This can be achieved by contracting labour to manually cut and prune branches from the local shrubs and spread these over the area to be rehabilitated. Seeds from these branches will fall onto the ground. The spread cut branches will hold the topsoil and sand in place (i.e. protect it from erosion), help to retain moisture in the soil and also initially protect the seedlings of germinating plants. Rehabilitation of the drilling sites must be done immediately after each drilling phase.

Environmental Related Emergencies and Remediation

The Company will operate on the principle that "prevention is better than cure" and so will institute procedures to reduce the risk of emergencies taking place. These will include ensuring that all contracts specify that the contractor is required to comply with all the environmental measures specified in this EMP, environmental awareness training, on-going risk assessment and emergency preparedness.

Emergency telephone numbers

All employees shall have the telephone numbers of emergency services, including the local ambulance and firefighting service. All employees must be made aware of procedures to be followed during the environmental awareness training course.

Fire

The Company shall ensure that there is basic firefighting equipment available on Site at all times. This shall include at least two rubber beaters and at least one fire extinguisher. The Company shall advise the relevant authority of a fire as soon as one starts and shall not wait until the fire is out of control.

Hydrocarbon spills

The Company shall ensure that all employees are aware of the procedures to be followed for dealing with hydrocarbon spills. The Company shall ensure that the necessary materials and equipment for dealing with hydrocarbon spills and leaks is available on Site at all times. The Company shall ensure that there is always a supply of absorbent material readily available to absorb/ breakdown and where possible is designed to encapsulate minor hydrocarbon spillage. The quantity of such materials shall be able to handle a minimum of 200 l of hydrocarbon liquid spill.

There are a number of different products on the market, which can be used as absorbents and encapsulators of hydrocarbons. The following are examples of these products:

- Spill-Sorb
- Drizzit
- Enretech
- Peat Moss

In the event of a significant hydrocarbon spill, the following procedure is required:

- The source of the spillage shall be isolated
- The spillage must be contained using sand berms, sandbags, pre-made booms, sawdust or absorbent materials.
- The area shall be cordoned off, secured and made safe.
- If a serious spill has occurred in a sensitive environment, then the Department of Environmental Affairs and Development Planning: Directorate Pollution & Waste Management must be notified.

Treatment and remediation of spill areas shall be undertaken to the satisfaction of the Project Manager. Remediation may include in-situ bioremediation using appropriate products (e.g. Enretech-1 and / or the removal of the spillage together with the contaminated soil and the disposal at a recognised facility.

15. Motivation where no alternative sites were considered.

Due to desktop study conducted in the proposed land and field work that was done it encourage the applicant to continue with the application as the area shows the chances of Coal and Gravel availability are high. There is a coal mining operating on the adjacent of the farm proposed. A dolerite rock which was seen on the surface during site assessment also motivate the area as the most preferred area.



Figure 25: Dolerite rock which was seen during site assessment

16. Statement motivating the alternative development location within the overall site.

(Provide a statement motivating the final site layout that is proposed)

As is clear from the information provided, each of the phases is dependent on the results of the preceding phase. The location and extent of drilling will be determined based on information derived from the desktop investigation and field survey. An estimated number and extend have been provided, but this will be finalised. Since exploration is temporary in nature no permanent structures will be constructed, Negotiations and agreements will be made with the farm owners to use any existing infrastructure like access roads.

17. Full description of the process undertaken to identify, assess and rank the impacts and risks the activity will impose on the preferred site (In respect of the final site layout plan) through the life of the activity.

(Including (i) a description of all environmental issues and risks that were identified during the environmental impact assessment process and (ii) an assessment of the significance of each issue and risk and an indication of the extent to which the issue and risk could be avoided or addressed by the adoption of mitigation measures.)

In order to identify the potential impacts associated with the proposed prospecting activities the following steps were undertaken:

- Landowners and stakeholders consultation Environmental assessment conducted for neighbouring projects
- A detailed desktop investigation was undertaken to determine the environmental setting in which the project is located. Based on the desktop investigations various resources were used to determine the significance and sensitivity of the various environmental considerations. The desktop investigation involved the use of:
 - South African National Biodiversity Institute (SANBI) Biodiversity
 - Geographic Database LUDS system
 - Geographic Information System base maps
 - Municipal Integrated Development Plan and Spatial Development Framework.
- Site visits conducted was used as the ground truth compared to desktop information.
- The rating of the identified impacts was undertaken in a quantitative manner as provided in this document. The ratings are undertaken in a manner to calculate the significance of each of the impacts. The EAP also assesses the outcomes of the calculation to determine whether the outcome reflects the perceived and actual views.
- The identification of management measures is done based on the significance of the impacts and measures that have considered appropriate and successful, specifically as Best Practical and Economical Options.

18. Assessment of each identified potentially significant impact and risk

(This section of the report must consider all the known typical impacts of each of the activities (including those that could or should have been identified by knowledgeable persons) and not only those that were raised by registered interested and affected parties).

NAME OF ACTIVITY (E.g. For prospecting – drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. For mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	POTENTIAL IMPACT (Including the potential impacts for cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc....etc...)	ASPECTS AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational Decommissioning, closure, post-closure)	SIGNIFICANCE if not mitigated Pos High (+12-16), Pos Medium (+6 – 11), Pos Low (+1-5), No impact (0), Neg Low (-1-5), Neg Medium (-611), Neg High (-12-16)	MITIGATION TYPE (modify, remedy, control, or stop) through (e.g. noise control measures, stormwater control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. Modify through alternative method. Control through noise control Control through management and monitoring through rehabilitation.	SIGNIFICANCE if mitigated Pos High (+12-16), Pos Medium (+6 – 11), Pos Low (+15), No impact (0), Neg Low (-1-5), Neg Medium (-611), Neg High (-12-16)
Ground / Airborne Surveys	Poor access control	Loss of cattle	Phase 1	5	Access control measures Consultation with landowner	5
Data collection & assessment	None	Not applicable	Phase 2	0	No mitigation required	0
Data assessment	None	Not applicable	Phase 2	0	No mitigation required	0
Site Camp establishment	None	Not applicable	Phase 3	0	No mitigation required	0

Drilling	Noise	Animals and people	Prospecting Phase 3	7	Noise Control. Ensure vehicles and equipment and maintained. Silencers should be fitted on all engines.	5
Drilling	Surface Disturbance	Animals, Environment	Prospecting Phase 3	10	Rehabilitate each site as soon as the drilling is completed. Avoid significant vegetation such as trees and large shrubs Raised blade clearing will be conducted to minimize disturbance and aid rehabilitation efforts Fire emergency procedure will be developed to contain and minimise destruction of flora and faunal habitat which may result from fire	7
Driving	Air pollution	Animals, people, Environment	Prospecting Phase 3	7	Establish EMP procedures to minimise the generation of dust. Ensure vehicles drive slowly. Comply with traffic regulations. Keep to speed limits. Ensure compliance with the EMP.	5
Drilling	Ground water pollution	Animals, people	Prospecting Phase 3	Medium	Establish EMP procedures to minimise hydrocarbon spills.	Low
Accommodation and Site camp	Solid Waste	Animals, people and environment	Prospecting Phase 3	Low	Ensure compliance with the EMP. Include in environmental awareness training. Workers will not stay overnight at the site.	Low
Access roads	Soil compaction resulting from repeated use of access roads to drill sites	Loss of soil resources	Phase 3	9	Where track clearing is necessary, raised blade clearing be conducted to minimize disturbance and aid rehabilitation efforts As part of rehabilitation, all compacted roads and drill pads will be ripped and revegetated	6

Access roads	Potential destruction of unknown heritage resources	Loss of Cultural and/or Heritage Significant	Phase 3	5	Prior to the establishment of access roads or drill pads, a heritage assessment will be conducted on the selecting drilling sites and access roads. It is anticipated that limited to no heritage resources will be found due to the areas altered and disturbed state	4
GIS & analytical desktop studies	None identified		Phase 4	0	No mitigation required	0

The supporting impact assessment conducted by the EAP must be attached as an appendix, marked **Appendix**

19. Summary of specialist reports.

(This summary must be completed if any specialist reports informed the impact assessment and final site layout process and must be in the following tabular form):-

LIST OF STUDIES UNDERTAKEN	RECOMMENDATIONS OF SPECIALIST REPORTS	SPECIALIST RECOMMENDATIONS THAT HAVE BEEN INCLUDED IN THE EIA REPORT (Mark with an X where applicable)	REFERENCE TO APPLICABLE SECTION OF REPORT WHERE SPECIALIST RECOMMENDATIONS HAVE BEEN INCLUDED.
Soil Study	No done		
Wetland Delineation	Not done		

Attach copies of Specialist Reports as appendices

20. Environmental impact statement

(i) Summary of the key findings of the environmental impact assessment;

The majority of the prospecting activities are non-invasive and hence will have very low to negligible environmental or social impact. The invasive activities that entail the drilling of approximately 15 exploration holes will have a minimal environmental and social impact as each drill site will be confined to an area of 0.9 hectares. This needs to be viewed in the context of the entire prospecting license area under application.

The proposed prospecting operation will not affect any existing alternative land uses on the property or on adjacent property or non-adjacent property. The following actions are subject to the proposed mitigation measures and require monitoring:

- The clearing of vegetation
- The storage of hydrocarbon based materials on site
- On-site waste management
- The creation of roads/tracks
- The removal of storage and soil
- The traversing of vehicles through populated areas within the prospecting area
- Groundwater: Monitor the water quality of the boreholes
- Surface Water: Monitor water quality of the stream and stream flow

Monitoring of the required mitigation measures is to take place on site daily by the site geologist. Annual monitoring audits are to take place by an appointed independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR.

(ii) **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 .

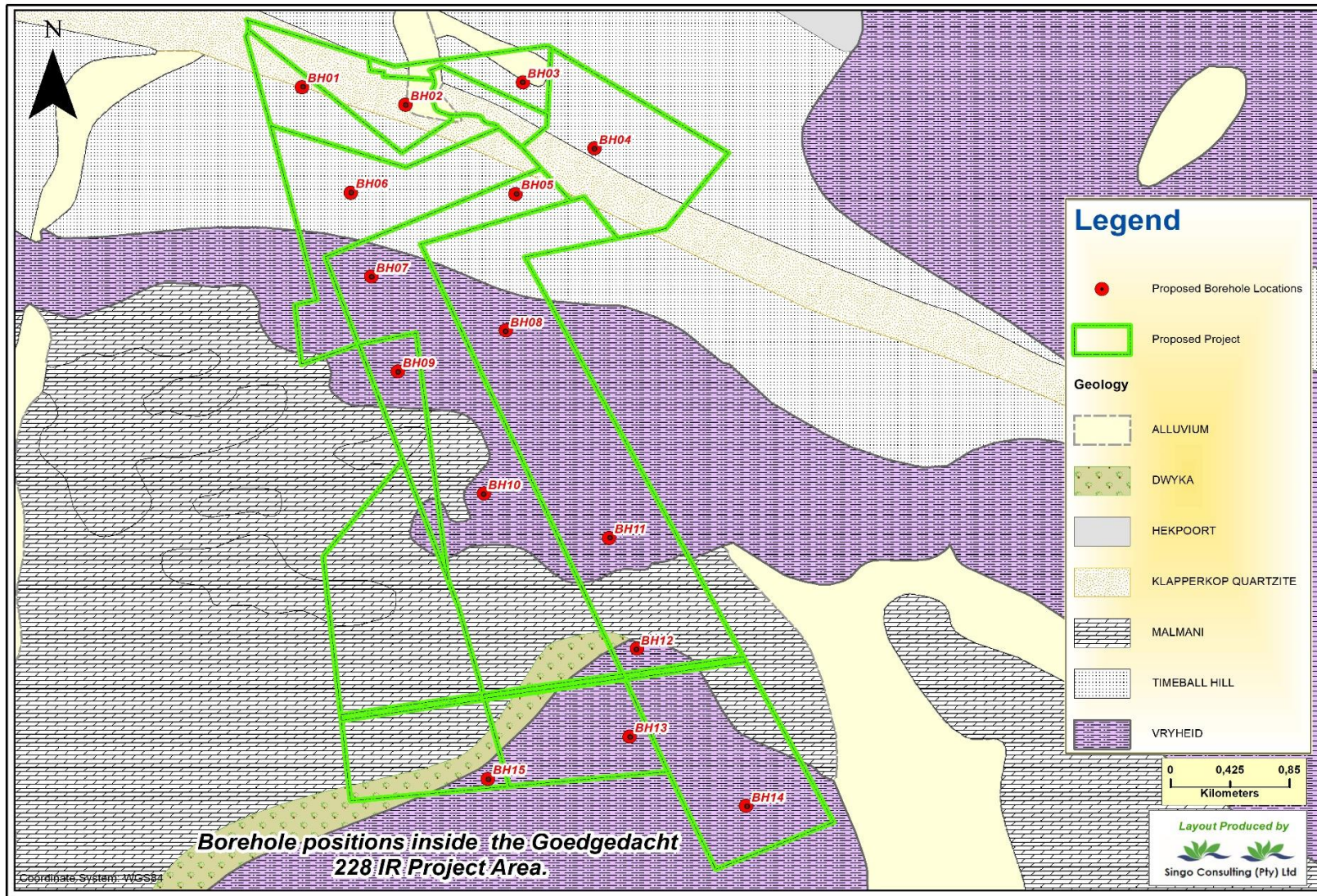


Figure 26: Map which shows the number and the position of the proposed land

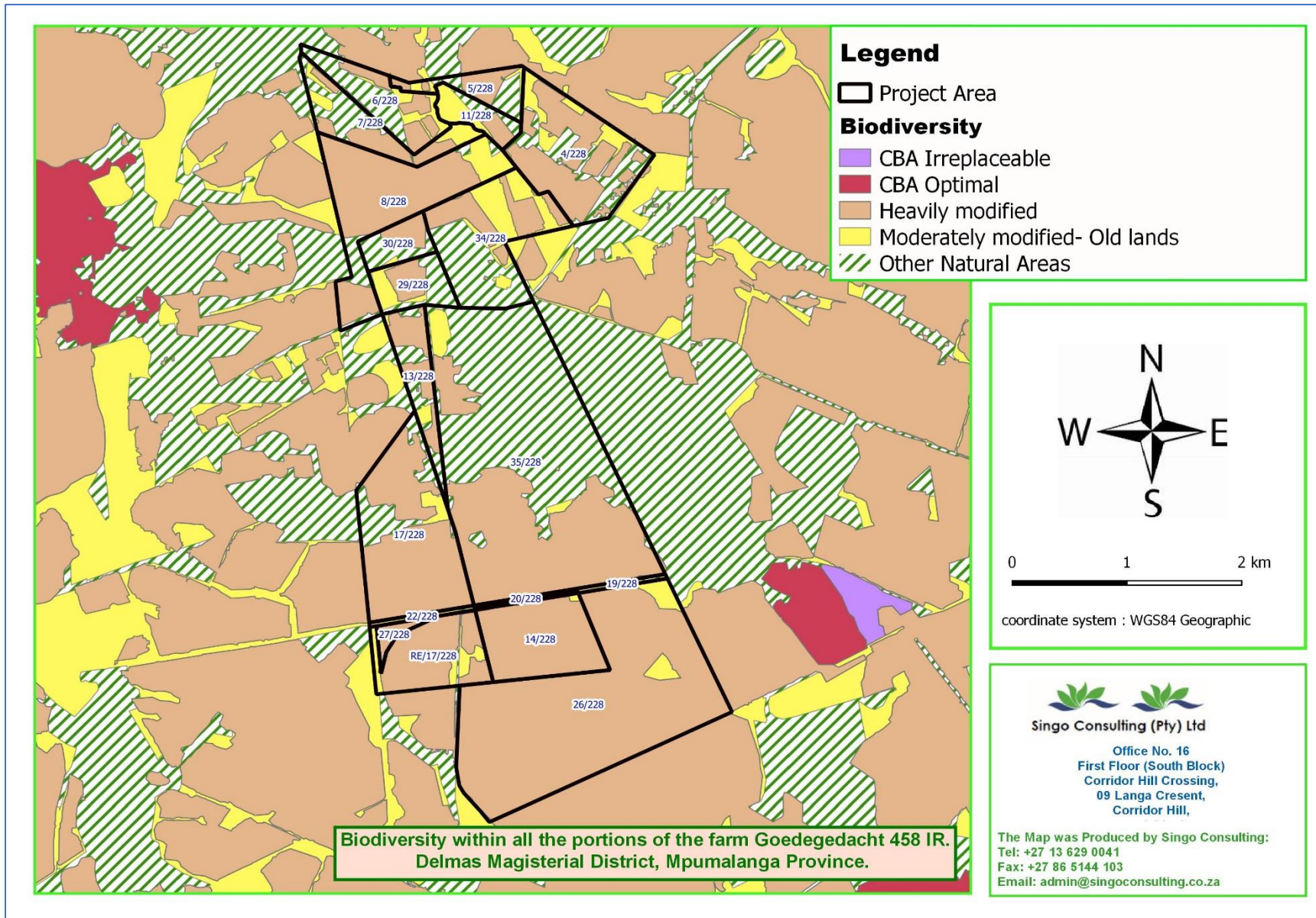


Figure 27: Biodiversity map of the area as form part of deciding boreholes positions

(iii) **Summary of the positive and negative impacts and risks of the proposed activity and identified alternatives;**

Table 5: Summary of positive and negative impacts

Proposed Activity	Potential Impacts
Desktop Study	No impacts on site
Airborne / Ground Geophysics	<ul style="list-style-type: none"> • Low impacts from short-term staff and • vehicle access to the site, • interfering with the animal grazing paddocks • managing fences and gates • Livestock falling into dug trenches • Creation of employment
Drilling	<ul style="list-style-type: none"> • Access tracks • Disturbance of vegetation and topsoil • Oil & fuel spills • Dust & noise • Labour issues • Litter • Possible discovery of fossils • Creation of employment
Sample processing / evaluation / decision making	No impacts on site.
Rehabilitation	Replacing topsoil, covering with brushwood etc

The proposed activities have very low significance since these are short term activities. The probability of occurrence of an impact was determined and most of these activities can be controlled and impacts can be reduced or avoided. Generally prospecting activities have low impact on the environment. The planned activities negative impacts can be controlled and avoided or minimised therefore the layout does not require revision. Mitigation measures will be used to control any potential impact.

21. 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 sufficient information to strategically plan the prospecting activities as to avoid unnecessary social and environmental impacts.
- Provide sufficient information and guidance to plan prospecting activities in a manner that would reduce impacts (both social and environmental) as far as practically possible.
- Ensure an approach that will provide the necessary confidence in terms of environmental compliance.
- Provide a management programme that is effective and practical for implementation. Through the implementation of the proposed mitigation measures it is anticipated that the identified social & environmental impacts can be managed and mitigated effectively. Through the implementation of the mitigation and management measures it is expected that:
 - Noise generation can be managed through consultation and restriction of n operating hours and by maintaining equipment and applying noise abatement equipment if necessary;
 - Dust fall can be managed by application of wet suppression on exposed surfaces and use of water during drilling;
 - Soil disturbance and clearance of vegetation at drill pad areas will be limited to the absolute minimum required and disturbed areas will be re-vegetated with locally indigenous species as soon as possible;
 - Animal life is protected and preserved at all times and the prospecting activities has minimal disturbance to the surrounding habitat;
 - Social friction with landowners can be managed by regular engagement with the landowner and the entering into an access agreement with the landowner.

Monitoring of the required mitigation measures is to take place on site daily by the site geologist. Annual monitoring audits are to take place by an appointed independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR.

The Company will operate on the principle that "prevention is better than cure" and so will institute procedures to reduce the risk of emergencies taking place. These will include ensuring that all contracts specify that the contractor is required to comply with all the environmental

measures specified in this EMP, environmental awareness training, on-going risk assessment and emergency preparedness.

All employees shall have the telephone numbers of emergency services, including the local ambulance and firefighting service. All employees must be made aware of procedures to be followed during the environmental awareness training course.

22. Aspects for inclusion as conditions of Authorisation.

Any aspects which must be made conditions of the Environmental Authorisation

Maintain a minimum 500 m buffer from any infrastructure or dwelling; The Landowner should be engaged at least 1 month prior to any site activities being undertaken once drill sites are known; and a map detailing the drilling locations should be provided to the landowner as well as the DMR prior to commencement of prospecting activities.

The company should comply with all environmental legislation. Specific aspects to be adhered to from environmental legislation include; National Environmental Management Act, Act 107 of 1998 (NEMA), Minerals and Petroleum Resources Development Act, Act 28 of 2002 (MPRDA), National Water Act, Act 36 of 1998 (NWA) and Conservation of Agricultural Resources Act, Act No. 43 of 1983 (CARA)

23. Description of any assumptions, uncertainties and gaps in knowledge.

(Which relate to the assessment and mitigation measures proposed)

It is assumed that the description of the proposed project, provided by the applicant is sufficient for providing the authorities with the right information for understanding the proposed project.

24. Reasoned opinion as to whether the proposed activity should or should not be authorised.

I. Reasons why the activity should be authorized or not.

It is the opinion of the EAP that the proposed prospecting activities should be authorised. The environmental impacts associated with the limited drilling activities are minimal provided that the proposed mitigation is implemented; The spatial extent of the physical impact is less than 100m² per drill site over a prospecting right area, 15 drill sites will be established in total throughout the duration of the drilling programme; With appropriate care and consideration the impacts resulting from drilling can be suitably avoided, minimised or mitigated; With implementing the appropriate rehabilitation activities, the impacts associated with the drilling activities can be reversed; and Monitoring of the required mitigation measures is to take place on site daily by the site geologist. Annual monitoring audits are to take place by an appointed

independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR. If prospecting activities is not implementing the knowledge concerning the potential mineral resource within the prospecting right area will not be confirmed.

II. Conditions that must be included in the authorisation

The company should comply with all environmental legislation. Maintain a minimum 500m buffer from any infrastructure or dwelling; the landowner should be engaged (re-consulted) at least 1 month prior to any site activities being undertaken once drill sites are known; a map detailing the drilling locations should be provided to the landowners as well as the DMR prior to commencement of prospecting activities. Record must be kept of the implementation of the EMP measures and monitoring of the efficiency of the implemented measures; and a suitable closure plan must be submitted to show sufficiently providence for the avoidance, management and mitigation of environmental impacts associated with the decommissioning of the proposed activities.

25. Period for which the Environmental Authorisation is required.

The authorisation is required for the duration of the prospecting right which is an initial 5 years plus a potential to extend the right by an additional 3 years. Therefore a total period of 8 years is required.

26. 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).

It is confirmed that the requirements under this section is provided in EMPr and is applicable to both the Basic assessment report and the Environmental Management Programme report.

27. Financial Provision

(State the amount that is required to both manage and rehabilitate the environment in respect of rehabilitation).

A financial provision of approximately, **R37230** which includes rehabilitation activities will be made available. The applicant undertakes to provide financial provision through funding from the investors of the Applicant.

CALCULATION OF THE QUANTUM



Gadebe Investment cc

MP 30/5/1/1/2//15613 PR

Applicant:
Evaluator:

Kenneth Singo

Ref No.:
Date:

Jan-20

No.	Description	Unit	A Quantity	B Master Rate	C Multiplication factor	D Weighting factor 1	E=A*B*C*D Amount (Rands)	
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	16	1	1	0	
2 (A)	Demolition of steel buildings and structures	m2	0	228	1	1	0	
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	336	1	1	0	
3	Rehabilitation of access roads	m2	0	41	1	1	0	
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	395	1	1	0	
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	216	1	1	0	
5	Demolition of housing and/or administration facilities	m2	0	455	1	1	0	
6	Opencast rehabilitation including final voids and ramps	ha	0	238 697	1	1	0	
7	Sealing of shafts adits and inclines	m3	0	122	1	1	0	
8 (A)	Rehabilitation of overburden and spoils	ha	0	159131	1	1	0	
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	198 195	1	1	0	
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	575 653	1	1	0	
9	Rehabilitation of subsided areas	ha	0	133249	1	1	0	
10	General surface rehabilitation	ha	0,9	126059	0,01	0,05	56,72655	
11	River diversions	ha	0	126059	1	1	0	
12	Fencing	m	0	144	1	1	0	
13	Water management	ha	0	47931	1	1	0	
14	2 to 3 years of maintenance and aftercare	ha	0	16776	1	1	0	
15 (A)	Specialist study	Sum	0	0	1	1	0	
15 (B)	Specialist study	Sum	0	0	1	1	0	
Sub Total 1							56,72655	
1	Preliminary and General		6,807186		weighting factor 2 1		6,807186	
2	Contingencies			5,672655			5,672655	
Subtotal 2							69,21	
SIGN	Ndinannyi Kenneth Singo						VAT (15%)	37160,87
DATE	2020/01/08						Grand Total	37230

a. Explain how the aforesaid amount was derived.

The drilling contractor will be responsible for rehabilitating the drill pad once the drilling activities have been completed at each exploration hole. The financial guarantee was calculated using the DMR official financial quantum calculator. This information has been provided in the Prospecting Work Programme that was submitted to the DMR.

b. Confirm that this amount can be provided from operating expenditure.

(Confirm that the amount, is anticipated to be an operating cost and is provided for as such in the Mining work programme, Financial and Technical Competence Report or Prospecting Work Programme as the case may be).

Work will be approved on a phase by phase basis, dependent on the results obtained in the previous phase i.e. although prospecting work may be provided for financially in the budget for a specific year, it will only take place if justified. The amount is also reflected in the Prospecting Work Programme submitted to the DMR.

28. Specific Information required by the competent Authority

- a. Compliance with the provisions of sections 24(4)(a) and (b) read with section 24 (3) (a) and (7) of the National Environmental Management Act (Act 107 of 1998). the EIA report must include the:-

1. Impact on the socio-economic conditions of any directly affected person.

(Provide the results of Investigation, assessment, and evaluation of the impact of the mining, bulk sampling or alluvial diamond prospecting on any directly affected person including the landowner, lawful occupier, or, where applicable, potential beneficiaries of any land restitution claim, attach the investigation report as an **Error! Reference source not found.**)

Current land uses inside the prospecting area, such as maize farming, grazing, may be temporarily impacted through the presence of the fenced areas that drill rigs will operate within. These are, however, small areas, approximately 0.9 ha per borehole will be affected. These areas will be rehabilitated post drilling activities and the areas will once again become available for grazing. The current access roads are fenced.

2. Impact on any national estate referred to in section 3(2) of the National

Heritage Resources Act. (Provide the results of Investigation, assessment, and evaluation of the impact of the mining, bulk sampling or alluvial diamond prospecting on any national estate referred to in section 3(2) of the National Heritage Resources Act, 1999 (Act No. 25 of 1999) with the exception of the national estate contemplated in section 3(2)(i)(vi) and (vii) of that Act, attach the investigation report as **Appendix**).

Whilst no heritage resources have been identified within the proposed prospecting area care will be taken to avoid any sensitive heritage resources that may otherwise be identified during the prospecting. Where graves or fossils are identified proposed boreholes will be moved to avoid features of this type. If fossils or graves are discovered, the relevant authorities will be immediately notified and drilling will be stopped in this area. The area does have protected areas, threatened ecosystems or critical biodiversity, however no sensitive parts will be negatively affected by the drilling procedures owing to the small scale of the prospecting activity, the only potential negative impact is related to the proposed borehole sites that will need to be cleared and possibly access roads to some of these sites. These should be placed on previously disturbed land or tracks. Any natural vegetation should be avoided. The location of the boreholes must be done.

29. Other matters required in terms of sections 24(4)(a) and (b) of the Act.

(the EAP managing the application must provide the competent authority with detailed, written proof of an investigation as required by section 24(4)(b)(i) of the Act and motivation if no reasonable or feasible alternatives, as contemplated in sub-regulation 22(2)(h), exist. The EAP must attach such motivation as **Appendix**).

The proposed site was selected based on extensive research and also following on information from previous and current prospecting as well as mining activities around the area. The area is known for coal resources and there are mines currently mining close to the application area. In terms of the technologies proposed, the proposed prospecting has been chosen based on the history and current state of coal in the area. The prospecting activities proposed in the Prospecting Works Programme (PWP) is dependent on the preceding phase as previously discussed, therefore no alternatives are indicated, but rather a phased approach of trusted prospecting techniques.

PART B

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

1) Draft environmental management programme.

a) **Details of the EAP,**

(Confirm that the requirement for the provision of the details and expertise of the EAP are already included in PART A, section 1 (a) herein as required).

Details of EAP are included in PART A section 1(a).

b) **Description of the Aspects of the Activity**

(Confirm that the requirement to describe the aspects of the activity that are covered by the draft environmental management programme is already included in PART A, section (1)(h) herein as required).

It is confirmed that the requirement to describe the aspects of the activity that are covered by the draft environmental management programme is already included in PART A SECTION (1)(h).

c) **Composite Map**

(Provide a map **(Attached as an Error! Reference source not found.)** at an appropriate scale which superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that any areas that should be avoided, including buffers)

Exploration is a temporal activity thus no permanent structures will be erected, however a general layout is enclosed.

d) **Description of Impact management objectives including management statements**

i. **Determination of closure objectives.**

(ensure that the closure objectives are informed by the type of environment described)

The following section details the goals and objectives that applicant will aim to achieve. It includes both a commitment to ensure legal compliance and then highlights the goals and objective for those impacts which are deemed most significant for exploration.

Environmental Legislation

To comply with all environmental legislation. Specific aspects to be adhered to from environmental legislation include.

National Environmental Management Act, Act 107 of 1998 (NEMA)

As the NEMA is the cornerstone of all environmental legislation, the management measures implemented by the applicant will strive to adhere to the principles of NEMA:

- That the disturbance of ecosystems and loss of biological diversity are avoided, or, where they cannot be altogether avoided, are minimised and remedied;
- that pollution and degradation of the environment are avoided, or, where they cannot be altogether avoided, are minimised and remedied;
- that the disturbance of landscapes and sites that constitute the nations cultural heritage is avoided, or where it cannot be altogether avoided, is minimised and remedied;
- that waste is avoided, or where it cannot be altogether avoided, minimised and reused or recycled where possible and otherwise disposed of in a responsible manner;
- that the use and exploitation of non-renewable natural resources is responsible and equitable, and considers the consequences of the depletion of the resource;
- that a risk averse and cautious approach is applied, which considers the limits of current knowledge about the consequences of decisions and actions; and
- that negative impacts on the environment and on people's environmental rights be anticipated and prevented, and where they cannot be altogether prevented, are minimised and remedied.

Environmental management must be integrated, acknowledging that all elements of the environment are linked and interrelated, and it must consider the effects of decisions on all aspects of the environment and all people in the environment by pursuing the selection of the best practicable environmental option.

I. Volumes and rate of water use required for the operation.

No water will be used for drilling purposes, only drinking water will be provided to the site for the employee.

II. Has a water use licence has been applied for?

Since exploration is a temporal activity no WUL is required at prospecting stage. No water use license application has been lodged as there are no water resources that will be affected by the proposed project. The prospecting site is not located above an important groundwater

aquifer. No groundwater will be used or abstracted during the prospecting operations. Clean water for employees will be purchased from the shops.

**III. Impacts to be mitigated in their respective phases
Measures to rehabilitate the environment affected by the undertaking of any listed activity**

ACTIVITIES	PHASE	SIZE AND SCALE of disturbance or	MITIGATION MEASURES	COMPLIANCE WITH STANDARDS	TIME PERIOD FOR IMPLEMENTATION
<p>(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc</p> <p>E.g. For mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p>	<p>(of operations in which activity will take place.</p> <p>State; Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure).</p>	<p>(volumes, tonnages and hectare m²)</p>	<p>(describe how each of the recommendations in herein will remedy the cause of pollution or degradation and migration of pollutants)</p>	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>	<p>Describe the time period when the measures in the environmental management programme must be implemented</p> <p>Measures must be implemented when required.</p> <p>With regard to Rehabilitation specifically this must take place at the earliest opportunity. .With regard to Rehabilitation, therefore state either:-</p> <p>..</p> <p>Upon cessation of the individual activity or.</p> <p>Upon the cessation of mining, bulk sampling or alluvial diamond prospecting as the case may be.</p>
<p>Site Office and core shed</p>	<p>Prospecting Phase 3</p>	<p>N/A</p>	<p>No permanent structures for offices and core shed will be put on site.</p>	<p>N/A</p>	<p>N/A</p>
<p>Accommodation</p>	<p>Prospecting Phase 3</p>	<p>N/A</p>	<p>In order to minimise impacts in the prospecting area, no camp site will be established. All employees will stay outside prospecting area. The employees will drive to the site every day when drilling operations are in progress.</p> <p>A security company may be contracted to protect the drilling equipment overnight or over weekends if the drill contractors have a weekend off.</p>	<p>N/A</p>	<p>N/A</p>

IV Impact Management Outcomes

(A description of impact management outcomes, identifying the standard of impact management required for the aspects contemplated in paragraph ());

ACTIVITY (whether listed or not listed). (E.g. Excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.).	POTENTIAL IMPACT (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc....etc...)	ASPECTS AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational Decommissioning, closure, postclosure)	MITIGATION TYPE (modify, remedy, control, or stop) through (e.g. noise control measures, storm-water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. <ul style="list-style-type: none"> • Modify through alternative method. • Control through noise control • Control through management and monitoring • Remedy through rehabilitation. 	STANDARD TO BE ACHIEVED (Impact avoided, noise levels, dust levels, rehabilitation standards, end use objectives) etc.
Site Office and core shed	Physical surface disturbance	Visual	Post Closure	No construction on site. If need be to utilise existing building and agreement to be done with farmer	Impact avoided
Accommodation	Physical surface disturbance	Visual	Post Closure	No construction on site. If need be to utilise existing building and agreement to be done with farmer	Impact avoided
Site Establishment	Dust and Noise from Vehicles driving in veld to access the proposed drill site	Air	Operation	Noise control Reduce dust by driving slowly. Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Impact controlled SANS10103 NEM:AQA GNR827
Site Establishment	Carbon emissions due to internal	Air	Operation	Ensure vehicles and equipment are maintained.	Impact controlled NEM:AQA GNR827

	combustion of fuel				
Drilling	Noise	Environmental nuisance	Operation	Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Impact controlled
Drill site	Removal of top soil for sump. Drainage surface disturbance	Biodiversity loss	Operations and Post Closure	<p>Revegetation needs to take place with topsoil that has the surrounding vegetation seedbanks.</p> <p>Badly damaged areas shall be fenced in to enhance rehabilitation. Areas to be rehabilitated must be planted with a mixture of local pioneer species indigenous to the area, as soon as the new growing season starts.</p> <p>To get the best results in a specific area, it is a good idea to consult with a vegetation specialist officer of the Dept of Agriculture or the local extension. Seed distributors can also give valuable advice as to the mixtures and amount of seed necessary to seed a certain area.</p> <p>Re-seeding, as well as fencing in of badly damaged areas, will always be at the discretion of the Environmental Control Officer and in compliance with EMP.</p>	Impact controlled
Drill Site	Dust	Air pollution	Operation	Put dust control measures	Impact controlled
Drilling	Use of drilling mud during drilling operations	Ground water contamination	Operation and Post Closure	Put control measures	Impact controlled
Drilling	Failure of drill sludge control system	Surrounding environment, Ground water contamination	Operation	Establish EMP procedures to minimise hydrocarbon spills.	Impact controlled
Drilling	Breakdown of machinery, oil spillages	Surrounding environment and water contamination	Operation	Establish EMP procedures to minimise hydrocarbon spills.	Impact controlled

V Impact Management Actions

(B description of impact management actions, identifying the manner in which the impact management objectives and outcomes contemplated in paragraphs (c) and (d) will be achieved).

ACTIVITY whether listed or not listed. (E.g. Excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.).	POTENTIAL IMPACT (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc....etc...)	MITIGATION TYPE (modify, remedy, control, or stop) through (e.g. noise control measures, storm-water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. • Modify through alternative method. • Control through noise control • Control through management and monitoring Remedy through rehabilitation.	TIME PERIOD FOR IMPLEMENTATION Describe the time period when the measures in the environmental management programme must be implemented Measures must be implemented when required. With regard to Rehabilitation specifically this must take place at the earliest opportunity. .With regard to Rehabilitation, therefore state either:-.. Upon cessation of the individual activity or. Upon the cessation of mining, bulk sampling or alluvial diamond prospecting as the case may be.	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations in 2.11.6 read with 2.12 and 2.15.2 herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
Site Office and core shed	Physical surface disturbance	No construction on site. If need be to utilise existing building and agreement to be done with farmer	N/A	N/A
Accommodation	Physical surface disturbance	No construction on site. If need be to utilise existing building and agreement to be done with farmer	N/A	N/A

Site Establishment	Dust and Noise from Vehicles driving in veld to access the proposed drill site	Noise control Reduce dust by driving slowly. Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Ongoing during activity	Applicant will ensure that all employees, contractors, visitors comply with the EMP
Site Establishment	Carbon emissions due to internal combustion of fuel	Ensure vehicles and equipment are maintained.	Ongoing during activity	Applicant will ensure that all employees, contractors, visitors comply with the EMP
Drilling	Noise	Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Ongoing during activity	Applicant will ensure that all employees, contractors, visitors comply with the EMP
Drill site	Removal of top soil for sump. Drainage surface disturbance	Rehabilitate ground soon after drilling.	Upon cessation of individual activity	Applicant will ensure that all employees, contractors, visitors comply with the EMP
Drill Site	Dust	Put dust control measures	Ongoing during activity	Applicant will ensure that all employees, contractors, visitors comply with the EMP
Drilling	Use of drilling mud during drilling operations	Put control measures	Ongoing during activity	Applicant will ensure that all employees, contractors, visitors comply with the EMP
Drilling	Failure of drill sludge control system	Establish EMP procedures to minimise hydrocarbon spills.	Ongoing during activity	Applicant will ensure that all employees, contractors, visitors comply with the EMP
Drilling	Breakdown of machinery, oil spillages	Establish EMP procedures to minimise hydrocarbon spills.	Ongoing during activity	Applicant will ensure that all employees, contractors, visitors comply with the EMP

30. Financial Provision

(1) Determination of the amount of Financial Provision.

(a) Describe the closure objectives and the extent to which they have been aligned to the baseline environment described under the Regulation.

For a prospecting operation such as this, the primary closure and environmental objectives are to:

- Minimise the area to be disturbed and to ensure that the areas disturbed during the prospecting activities are rehabilitated and stable, as per the commitments made in the EMP.
- Sustain the pre-prospecting land use.
- To record and communicate the results of the monitoring programme during decommissioning to the participating stakeholders.
- To receive an effective closure certificate (should the prospect indicate that the resource(s) would not support a sustainable mining operation).

(b) 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 were consulted with affected parties. It was explained that should the prospecting yield negative results, then the end use for area will revert to its pre-prospecting land use. The end-use of the area will therefore not be changed by the prospecting operations. However, should the prospecting operation yield positive results, then the farm could be subject to a mining rights application and another more comprehensive Public Participation, Scoping, EIA and EMP process. If a mining right is granted then the area will be rehabilitated according to the requirements of the approved Environmental Management Programme that would apply throughout the life of the mine.

(c) Provide a rehabilitation plan that describes and shows the scale and aerial extent of the main mining activities, including the anticipated mining area at the time of closure.

The activities involved are for prospecting and will involve no permanent removal of soil and rock. Should the prospecting yield negative results, then the end use for area will revert to its pre-prospecting land use. The end-use of the area will therefore not be changed by the prospecting operations. However, should the prospecting operation yield positive results, then the farm could be subject to a mining rights application and another more comprehensive Public Participation, Scoping, EIA and EMP process. If a mining right is granted then the area will be rehabilitated according to the requirements of the approved Environmental Management Programme that would apply throughout the life of the mine.

Table 6: Rehabilitation plan.

Aspect / Impact	Rehabilitation Measure	Monitoring Frequency & Responsibility
Removal of construction structures	<ul style="list-style-type: none"> • Clear and completely remove from site all construction plant equipment, storage containers, signage, temporary fencing, temporary services, fixtures and any other temporary works (excluding those already on the site); and • Ensure that all access roads utilised during construction (which are not earmarked for closure and rehabilitation) are returned (as far as possible) to their state prior to construction. 	Once off, Applicant
Vegetation clearing/uprooting	<ul style="list-style-type: none"> • Remove any emerging alien and invasive vegetation to prevent further establishment; • All planting work is to be undertaken by suitably qualified personnel making use of the appropriate equipment; • Transplant during the winter (between April and September); and • Plant indigenous plants to minimise the spread of alien and invasive vegetation. 	When revegetation is done and in blooming season, Applicant

Topsoil replacement	<ul style="list-style-type: none"> • Replace and redistribute stockpiled topsoil together with herbaceous vegetation, overlying grass and other fine organic matter in all disturbed areas of the prospecting site, including temporary access routes and roads. Replace topsoil to the original depth (i.e. as much as was removed prior to construction). • Prohibiting the use of topsoil suspected to be contaminated with the seed of alien vegetation .Alternatively, the soil is to be sprayed with specified herbicides. • Backfill planting holes with excavated material / approved topsoil, thoroughly mixed with weed free manure or 	Once off, Applicant
	compost (per volume about one quarter of the plant hole), one cup of 2:3:2 fertiliser and an approved ant and termite poison.	
Waste and Rubble Removal	<ul style="list-style-type: none"> • Clear the site of all inert waste and rubble, including surplus rock, foundations and batching plant aggregates. • Remove from site all domestic waste and dispose of in the approved manner at a registered waste disposal site. 	Once off, Applicant
Solid & Hazardous Waste	<ul style="list-style-type: none"> • Environmental Management Programme (EMPR). • Dispose of all hazardous waste not earmarked for reuse, recycling or resale at a registered hazardous waste disposal site. • Remove from site all temporary fuel stores, hazardous substance stores, hazardous waste stores and pollution control sumps. Dispose of hazardous waste in the approved manner. • Do not hose oil or fuel spills into a storm water drain or sewer, or into the surrounding natural environment. • Dispose of all visible remains of excess cement and concrete after the completion of tasks. Dispose of in the approved manner (solid waste concrete may be treated as inert construction rubble, but wet cement and liquid slurry, as well as cement powder must be treated as hazardous waste). 	Once off, Applicant

Erosion protection	<ul style="list-style-type: none"> • Protect all areas susceptible to erosion and ensure that there is no undue soil erosion resultant from activities within and adjacent to the construction site. • Retain shrubbery and grass species wherever possible. • Perform regular monitoring and maintenance of erosion control measures. 	After rainfall events
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(d) Explain why it can be confirmed that the rehabilitation plan is compatible with the closure objectives.

The amount for rehabilitation is anticipated to be an operating cost and provided for in the Prospecting Work Programme. Drill site rehabilitation will be undertaken by the contract drilling company on completion of every borehole. This will include:

- The removal of all wastes generated on-site by the drilling activity.
- Backfilling of sumps, where applicable
- The ripping of cleared and compacted soils where this may have occurred; and
- The re-contouring of drill sites to resemble the topography similar to that prior to the commencement of drilling activities
- Take photos of the site before prospecting commences and after prospecting


(e) Calculate and state the quantum of the financial provision required to manage and rehabilitate the environment in accordance with the applicable guideline.

The quantum of the financial provision required is therefore: **R37230** The Company must annually update and review the quantum of the financial provision (*Regulation 54 (2)*).TABLE FOR CALCULATIONS ATTACHED BELOW

(f) Confirm that the financial provision will be provided as determined.

Applicant undertakes to provide financial provision and a Bank Guarantee will be the method of providing for the financial provision. The amount is anticipated to be an operating cost and provided for in the Prospecting Work Programme.

Table 7: Quantum Calculation

CALCULATION OF THE QUANTUM							
Gadebe Investment cc				 Singo Consulting (Pty) Ltd MP 30/5/1/1/2//15613 PR			
Applicant:	Kenneth Singo			Ref No.:	Jan-20		
Evaluator:				Date:			
No.	Description	Unit	A Quantity	B Master Rate	C Multiplication factor	D Weighting factor 1	E=A*B*C*D Amount (Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	16	1	1	0
2 (A)	Demolition of steel buildings and structures	m2	0	228	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	336	1	1	0
3	Rehabilitation of access roads	m2	0	41	1	1	0
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	395	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	216	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	455	1	1	0
6	Opencast rehabilitation including final voids and ramps	ha	0	238 697	1	1	0
7	Sealing of shafts adits and inclines	m3	0	122	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0	159131	1	1	0
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	198 195	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	575 653	1	1	0
9	Rehabilitation of subsided areas	ha	0	133249	1	1	0
10	General surface rehabilitation	ha	0,9	126059	0,01	0,05	56,72655
11	River diversions	ha	0	126059	1	1	0
12	Fencing	m	0	144	1	1	0
13	Water management	ha	0	47931	1	1	0
14	2 to 3 years of maintenance and aftercare	ha	0	16776	1	1	0
15 (A)	Specialist study	Sum	0	0	1	1	0
15 (B)	Specialist study	Sum	0	0	1	1	0
Sub Total 1							56,72655
1	Preliminary and General		6,807186	weighting factor 2			6,807186
						1	
2	Contingencies					5,672655	5,672655
Subtotal 2							69,21
SIGN	Ndinanyi Kenneth Singo			VAT (15%)			37160,87
DATE	2020/01/08			Grand Total			37230

g) Mechanisms for monitoring compliance with and performance assessment against the environmental management programme and reporting thereon, including

- h) **Monitoring of Impact Management Actions**
- i) **Monitoring and reporting frequency**
- j) **Responsible persons**
- k) **Time period for implementing impact management actions**
- l) **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 (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 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 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

h) Indicate the frequency of the submission of the performance assessment/ environmental audit report.

Environmental audit report will be submitted annually.

i) Environmental Awareness Plan

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

All employees must 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 should be provided with environmental awareness training before prospecting operations start. All new employees should be provided with environmental awareness training. Induction courses will be provided to all employees by a reputable trainer.

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

No risks have been identified other than those that have been identified within this document, these are to be communicated to all contractors and all contractors are to be provided with a copy of the approved EMP. Environmental training needs for each section should be identified and addressed to ensure environmental management is part of day to day operations. The environmental risk responsibilities guide the training requirements of each individual. The responsibility for each level of management according to the Integrated Risk Management and ISO14001 role descriptions are. Environmental training recommended for the different levels of management guide the training needs identification process. This is a minimum guideline and any additional training can be added where section specific issues or high risk items require training and awareness. It is the responsibility of the line manager to ensure environmental training needs for individual staff members are identified, agreed to, facilitated and tracked.

j) Specific information required by the Competent Authority

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

The financial provision will be reviewed annually indicating work that would have been completed and money used for rehabilitation as required by the law.

2) 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
- 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.

Signature of the environmental assessment practitioner:

SINGO CONSULTING (PTY) LTD

Name of company:

07 January 2020

Date:

-END-

APPENDIX A: DMR LETTERS



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

Private Bag X7279, Witbank, 1035, Saveways Centre, First Floor, Mandela Drive, Emalahleni,
Tel: 013 653 0500, Fax 013 690 3288 Reference: MP 30/5/1/1/2/15613 PR

REGISTERED MAIL

Gadebe Investments (Pty) Ltd
P Bag x7214
Postnet Suite 125
Witbank
1032

EMAIL: rudzani@singoconsulting.co.za

Gentlemen / Ladies

ACKNOWLEDGMENT OF AN APPLICATION FOR AN ENVIRONMENTAL AUTHORIZATION FOR PROSPECTING RIGHT LODGED IN TERMS OF REGULATION 16 OF THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014 AS AMENDED (HEREIN REFERRED TO AS THE EIA REGULATIONS).

1. Your application for an Environmental Authorization lodged on the 5th August 2019 together with your application for a Prospecting Right is acknowledged;
2. You are hereby kindly advised that this application was subject to an acceptance of the application for a Prospecting Right lodged in terms of the provisions of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002) as amended (the MPRDA) as per regulation 16(1)(b)(ix) of the EIA Regulations.
3. Your Prospecting Right application has been accepted on the 30th October 2019 and **submission of the Basic Assessment Report (BAR) is required within 90 days from the acceptance of your application.**
4. Should you fail to submit the required reports as required in terms of the EIA Regulation, this application will lapse and office will accordingly close the file.

Yours Faithfully

A handwritten signature in black ink, appearing to be 'A. J. ...', written over a circular stamp or seal.

ACTING REGIONAL MANAGER
MPUMALANGA REGION
DATE: 30 October 2019



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

Private Bag X 7279, Witbank, 1035, Saveways Centre, First Floor, Mandela Drive, Witbank, 1035 Tel (013) 6530500, Fax (013) 6903288
Reference: MP 30/5/1/1/2/ **15613 PR** Enquiries: Ms. Prisca Maluleka Email address: prisca.maluleka@dmr.gov.za.

REGISTERED MAIL
THE TRUSTEE/S

GADEBE INVESTMENTS CC

P/BAG X 7214

POSTNET SUITE 125

WITBANK

1032

ATT: Singo Kenneth Ndinannyi

FAX NO. 086 514 4103

Dear Sir/Madam

APPLICATION FOR PROSPECTING RIGHT IN TERMS OF SECTION 16 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 AS AMENDED BY SECTION 12 OF ACT 49 OF 2008, AS AMENDED: BY GADEBE INVESTMENTS CC TO PROSPECT FOR COAL AND GRAVEL, SITUATED IN THE MAGISTERIAL DISTRICT OF DELMAS.

1. This is to inform you that your application for a prospecting right is accepted in terms of section 16 (2) of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002) ("Act") as amended by Section 12 (b) of the Act.
2. Please note that in terms of S 16 (4) of the Act as amended by Section 12 (d) (a) and 12 (d) (b) of the Amendment Act, you are required to:
 - 2.1 Submit to this office the required environmental reports and documents as stipulated in your acknowledgement of receipt of an environmental authorisation in this regard.

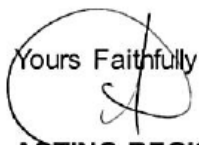
Application of a prospecting right in terms of Section 16 of MPRDA, 2002 (Act 28/2002) by Gadebe Investments CC, Situated in the Magisterial District of Delmas, Ref No. MP 15613 PR.

2.2 In light of the minimum requirements as stipulated on Regulation 16 (1) and 16(2) of the EIA Regulations, your application for an Environmental Authorisation was incomplete as it was not accompanied by this acceptance letter as per Sub Regulation 16(1)(ix) and considering that it is now completed by this acceptance letter, you are hereby required to submit the documents as stipulated on Regulation 19 (1) to 19(8) of the EIA Regulations (Only in cases where Basic Assessment Report is applicable) or Regulations 21 (Scoping Report) and Regulation 23 (EIR and EMPr) (In case of Scoping and Environmental Impact Report). All timeframes are effective from the date of this letter.

3. Notify and consult with the land owner(s) or lawful occupier(s) and all interested and affected parties (I & AP) and upload on the system the results of such consultation must be submitted 30 days from the date of this letter.
4. **Please be advised that this acceptance letter pertains to commodity Coal and Gravel on Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR. Further be informed that portion 14 the farm Goedgedacht 228 IR is excluded from this application on a ground that there is prior accepted application pending a decision to either grant or refuse.**
5. You are advised to submit on or before the 31 of November 2019 the following document(s):
 - 5.1. Detailed financial statements of your company;
 - 5.2. A detailed prospecting work programme which exclude Portion 1 of the farm Goedgedacht 228 IR.
 - 5.3. A title deed in respect of the properties for which the prospecting right is applied or

- 5.4. A confirmation letter from Rural Development and Land Reform, if the land is state-owned, stipulating that the land is state-owned; and,
- 5.5. A signed and dated sketch plan that complied with the requirements of regulation 2(2) aligned with this acceptance letter In relation to the properties accepted.

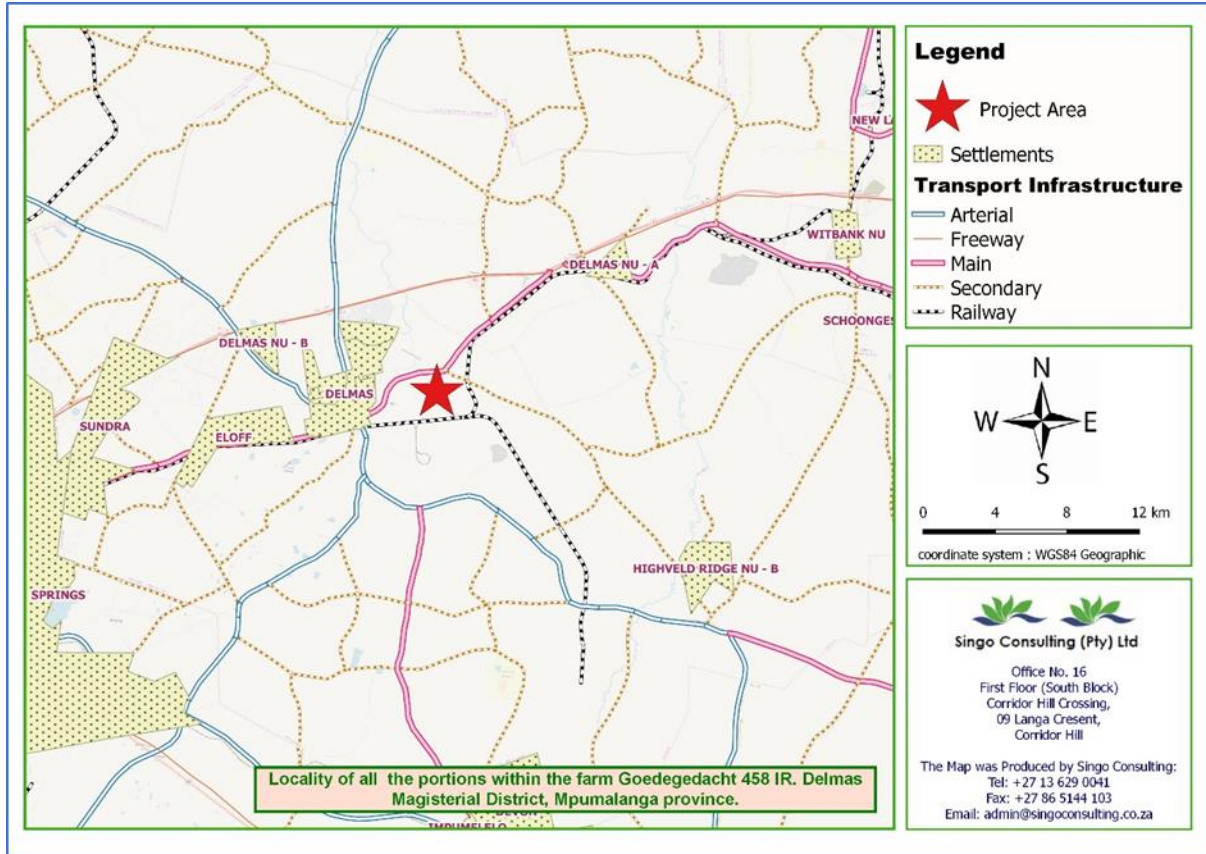
6. You are further advised to consult the Department of Land Affairs and Land Claims Commission, should the land be state owned or be subject of a land claim in terms of the Land Restitution Act and the results of their responses be dealt with as referred to in paragraph 2 (c).
7. You are in terms of Section 17 (1) of the Act as amended by Section 13 (c) of the Amendment Act required to give effect to the objects referred to in Section 2 (d) of the Act. The entity is said to be 100% black owned, therefore you are advised to submit share certificate regarding his aspect.
8. A prospecting right will only be granted once the Environmental Authorization has been issued.

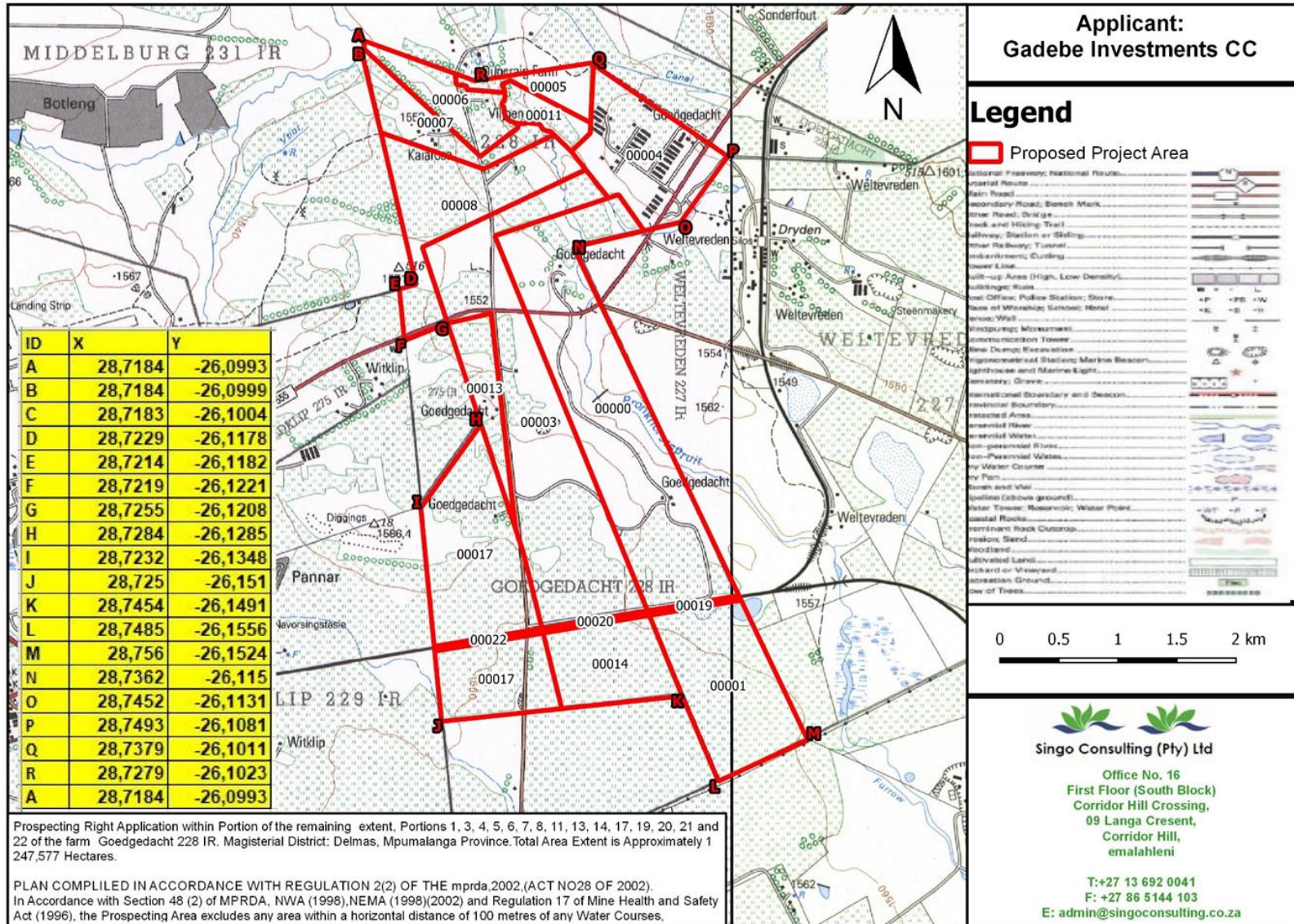
Yours Faithfully


**ACTING REGIONAL MANAGER: MINERAL REGULATION
MPUMALANGA REGION**

DATE: 30/11/2019

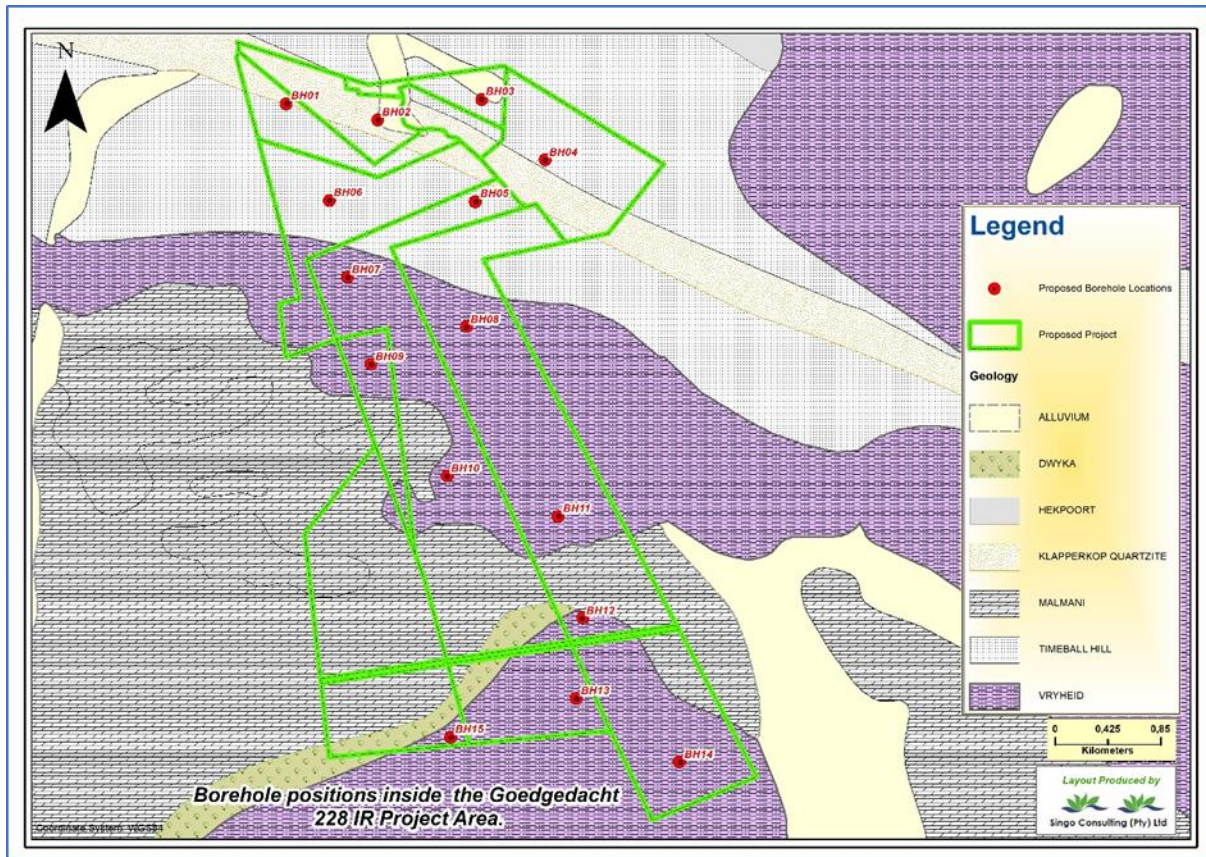
APPENDIX B: Maps for the project

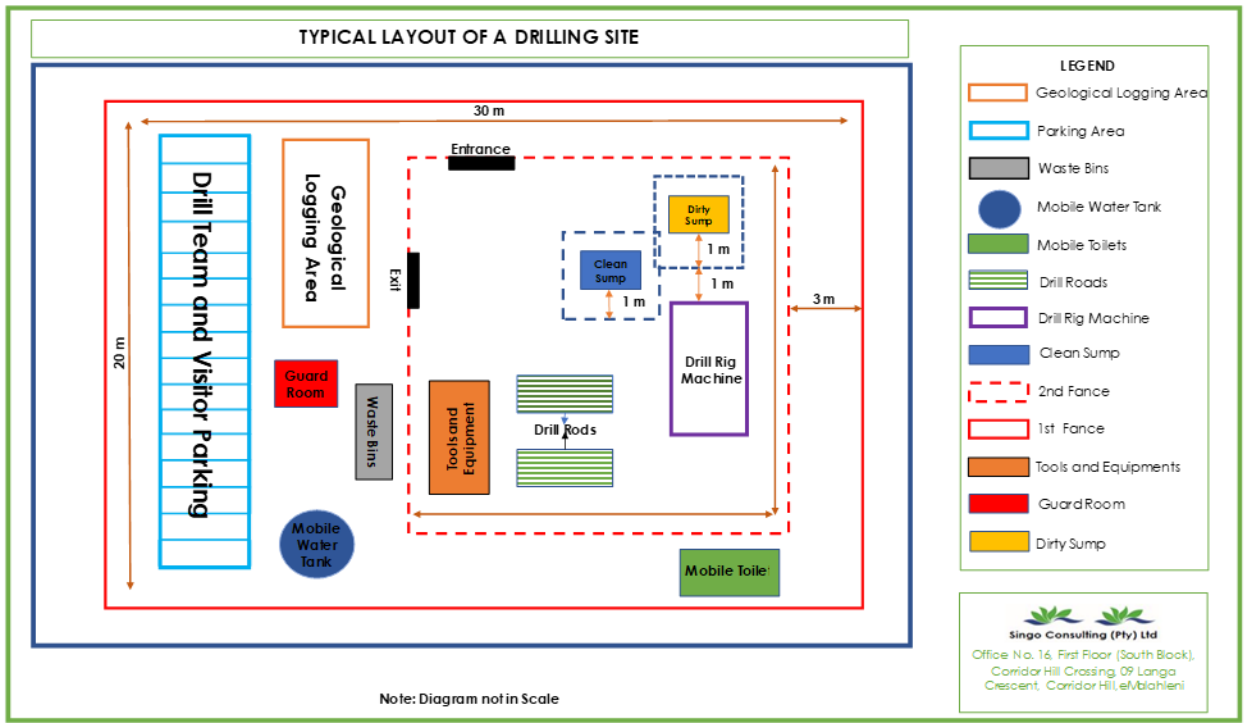




Prospecting Right Application within Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goegedacht 228 IR, Magisterial District: Delmas, Mpumalanga Province. Total Area Extent is Approximately 1 247,577 Hectares.

PLAN COMPILED IN ACCORDANCE WITH REGULATION 2(2) OF THE mprda.2002.(ACT NO28 OF 2002).
In Accordance with Section 48 (2) of MPRDA, NWA (1998), NEMA (1998)(2002) and Regulation 17 of Mine Health and Safety Act (1996), the Prospecting Area excludes any area within a horizontal distance of 100 metres of any Water Courses,





APPENDIX C: Background Information Document

BACKGROUND INFORMATION DOCUMENT

Proposed Prospecting Right Application on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR

DELMAS MAGISTERIAL DISTRICT, MPUMALANGA

Prepared by:



Singo Consulting (Pty) Ltd

Prepared for:

Gadebe Investments CC

INTRODUCTION AND THE PURPOSE OF THIS DOCUMENT

Singo Consulting (Pty) Ltd has been appointed as an independent Environmental Consultant by **Gadebe Investments CC** to conduct Environmental Impact Assessment (EIA), Compile an Environmental Management Plan (EMP) and undertake Public Participation Process (PPP). This is done for processes of acquiring Environmental Authorization for the proposed Prospecting Right application on the Farm **Goedgedacht 228 IR**, situated in the Local Municipality of Victor khanye, under Delmas Magisterial District, Mpumalanga Province. **DMR REF: MP 30/5/1/1/2//15613 PR.**

The Purpose of this Background Information Document (BID) is to provide a perfunctory description of the project and outline EIA processes to be followed and contributions from Interested and Affected Parties (IAPs) on the issues related to the project in question, allowing comments and concerns to be raised.

Results of the EIA, both negative and positive will be submitted and made available to the relevant Departments such as the Department of Mineral Resources and if requested, Environmental Affairs, Water and Sanitation, Landowners and other interested stakeholders.

This Background Information Document therefore requests and invite IAPs to comment on the environmental, physical, social and economic impacts associated with the proposed Prospecting Activities. Be assured that your comments are of great value as they ensure that relevant issues are taken into consideration.

Attached at the end of this document is a registration form, kindly complete it and send it back to **Livhuwani Sigwadi** through the contact details provided on the last page.

PROJECT DESCRIPTION

Prospecting Right Application has been submitted for the prospecting of **Coal and Gravel** on the farm **Goedgedacht 228 IR.**

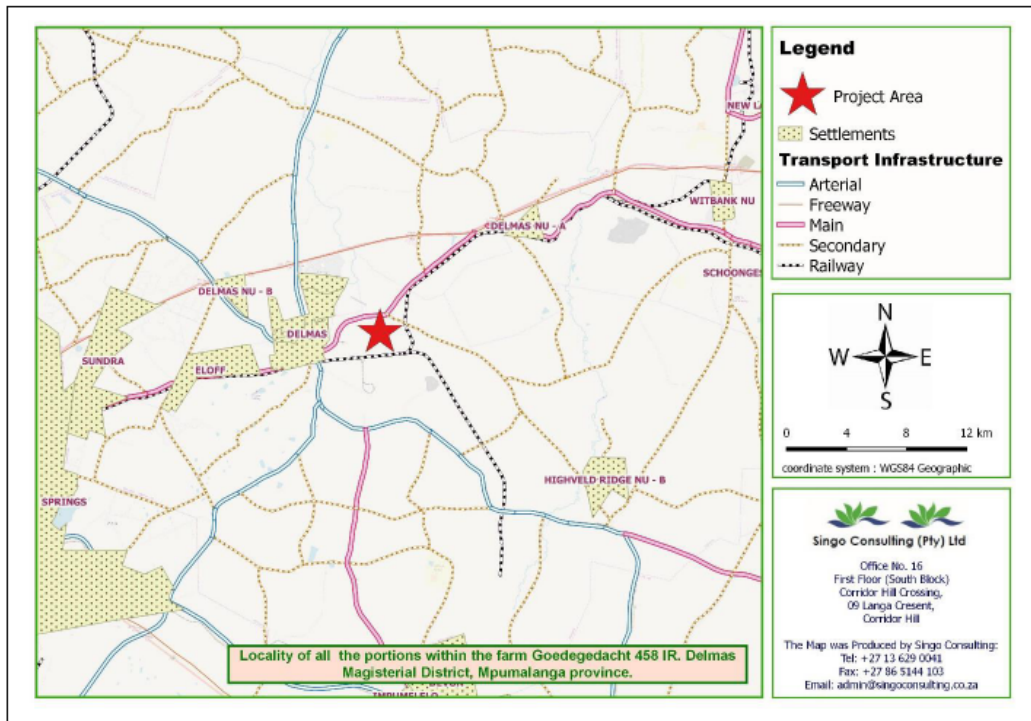


FIGURE 1: MAP ILLUSTRATING THE PROPOSED PROJECT AREA.

BASIC AND ENVIRONMENTAL IMPACT ASSESSMENT PROCESSES

These are planning and decision-making tools used in identifying potential environmental, economic and social consequences of a proposed activity prior the commencement of the activity.

These together with the public issues and concerns are to be identified sufficiently early so that they can be assessed and incorporated into the final reports when/if necessary.

These tools are regarded crucial because they are utilized in order to demonstrate to the relevant stakeholders about the potential impacts, which in turn leads to the Mining application process being a success or declined.

PUBLIC PARTICIPATION PROCESS

Public Participation remains a cornerstone of the Environmental Impact Assessment process. It ensures provision of relevant and enough information with openness and transparency. Public Participation process presents to IAPs, an opportunity to understand what the project is about, and affords them an opportunity to make valuable contributions towards the EIA process.

IAP can be any person, group of persons or organization interested in or affected by the proposed activity, and any organ of state that may have jurisdiction over any aspect of the activity.

The key objective of PPP during the Scoping phase is to afford the IAPs with an opportunity to comment and provide valuable inputs during the planning phase of the project.

For this specific proposed project, IAPs will be given a period of 30 days to comment and raise issues/concerns with regards to the proposed project.

Kindly keep the following dates:

- ❖ Announcement of the Prospecting Right Application: **30 November 2019**
- ❖ Stakeholder engagement and consultation: **14 November- 14 December 2019**
- ❖ Review of Draft Basic Assessment Report: **07 January 2020- 05 February 2020.**
- ❖ Submission of the Final EMP: **07 February 2020**

The report will be available at **Delmas Local Library (31 Sarel Cilliers Street)** and on request, via Email from the respective EAP.

APPENDIX D: Landowners consultation and their responses

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Wednesday, 27 November 2019 10:26

To: ldlewild@ballmail.co.za

Cc: kenneth@singoconsulting.co.za; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; admin@singoconsulting.co.za; siyabonga@singoconsulting.co.za; sithabile@singoconsulting.co.za; mutshidzi@singoconsulting.co.za; owen@singoconsulting.co.za; kefilwe@singoconsulting.co.za

Subject: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT OF THE REMATHE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Good day,

I hope this email finds you well.

Kindly note that this email is informing you as Interested and Affected Party of the proposed project of Coal Prospecting Right to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR. Situated under Magisterial District of Delmas, Mpumalanga Province. Singo consulting Pty Ltd on behalf of Gadebe Investments CC is currently conducting an Environmental Impact Assessment and public participation process.

Gadebe Investments CC has applied for a Prospecting Right together with the application for Environmental Authorization to the Mpumalanga Department of Mineral Resources for the Coal exploration to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR.

This notification is given in compliance with the terms of the following Acts: Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA), National Environmental Management Act, 1998 (Act No. 107 of 1998), and EIA Regulations (as amended, 07 April 2017) which requires that stockholders to be notified of Gadebe Investments CC's intention to obtain a Prospecting Right to establish the proposed Coal Exploration.

Please find the attached Background Information Document. Landowner Letter and Windeed for the brief description of the proposed project.

Please note that timelines for this project are highlighted on the attached BID.

Regards,

Livhuwani Sigwadi
Junior Consultant

B.Sc. (Hons)
Environmental Management

+27 13 692 0041
+27 76 652 9062
+27 86 514 4103

www.singoconsulting.co.za
livhuwani@singoconsulting.co.za
09 Langa Crescent, Corridor Hill Crossing
First Floor (South Block), Office No. 16, eMalaheni

Singo Consulting (Pty) Ltd

From: Idlewild Farm <driver@ballmail.co.za>

Sent: Thursday, 28 November 2019 10:07

To: idlewild@ballmail.co.za

Cc: livhuwani@singoconsulting.co.za

Subject: RE: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT OF THE REMATHE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Importance: High

From: idlewild@ballmail.co.za [<mailto:idlewild@ballmail.co.za>]

Sent: Wednesday, November 27, 2019 11:04 AM

To: 'Driver'

Subject: FW: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT OF THE REMATHE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Kind Regards,

Mark W Driver
0829000974



Singo Consulting (Pty) Ltd

- 09 Langa Crescent, Corridor Hill Crossing, First Floor (South Block) Office No. 16, eMalaheni
- kenneth@singoconsulting.co.za
- www.singoconsulting.co.za
- +27 13 692 0041
- +27 86 514 4103

Dear Landowner:

PROSPECTING RIGHT APPLICATION FOR THE PROPOSED COAL, IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE DMR REF. NO.: MP 30/5/1/1/2/12710 PR.

Singo Consulting (Pty) Ltd on behalf of Gadebe Investments cc wishes to inform you about the prospecting of the above-mentioned resources on your land on GEODGEDACHT 228 IR ON PORTION OF THE REMAIN EXTENT PORTIONS 1, 3,4,5,6,7,8,11,13,14,17, 19, 20, 21 AND 22. Gadebe Investments cc have applied for Prospecting Right together with the Environmental Authorizations (EA) in terms of Section 16 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA), on GEODGEDACHT 228 IR ON PORTION OF THE REMAIN EXTENT PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 AND 22, situated in the Local Municipality of Victor khanye, Mpumalanga Province.

Singo Consulting (Pty) Ltd has been appointed as an independent Environmental Assessment Practitioner (EAP). We are conducting a Basic Assessment process, if you have any comment(s) concerning the proposed project or terms and conditions you want to lay down, kindly fill the comment form below and register your comments.

Kindly note that as a landowner your comments are critical in decision making at DMR concerning the proposed project. Should you have any queries regarding the proposed project, please do not hesitate to contact me.

Kind Regards



Singo Consulting (Pty) Ltd

Office No. 16, Corridor Hill Crossing
09 Langa Crescent, Corridor Hill
eMalaheni
1035.
Tell No.: +27 13 6920 041
Fax No.: +27 86 5144 103
Cell No.: 076 652 9062
Email: livhuwani@singoconsulting.co.za

Gadebe Investments cc

1686 Magaliesberg Country Estate
Longmore Street
Pretoria North
1803
Tel No: 081 412 8530
Email: dihloma@gmail.com



1. What is your interest in the proposed project? E.g. Property Owner/ Lessee/ Tenant? Please provide details of the property.

Property Owner

2. Do you have grounds for concerns in respect to this application? Please tick the appropriate box and substantiate.

 YES

 NO

3. Categorized issues of concerns: Please "X" the appropriate box

<input checked="" type="checkbox"/> Air quality	<input checked="" type="checkbox"/> Noise
<input type="checkbox"/> Archaeology	<input type="checkbox"/> Soil
<input type="checkbox"/> Surface water	<input type="checkbox"/> Employment
<input checked="" type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Security
<input type="checkbox"/> Ecology	<input checked="" type="checkbox"/> Visual
<input type="checkbox"/> Land use and Planning Waste management	<input type="checkbox"/> Quality of life Property value
<input type="checkbox"/> Economy	<input type="checkbox"/> Nuisance

4. If yes, please list elaborate further.

Concerned about the above matters



I, M.W. Driver herewith acknowledge receipt of:

One (1) copy of the letter entitled: PROSPECTING RIGHT APPLICATION IN GEODGEDACHT 228 IR ON PORTION OF THE REMAIN EXTENT PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 AND 22, SITUATED IN THE LOCAL MUNICIPALITY OF VICTOR KHANYE, MPUMALANGA PROVINCE.

Please comment and return to:

Physical address:	Office No. 16, First Floor (South Block), Corridor Hill Crossing, 09 Langa Crescent Corridor Hill, eMalaheni, 1035.
Postal address	P/Bag X7297 Postnet Suite 87 Highveld Mall Witbank 1035
Tell No:	+27 13 6920 041
Cell No:	+27 82 767 4011
Fax No:	+27 86 5144 103
Email:	admin@singoconsulting.co.za kenneth@singoconsulting.co.za livhuwani@singoconsulting.co.za

Personal Details:

Full Names and Surname:		Mark William Driver			
Contact Details:					
Tel(w):		Tel(h):	Fax No:	Cell No:	082 900 5497
Email: driver@ballmail.co.za / lidlewild@ballmail.co.za					
Physical Address:	Portion 21 of the farm Wilkopies, Olifantsfontein 1666				
Postal Address:	P.O. Box 5378, Rietvalleirand 0174				
Preferred method of communication: fax <input type="checkbox"/> e-mail <input checked="" type="checkbox"/> post <input type="checkbox"/>					
Preferred telephonic communication: cell <input checked="" type="checkbox"/> home <input type="checkbox"/> work <input type="checkbox"/>					
Organisation/Representative:		M.W. Driver			
Farm name, number and subdivision or Street Address (if applicable):		Shannon Partners PTY LTD Portion 10 of the farm Goedgedacht 228 IR Delmas 2210 Farm Goedgedacht 228 PTY LTD			



5. Are there, in your opinion, any other interested/ or affected parties that should be contacted in relation to this application? Please 'X' appropriate box.

YES

NO

6. If yes, please provide their contact details:

Name:		Organization:	
Contact details			
Address:			
Tel No:		Fax No:	Cell No:
Email address:			

SIGNATURE:

M.W. Driver

DATE:

28/1/19

THANK YOU



From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Thursday, 16 January 2020 10:22

To: 'Idlewild Farm' <driver@ballmail.co.za>

Cc: 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>

Subject: RE: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT OF THE REMATHE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Hi Mark William Driver,

I hope you still well,

Please receive a draft BAR for the proposed prospecting right application for Coal and gravel to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR.

Find a comment form on the last page of BID attached above

Please forward your comment to Sigwadi Livhuwani via email before 05 February 2020.

Regards,

Livhuwani Sigwadi
Junior Consultant



B.Sc. (Hons)
Environmental Management

- +27 13 692 0041
- +27 76 652 9062
- +27 86 514 4103

- www.singoconsulting.co.za
- livhuwani@singoconsulting.co.za
- 09 Langa Crescent, Corridor Hill Crossing
First Floor (South Block), Office No. 16, eMalahleni



Proof of Meeting done with the landowner in his farm (F. I. Lobbery)



Singo Consulting (Pty) Ltd

Horris

SINGO CONSULTING (PTY) LTD
 Meeting venue: *FARM Gsoogedelen*
 Date: *20/11/2019*
 Time: *9H30*

ATTENDANCE REGISTER						
No.	Name & Surname	Designation	Company/LandOwner/Other (Specify)	Contact Details	Email Address	Signature
1	<i>F. I. Lobbery</i>	<i>Landowner</i>	<i>MHO Prop</i>	<i>0823448333</i>	<i>hoffman@protract.co.za</i>	<i>[Signature]</i>
2	<i>Sethoanani</i>	<i>Consultant</i>		<i>0786437677</i>		<i>[Signature]</i>
3	<i>Seoane</i>	<i>Consultant</i>		<i>0825248048</i>		
4	<i>Siywadi Mashigo</i>	<i>Consultant</i>	<i>Singo - C</i>	<i>0766525066</i>	<i>lithwana@SingoConsulting.co.za</i>	<i>[Signature]</i>
5			<i>Singo Consulting</i>	<i>0791778410</i>	<i>Sy-bonga@SingoConsulting.co.za</i>	<i>[Signature]</i>
6						
7						
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Prospecting Right Application for Coal and gravel to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR.

Land owner Meeting: **F. I. Lobbery**

Matter of the day

INTRODUCTION		
<ul style="list-style-type: none"> ➤ Introduced the team that was representing Singo Consulting (Pty) Ltd, Singo. 		
PRESENTATION		
<ul style="list-style-type: none"> ➤ Explained the Prospecting Right (PR) and how it will affect the applied property ➤ Explained the activities involved in a PR. ➤ Gave a description of the locality of the project. ➤ Explained the timeframes for the project. 		
Questions and Answers (DONE BY DR KENNETH SINGO)		
Issue raised	Response	Actions
Andre: <ul style="list-style-type: none"> ➤ I bought the land from exxaro ➤ Exxaro sold this land because there is no coal ➤ I use this land for farming (cultivation and stock farming) 	Noted, our client wants to prove himself by drilling, mapping and analysed the drilling cores. Prospecting right application will not going to replace a current land use.	Noted
WAY FORWARD		
<ul style="list-style-type: none"> ➤ Please fill the comment form and send back to the emails provided on the comment form. ➤ Please send me a Draft BAR once is out 		
CLOSURE		
<ul style="list-style-type: none"> ➤ Thanked the land owner for giving us time to explain basic information about the proposed Prospecting Right Application 		
End-of-Minutes		



APPENDIX E: Stakeholder's Engagement.

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Tuesday, 19 November 2019 10:37

To: 'wayleavesmou@eskom.co.za' <wayleavesmou@eskom.co.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; 'takalani@singoconsulting.co.za' <takalani@singoconsulting.co.za>; 'admin@singoconsulting.co.za' <admin@singoconsulting.co.za>; 'mimi@singoconsulting.co.za' <mimi@singoconsulting.co.za>; 'mutshidzi@singoconsulting.co.za' <mutshidzi@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>; 'nokuthula@singoconsulting.co.za' <nokuthula@singoconsulting.co.za>; 'deshney@singoconsulting.co.za' <deshney@singoconsulting.co.za>; 'abel@singoconsulting.co.za' <abel@singoconsulting.co.za>; 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'siyabonga@singoconsulting.co.za' <siyabonga@singoconsulting.co.za>; 'masindi@singoconsulting.co.za' <masindi@singoconsulting.co.za>; 'tendani@singoconsulting.co.za' <tendani@singoconsulting.co.za>; 'kefilwe@singoconsulting.co.za' <kefilwe@singoconsulting.co.za>; 'sithabile@singoconsulting.co.za' <sithabile@singoconsulting.co.za>

Subject: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Good day,

I hope this email finds you well.

Kindly note that this email is informing you as Interested and Affected Party of the proposed project of **Coal** Prospecting Right to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR. Situated under Magisterial District of Delmas, Mpumalanga Province. **Singo consulting Pty Ltd** on behalf of **Gadebe Investments CC** is currently conducting an Environmental Impact Assessment and public participation process.

Gadebe Investments CC has applied for a Prospecting Right together with the application for Environmental Authorization to the Mpumalanga Department of Mineral Resources for the Coal exploration to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR.

This notification is given in compliance with the terms of the following Acts: Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA), National Environmental Management Act, 1998 (Act No. 107 of 1998), and EIA Regulations (as amended, 07 April 2017) which requires that stockholders to be notified of Gadebe Investments CC's intention to obtain a Prospecting Right to establish the proposed Coal Exploration.

Please find the attached Background Information Document for the brief description of the proposed project.

Please note that timelines for this project are highlighted on the attached BID.

Regards,

Livhuwani Sigwadi
Junior Consultant



Singo Consulting (Pty) Ltd



B.Sc. (Hons)
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+27 76 652 9062
+27 86 514 4103

www.singoconsulting.co.za
livhuwani@singoconsulting.co.za
09 Langa Crescent, Corridor Hill Crossing
First Floor (South Block), Office No. 16, eMalahleni

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Tuesday, 19 November 2019 10:37

To: 'Lazarus.Masuku@drdlr.gov.za' <Lazarus.Masuku@drdlr.gov.za>; 'sonto.shongwe@drdlr.gov.za' <sonto.shongwe@drdlr.gov.za>; 'Petruscha.Lindoor@drdlr.gov.za' <Petruscha.Lindoor@drdlr.gov.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; 'takalani@singoconsulting.co.za' <takalani@singoconsulting.co.za>; 'admin@singoconsulting.co.za' <admin@singoconsulting.co.za>; 'mimi@singoconsulting.co.za' <mimi@singoconsulting.co.za>; 'mutshidzi@singoconsulting.co.za' <mutshidzi@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>; 'nokuthula@singoconsulting.co.za' <nokuthula@singoconsulting.co.za>; 'deshney@singoconsulting.co.za' <deshney@singoconsulting.co.za>; 'abel@singoconsulting.co.za' <abel@singoconsulting.co.za>; 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'siyabonga@singoconsulting.co.za' <siyabonga@singoconsulting.co.za>; 'masindi@singoconsulting.co.za' <masindi@singoconsulting.co.za>; 'tendani@singoconsulting.co.za' <tendani@singoconsulting.co.za>; 'kefilwe@singoconsulting.co.za' <kefilwe@singoconsulting.co.za>; 'sithabile@singoconsulting.co.za' <sithabile@singoconsulting.co.za>

Subject: Land Claim Enquiry

Good day,

I hope this email finds you well.

kindly receiving this email as an enquiry for any possible land claim

Kindly review the attached BID for detailed description of proposed project. This is to ensure that all claimants are properly consulted and are given opportunity to:

- Register as an I&AP and to respond to the environmental compliance process;
- Raise issues of concern and provide suggestions for enhanced benefits;
- Contribute to local knowledge;
- Comment on the Draft Basic Assessment Report (DBAR) & Environmental Management Program (EMP); and
- Inform any other person / organization that they may feel should be informed about the project.

Your comments will be highly appreciated as they will assist us in developing a well-informed BAR and EMPr.

Regards,

Livhuwani Sigwadi
Junior Consultant

B.Sc. (Hons)
Environmental Management

+27 13 692 0041
+27 76 652 9062
+27 86 514 4103

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livhuwani@singoconsulting.co.za
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First Floor (South Block), Office No. 16, eMalaheni

Singo Consulting (Pty) Ltd

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Tuesday, 19 November 2019 10:38

To: 'Ria Barkhuizen (NR)' <Barkhuizenr@nra.co.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; 'takalani@singoconsulting.co.za' <takalani@singoconsulting.co.za>; 'admin@singoconsulting.co.za' <admin@singoconsulting.co.za>; 'mimi@singoconsulting.co.za' <mimi@singoconsulting.co.za>; 'mutshidzi@singoconsulting.co.za' <mutshidzi@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>; 'nokuthula@singoconsulting.co.za' <nokuthula@singoconsulting.co.za>; 'deshney@singoconsulting.co.za' <deshney@singoconsulting.co.za>; 'abel@singoconsulting.co.za' <abel@singoconsulting.co.za>; 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'siyabonga@singoconsulting.co.za' <siyabonga@singoconsulting.co.za>; 'masindi@singoconsulting.co.za' <masindi@singoconsulting.co.za>; 'tendani@singoconsulting.co.za' <tendani@singoconsulting.co.za>; 'kefilwe@singoconsulting.co.za' <kefilwe@singoconsulting.co.za>; 'sithabile@singoconsulting.co.za' <sithabile@singoconsulting.co.za>

Subject: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Good day,

I hope this email finds you well.

Kindly note that this email is informing you as Interested and Affected Party of the proposed project of **Coal** Prospecting Right to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR. Situated under Magisterial District of Delmas, Mpumalanga Province. **Singo consulting Pty Ltd** on behalf of **Gadebe Investments CC** is currently conducting an Environmental Impact Assessment and public participation process.

Gadebe Investments CC has applied for a Prospecting Right together with the application for Environmental Authorization to the Mpumalanga Department of Mineral Resources for the Coal exploration to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR.

This notification is given in compliance with the terms of the following Acts: Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA), National Environmental Management Act, 1998 (Act No. 107 of 1998), and EIA Regulations (as amended, 07 April 2017) which requires that stockholders to be notified of Gadebe Investments CC's intention to obtain a Prospecting Right to establish the proposed Coal Exploration.

Please find the attached Background Information Document for the brief description of the proposed project.

Please note that timelines for this project are highlighted on the attached BID.

Regards,

Livhuwani Sigwadi
Junior Consultant

B.Sc. (Hons)
Environmental Management

+27 13 692 0041
+27 76 652 9062
+27 86 514 4103

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livhuwani@singoconsulting.co.za
09 Langa Crescent, Corridor Hill Crossing
First Floor (South Block), Office No. 16, eMalaheni

Singo Consulting (Pty) Ltd

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Tuesday, 19 November 2019 10:38

To: 'LabuscSJ@eskom.co.za' <LabuscSJ@eskom.co.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; 'takalani@singoconsulting.co.za' <takalani@singoconsulting.co.za>; 'admin@singoconsulting.co.za' <admin@singoconsulting.co.za>; 'mimi@singoconsulting.co.za' <mimi@singoconsulting.co.za>; 'mutshidzi@singoconsulting.co.za' <mutshidzi@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>; 'nokuthula@singoconsulting.co.za' <nokuthula@singoconsulting.co.za>; 'deshney@singoconsulting.co.za' <deshney@singoconsulting.co.za>; 'abel@singoconsulting.co.za' <abel@singoconsulting.co.za>; 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'siyabonga@singoconsulting.co.za' <siyabonga@singoconsulting.co.za>; 'masindi@singoconsulting.co.za' <masindi@singoconsulting.co.za>; 'tendani@singoconsulting.co.za' <tendani@singoconsulting.co.za>; 'kefilwe@singoconsulting.co.za' <kefilwe@singoconsulting.co.za>; 'sithabile@singoconsulting.co.za' <sithabile@singoconsulting.co.za>

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Regards,

Livhuwani Sigwadi
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Singo Consulting (Pty) Ltd

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Tuesday, 19 November 2019 10:38

To: 'TRamavhona@environment.gov.za' <TRamavhona@environment.gov.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; 'takalani@singoconsulting.co.za' <takalani@singoconsulting.co.za>; 'admin@singoconsulting.co.za' <admin@singoconsulting.co.za>; 'mimi@singoconsulting.co.za' <mimi@singoconsulting.co.za>; 'mutshidzi@singoconsulting.co.za' <mutshidzi@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>; 'nokuthula@singoconsulting.co.za' <nokuthula@singoconsulting.co.za>; 'deshney@singoconsulting.co.za' <deshney@singoconsulting.co.za>; 'abel@singoconsulting.co.za' <abel@singoconsulting.co.za>; 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'siyabonga@singoconsulting.co.za' <siyabonga@singoconsulting.co.za>; 'masindi@singoconsulting.co.za' <masindi@singoconsulting.co.za>; 'tendani@singoconsulting.co.za' <tendani@singoconsulting.co.za>; 'kefilwe@singoconsulting.co.za' <kefilwe@singoconsulting.co.za>; 'sithabile@singoconsulting.co.za' <sithabile@singoconsulting.co.za>

Subject: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

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Please note that timelines for this project are highlighted on the attached BID.

Regards,

Livhuwani Sigwadi
Junior Consultant

B.Sc. (Hons)
Environmental Management

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livhuwani@singoconsulting.co.za
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First Floor (South Block), Office No. 16, eMalahleni

Singo Consulting (Pty) Ltd

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Tuesday, 19 November 2019 10:38

To: 'NevondoS@dws.gov.za' <NevondoS@dws.gov.za>; 'Ackerman Pieter' <AckermanP@dws.gov.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; 'takalani@singoconsulting.co.za' <takalani@singoconsulting.co.za>; 'admin@singoconsulting.co.za' <admin@singoconsulting.co.za>; 'mimi@singoconsulting.co.za' <mimi@singoconsulting.co.za>; 'mutshidzi@singoconsulting.co.za' <mutshidzi@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>; 'nokuthula@singoconsulting.co.za' <nokuthula@singoconsulting.co.za>; 'deshney@singoconsulting.co.za' <deshney@singoconsulting.co.za>; 'abel@singoconsulting.co.za' <abel@singoconsulting.co.za>

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Subject: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

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Please note that timelines for this project are highlighted on the attached BID.

Regards,

Livhuwani Sigwadi
Junior Consultant

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Singo Consulting (Pty) Ltd

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Tuesday, 19 November 2019 10:37

To: 'Lazarus.Masuku@drdlr.gov.za' <Lazarus.Masuku@drdlr.gov.za>; 'sonto.shongwe@drdlr.gov.za' <sonto.shongwe@drdlr.gov.za>; 'Petruscha.Lindoor@drdlr.gov.za' <Petruscha.Lindoor@drdlr.gov.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; 'takalani@singoconsulting.co.za' <takalani@singoconsulting.co.za>; 'admin@singoconsulting.co.za' <admin@singoconsulting.co.za>; 'mimi@singoconsulting.co.za' <mimi@singoconsulting.co.za>; 'mutshidzi@singoconsulting.co.za' <mutshidzi@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>; 'nokuthula@singoconsulting.co.za' <nokuthula@singoconsulting.co.za>; 'deshney@singoconsulting.co.za' <deshney@singoconsulting.co.za>; 'abel@singoconsulting.co.za' <abel@singoconsulting.co.za>; 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'siyabonga@singoconsulting.co.za' <siyabonga@singoconsulting.co.za>; 'masindi@singoconsulting.co.za' <masindi@singoconsulting.co.za>; 'tendani@singoconsulting.co.za' <tendani@singoconsulting.co.za>; 'kefilwe@singoconsulting.co.za' <kefilwe@singoconsulting.co.za>; 'sithabile@singoconsulting.co.za' <sithabile@singoconsulting.co.za>

Subject: Land Claim Enquiry

Good day,

I hope this email finds you well.

kindly receiving this email as an enquiry for any possible land claim

Kindly review the attached BID for detailed description of proposed project. This is to ensure that all claimants are properly consulted and are given opportunity to:

- Register as an I&AP and to respond to the environmental compliance process;
- Raise issues of concern and provide suggestions for enhanced benefits;
- Contribute to local knowledge;
- Comment on the Draft Basic Assessment Report (DBAR) & Environmental Management Program (EMP); and
- Inform any other person / organization that they may feel should be informed about the project.

Your comments will be highly appreciated as they will assist us in developing a well-informed BAR and EMPr.

Regards,

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Tuesday, 19 November 2019 15:45

To: 'Themba Mkhonto' <Themba.Mkhonto@drdlr.gov.za>

Subject: Land claim Enquiry

Good day,

I hope this email finds you well.

kindly receiving this email as an enquiry for any possible land claim

Kindly review the attached BID for detailed description of proposed project. This is to ensure that all claimants are properly consulted and are given opportunity to:

- Register as an I&AP and to respond to the environmental compliance process;
- Raise issues of concern and provide suggestions for enhanced benefits;
- Contribute to local knowledge;
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- Inform any other person / organization that they may feel should be informed about the project.

Your comments will be highly appreciated as they will assist us in developing a well-informed BAR and EMPr.

Regards,

APPENDIX F: Responses from Stakeholders and Communications with the EAP

From: Ackerman Pieter <AckermanP@dws.gov.za>

Sent: Tuesday, 19 November 2019 11:26

To: livhuwani@singoconsulting.co.za; Nevondo Seani (BHT) <NevondoS@dws.gov.za>

Cc: kenneth@singoconsulting.co.za; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; takalani@singoconsulting.co.za; admin@singoconsulting.co.za; mimi@singoconsulting.co.za; mutshidzi@singoconsulting.co.za; anthony@singoconsulting.co.za; nokuthula@singoconsulting.co.za; deshney@singoconsulting.co.za; abel@singoconsulting.co.za; owen@singoconsulting.co.za; siyabonga@singoconsulting.co.za; masindi@singoconsulting.co.za; tendani@singoconsulting.co.za; kefilwe@singoconsulting.co.za; sithabile@singoconsulting.co.za; Mulaudzi Nkhumbudzeni <MulaudziN@dws.gov.za>; Kuse Lumka <KuseL@dws.gov.za>; Roets Wietsche <RoetsW@dws.gov.za>; Meulenbeld Paul <MeulenbeldP@dws.gov.za>; Khosa Tsunduka <KhosaT@dws.gov.za>; Naidoo Bronwyn Roxanne <NaidooB@dws.gov.za>

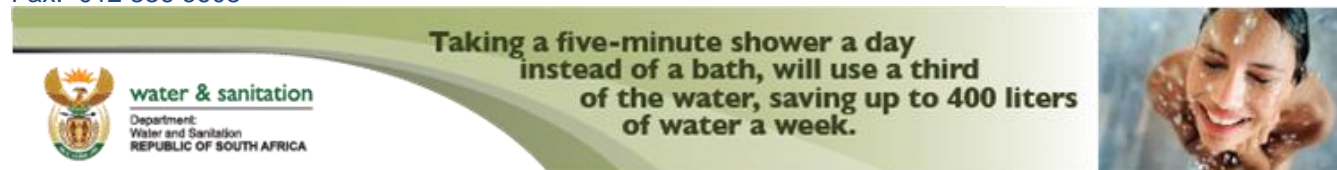
Subject: RE: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Hi

Scientific buffers must be included from the start to protect watercourses from drilling and mining.

Regards

Pieter Ackerman (PrLArch)
Chief Landscape Architect
Department of Water and Sanitation (DWS), South Africa
Sub Directorate Instream Water Use
Tel: 012 336 8217
Cell: 082 807 3512
Fax: 012 336 6608



From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Wednesday, 15 January 2020 10:40

To: 'Ackerman Pieter' <AckermanP@dws.gov.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>;

'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>

Subject: RE: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Good day Ackerman,

Please receive a hydrological buffer map of the proposed project.
A hydrological buffer map created to avoid any wetlands, rivers and ponds within the proposed area.

Regards,

Livhuwani Sigwadi
Junior Consultant

B.Sc. (Hons)
Environmental Management

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+27 76 652 9062
+27 86 514 4103

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livhuwani@singoconsulting.co.za
09 Langa Crescent, Corridor Hill Crossing
First Floor (South Block), Office No. 16, eMalahleni

Singo Consulting (Pty) Ltd

From: Ackerman Pieter <AckermanP@dws.gov.za>

Sent: Wednesday, 15 January 2020 10:48

To: livhuwani@singoconsulting.co.za

Subject: RE: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Hi

Overlay the wetland buffers and drilling on the map please.

Regards

Pieter Ackerman (PrLArch)
Chief Landscape Architect
Department of Water and Sanitation (DWS), South Africa
Sub Directorate Instream Water Use
Tel: 012 336 8217
Cell: 082 807 3512
Fax: 012 336 6608

water & sanitation
Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Taking a five-minute shower a day instead of a bath, will use a third of the water, saving up to 400 liters of water a week.

From: Themba Mkhonto <Themba.Mkhonto@drdlr.gov.za>

Sent: Thursday, 12 December 2019 09:36

To: livhuwani@singoconsulting.co.za

Cc: Mzothule Ngema <Mzothule.Ngema@drdlr.gov.za>; Thandeka Yvonne Dhlamini <Thandeka.Dhlamini@drdlr.gov.za>; Ntokozo Nkambule <ntokozo.nkambule@drdlr.gov.za>; Petruscha Elaine Lindoor <Petruscha.Lindoor@drdlr.gov.za>; Vusi Kleinboy Khoza <Vusi.Khoza@drdlr.gov.za>; Dumsani Hlongwane <Dumsani.Hlongwane@drdlr.gov.za>

Subject: RE: Land claim Enquiry

Good day

Kindly find the attached respond as requested



OFFICE OF THE REGIONAL LAND CLAIMS COMMISSIONER: MPUMALANGA PROVINCE
 Shop no E8, Saveways Crescent Centre, Cnr OR Tambo and Mandela Street, Die Heuwel Witbank
 PRIVATE BAG X 7201
 WITBANK, 1035
 TEL : 013 655 1000

ENQ: MR THEMBA MKHONTO
 TEL: 013 655 1000

ATTENTION: LIVHUWANI

LAND RESTITUTION IN TERMS OF THE RESTITUTION OF LAND RIGHTS ACT NO. 22 OF 1994

I refer to your enquiry, dated 11 December 2019

Please note that a claim for the restitution of land rights has been lodged against the following property:

Property Description	Comments	File number	Claim Status
Province: Mpumalanga Magisterial District: Victor Khanye Property: ➤ Portion of the remaining extent, portions 1,3,4,5,6,7,8,11,13,14,17,19,20,21 and 22 of the farm Goedgedacht 228 IR	➤ There is a registered land claim which was lodged against the mentioned property. Further clarity, please contact the Project Officer Mr Medupi Ledwaba @ 082 379 4776 / 013 655 1000	➤ KRP 251 ➤ KRP 262	➤ Accepted

It is not within the powers of the Commission on Restitution of Land Rights to grant or withhold permission for the development or alienation in respect of land being claimed until such a claim has been gazette unless such development would constitute an obstruction to the achievement of the aims and objectives of the Restitution of Land Rights Act 22 of 1994. In such instances application can be made in the Land Claims Court in terms of Section 6(3) of the Restitution Act; this can be done at any stage after the claim has been lodged - even before the publishing of such a claim in terms of Section 11 of the Restitution of Land Rights Act 22 of 1994.

While the Regional Land Claims Commission: Mpumalanga has taken reasonable care to ensure the accuracy of the above-mentioned information, the Commission cannot be held accountable if, through the process of further investigation, additional information is found that contradicts this communication.

The records in the Records Management Section of the Department of the Rural Development and Land Reform reflect in respect of the following property Goedgedacht 228 IR which is situated in the Victor Khanye Local municipality, Nkangala District in Mpumalanga Province, that there is a competing land claims in respect of the above mentioned properties.

Kind regards

PP

Mr. E.S. NKOSI
CHIEF DIRECTOR
OFFICE OF REGIONAL LAND CLAIMS COMMISSION
DATE:11/12/2019

Kindly regards



16 DAYS of Activism
for no violence against Women and Children

Enough is Enough
365 days to end Gender-Based Violence and Femicide (GBV/F)

25 November – 10 December

Let's grow South Africa together | #16DaysOfActivism #EndGBV #EnoughIsEnough

NDP

From: Ria Barkhuizen (NR) <Barkhuizenr@nra.co.za>

Sent: Wednesday, 04 December 2019 14:02

To: livhuwani@singoconsulting.co.za

Subject: RE: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Good day

This email is an acknowledgement of receipt for your enquiry.

Please note that your enquiry will be evaluated and a response provided within 30 days, in line with requirements of Section 29 of the Spatial Planning and Land Use management Act (Act No.16 of 2013) read with Section 3 of the Promotion of Administrative Justice Act (Act No.3 of 2000).

Should you not receive any response within 30 days, kindly follow up on the enquiry by responding to Jan Oliver who will be dealing with it and will convert back to you. He can be contacted on (012) 426-6200 / 6242.

Tx and Regards

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>

Sent: Thursday, 09 January 2020 11:01

To: 'Ria Barkhuizen (NR)' <Barkhuizenr@nra.co.za>

Cc: 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'Rudzani Shonisani' <rudzani@singoconsulting.co.za>; 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'nokuthula@singoconsulting.co.za' <nokuthula@singoconsulting.co.za>; 'admin@singoconsulting.co.za' <admin@singoconsulting.co.za>

Subject: RE: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Good day Ria,

Thank you for acknowledging my enquiry as I requested, I will be appreciate if you attend my enquiry before consultation closing date (05 February 2020) of the proposed project.

Regards,

Livhuwani Sigwadi
Junior Consultant

B.Sc. (Hons)
Environmental Management

+27 13 692 0041
+27 76 652 9062
+27 86 514 4103

www.singoconsulting.co.za
livhuwani@singoconsulting.co.za
09 Langa Crescent, Corridor Hill Crossing
First Floor (South Block), Office No. 16, eMalahleni

Singo Consulting (Pty) Ltd

From: Ria Barkhuizen (NR) <Barkhuizenr@nra.co.za>
Sent: Thursday, 09 January 2020 11:01
To: livhuwani@singoconsulting.co.za
Subject: Automatic reply: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT ON PORTION OF THE REMAIN EXTENT, PORTIONS 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17 OF THE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Good day
Please note that I'm on leave and will be back in the office on the 13 January 2020.

Kind Regards
Ria

From: Jan Oliver (NR) <OliverJ@nra.co.za>
Sent: Tuesday, 28 January 2020 09:30
To: livhuwani@singoconsulting.co.za
Subject: RE: DRAFT PROSPECTING RIGHT REPORT BY GADEBE INVESTMENTS CC FOR COAL AND GRAVEL RESOURCES ON FARM GOEDGEDACHT 228 IR, MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE.

Dear Livhuwani Sigwadi

PROSPECTING RIGHT REPORT BY GADEBE INVESTMENTS CC FOR COAL AND GRAVEL RESOURCES ON FARM GOEDGEDACHT 228 IR, MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE.

DMR REF: MP 30/5/1/1/2//15613 PR

No national roads will be affected by the Prospecting Right Application. SANRAL therefore have no comments nor objection to the approval of the application by the Department of Department of Minerals and Resources

Yours sincerely,
Jan Oliver
Statutory Controller
Northern Region
38 Ida Street, Menlo Park, Pretoria, Gauteng, 0081,
T: 012 426 6242 | M: 083 283 6083
OliverJ@nra.co.za | www.sanral.co.za
Fraud Hotline Number - 0800 204 558

SANRAL



APPENDIX G: Proof of Draft Report Sent to the Stakeholders

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>
Sent: Thursday, 16 January 2020 10:22
To: 'Idlewild Farm' <driver@ballmail.co.za>
Cc: 'owen@singoconsulting.co.za' <owen@singoconsulting.co.za>; 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'anthony@singoconsulting.co.za' <anthony@singoconsulting.co.za>
Subject: RE: INVITATION TO COMMENT ON THE PROPOSED PROSPECTING RIGHT PROJECT OF THE REMATHE FARM GEODGEDACHT 228 IR IN THE MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE

Hi Mark William Driver,

I hope you still well,

Please receive a draft BAR for the proposed prospecting right application for Coal and gravel to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR.

Find a comment form on the last page of BID attached above

Please forward your comment to Sigwadi Livhuwani via email before 05 February 2020.

Regards,

Livhuwani Sigwadi
Junior Consultant

B.Sc. (Hons)
Environmental Management

+27 13 692 0041
+27 76 652 9062
+27 86 514 4103

www.singoconsulting.co.za
livhuwani@singoconsulting.co.za
09 Langa Crescent, Corridor Hill Crossing
First Floor (South Block), Office No. 16, eMalahleni

Singo Consulting (Pty) Ltd

From: livhuwani@singoconsulting.co.za <livhuwani@singoconsulting.co.za>
Sent: Friday, 17 January 2020 15:59
To: 'potgietercp@telkomsa.net' <potgietercp@telkomsa.net>
Cc: 'schalk.swlouw@gmail.com' <schalk.swlouw@gmail.com>; 'kenneth@singoconsulting.co.za' <kenneth@singoconsulting.co.za>; 'siyabonga@singoconsulting.co.za' <siyabonga@singoconsulting.co.za>; 'mutshidzi@singoconsulting.co.za' <mutshidzi@singoconsulting.co.za>
Subject: INVITATION TO COMMENT PROSPECTING RIGHT REPORT BY GADEBE INVESTMENTS CC FOR COAL AND GRAVEL RESOURCES ON FARM GOEDGEDACHT 228 IR, MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE.

Good day,

I hope this email finds you well.

Singo Consulting identified you as a land owner of the farm Goedgedacht 228 IR

Kindly note that this email is informing you as Interested and Affected Party of the proposed project of Coal and gravel Prospecting Right to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR. Situated under Magisterial District of Delmas, Mpumalanga Province. Singo consulting Pty Ltd on behalf of Gadebe Investments CC is currently conducting an Environmental Impact Assessment and public participation process.

Gadebe Investments CC has applied for a Prospecting Right together with the application for Environmental Authorization to the Mpumalanga Department of Mineral Resources for the Coal and Gravel exploration to be located on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 13, 14, 17, 19, 20, 21 and 22 of the farm Goedgedacht 228 IR.

Please see the attached consultation documents:

- BID
- Draft Basic Assessment Report
- Windeed
- Land Owner Notification Letter

N:B Please forward your comment (specify which portions fall under you) to the email below before the date stated on the BID attached above.

Regards,

Livhuwani Sigwadi
Junior Consultant

B.Sc. (Hons)
Environmental Management

+27 13 692 0041
+27 76 652 9062
+27 86 514 4103

www.singoconsulting.co.za
livhuwani@singoconsulting.co.za
09 Langa Crescent, Corridor Hill Crossing
First Floor (South Block), Office No. 16, eMalaheni

Singo Consulting (Pty) Ltd

FARM Owner

PROOF OF SUBMISSION


I, Haffman, herewith acknowledge receipt of:

1 X copy of the report titled: PROSPECTING Right Application
for Coal & gravel By Gadebe Investment cc

Name of Department:	<u>Land owner</u>
Physical Address of Department:	<u>farm Goedgedob N.</u>
Tell No.:	<u>0825248333</u>
Email:	

Date: 17 / 01 / 2020

Time: 15 : 16

Signature: 



PROOF OF SUBMISSION

I, Dolly, herewith acknowledge receipt of:

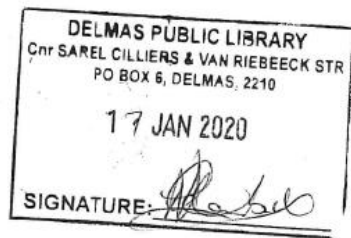
1 X copy of the report titled: Prospecting Right Application
 for Coal and gravel by gadebe investment cc

Name of Department:	Library
Physical Address of Department:	Cnr Sarel Cilliers & Van Riebeeck Delmas 2210
Tell No.:	015 665 6000
Email:	

Date: 17 / 01 / 2020

Time: 45 : 12

Signature: [Handwritten Signature]



BASIC ASSESSMENT REPORT AND ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

PROSPECTING RIGHT REPORT BY GADEBE INVESTMENTS CC FOR COAL AND GRAVEL RESOURCES ON FARM GOEDGEDACHT 228 IR, MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE.

Applicant: Gadebe Investments CC

1686 Magaliesberg Country Estate,
Longmore Street,
Pretoria North 1803
Cell: 0814128530
Fax: +27 86 5144 103
Email: dihloma@gmail.com

Compiled For:



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

Department of Minerals and Resources
Regional office
Saveways Crescent Centre,
Mandela Drive,
Emalahleni, 1035
Mpumalanga

Prepared By:

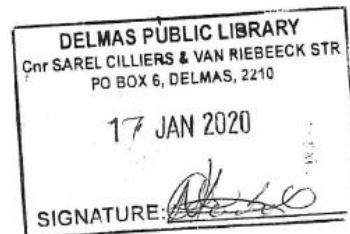


Singo Consulting (Pty) Ltd

Office No. 16, First Floor, Corridor Hill Crossing,
09 Langa Crescent, Corridor Hill,
eMalahleni, 1035.
Tell No.: +27 13 6920 041
Fax No.: +27 86 5144 103

DMR REF: MP 30/5/1/1/2//15613 PR

Draft Report



Singo Consulting (Pty) Ltd

09 Langa Crescent, Corridor Hill
 Crossing, First Floor (South Block)
 Office No. 16, eMalahleni

kenneth@singoconsulting.co.za
 www.singoconsulting.co.za

+27 13 692 0041
 +27 86 514 4103

PROOF OF SUBMISSION

I, Jacob Nkabinde, herewith acknowledge receipt of:

1 X copy of the report titled: Prospecting Right Report

for Gadebe Investment CC.

Name of Department:	Victor Khanye local Municipality
Physical Address of Department:	Cnr. Van der Walt and Samuel Road, Delmas
Tell No.:	013 665-6000 X 1036
Email:	jacobn@victorkhanyeln.gov.za

Date: 17/10/2020

Time: 12:20

Signature: 



BASIC ASSESSMENT REPORT AND ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

PROSPECTING RIGHT REPORT BY GADEBE INVESTMENTS CC FOR COAL AND GRAVEL RESOURCES ON FARM GOEDGEDACHT 228 IR, MAGISTERIAL DISTRICT OF DELMAS, MPUMALANGA PROVINCE.

Applicant: Gadebe Investments CC

1686 Magaliesberg Country Estate,
Longmore Street,
Pretoria North 1803
Cell: 0814128530
Fax: +27 86 5144 103
Email: dihloma@gmail.com

Compiled For:



Department of Minerals and Resources
Regional office
Saveways Crescent Centre,
Mandela Drive,
Emalaheni, 1035
Mpumalanga

Prepared By:



Singo Consulting (Pty) Ltd

Office No. 16, First Floor, Corridor Hill Crossing,
09 Langa Crescent, Corridor Hill,
eMalaheni, 1035.
Tell No.: +27 13 6920 041
Fax No.: +27 86 5144 103

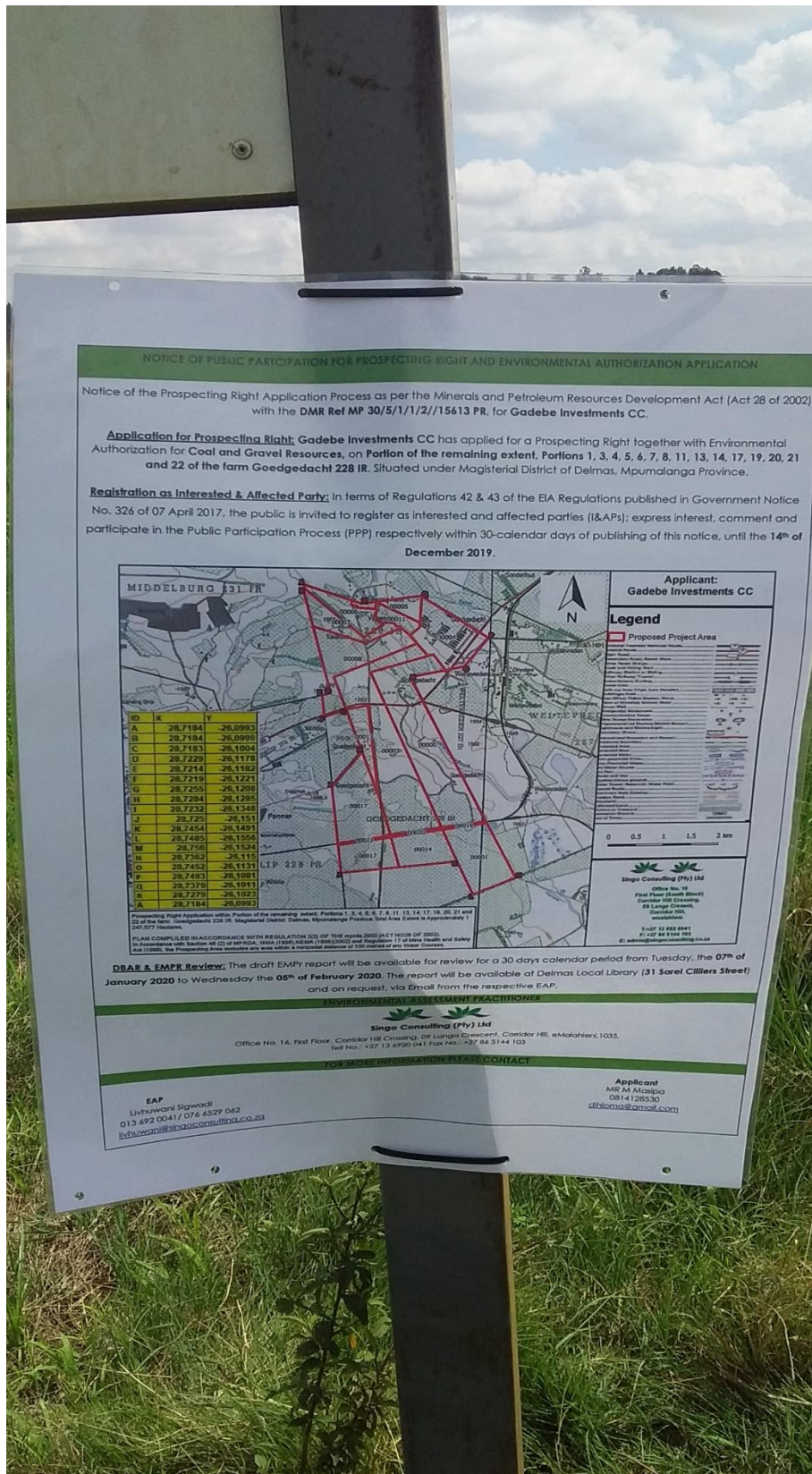
**Victor Khanye
Local Municipality
/ 7 JAN 2020
Community Services**

DMR REF: MP 30/5/1/1/2//15613 PR

Draft Report

**Victor Khanye
Local Municipality
/ 7 JAN 2020
Community Services**

APPENDIX H: Proof of Site Assessment and Site Notices Plugging.










NOTICE OF PUBLIC PARTICIPATION FOR PROSPECTING RIGHT AND ENVIRONMENTAL AUTHORIZATION APPLICATION
NOTICE OF PUBLIC PARTICIPATION FOR PROSPECTING RIGHT, MINING PERMIT AND ENVIRONMENTAL AUTHORIZATION APPLICATIONS

Notice of the Prospecting Right Application Process as per the Minerals and Petroleum Resources Development Act (Act 28 of 2002) with the DMR Ref MP 30/4/1/1/22/15413 PR, for **Gadebe Investments CC**.

Application for Prospecting Right: Gadebe Investments CC has applied for a Prospecting Right together with Environmental Authorization for Coal and Gravel Resources, on Portion of the remaining extent, Portions 1, 3, 4, 5, 6, 7, 8, 11, 12, 14, 17, 19, 20, 21 and 22 of the farm Goedgedoch 228 W, Shaded under Maghalela District of former, Northwester Province.

Registration as Interested & Affected Party: In terms of Regulations 42 & 43 of the EA Regulations published in Government Notice No. 326 of 07 April 2017, the public is invited to register as interested and affected parties (IAAPs) express interest, comment and participate in the Public Participation Process (PPP) respectively within 30 calendar days of publishing of this notice, until the 14th of December 2019.



DEALS & EMPH RESERVE: The draft EMPR reports will be available for review for a 30 days calendar period from Tuesday, the 07th of January 2020 to Wednesday the 09th of February 2020. The report will be available at Delmas Local Library (31 Sarel Cilliers Street) and on request, via Email from the respective EAP.

ENVIRONMENTAL ASSESSMENT PRACTITIONERS

Singo Consulting (Pty) Ltd
 Office No. 14, 1st Floor, Combe 1st Crossing 09, Louisa-Forestad, Combe NE, 0184-1000.
 Tel No.: +27 13 4520 041 Fax No.: +27 84 51 44 103

FOR MORE INFORMATION PLEASE CONTACT:

EAP
 Sifiso Mkhondo
 013 492 0641 / 074 4529 042
 sifiso@singoconsulting.co.za

Applicant
 Mr. M. Mkhondo
 081 41 28530
 m@gsaib@gmail.com

DELMAS PUBLIC LIBRARY



Place

ICUMMI
 The Secret Place

Charter Director: +27 84 77 9333 / 0758661385
 icummi@icummimusic.co.za / 0758661385
 Registration No. 2017/043606/08





APPENDIX I: EAP CV

APPENDIX J: FINANCIAL PROVISION

CALCULATION OF THE QUANTUM							
Gadebe Investment cc				Singo Consulting (Pty) Ltd			
Applicant: Evaluator: Kenneth Singo				Ref No.: Date: Jan-20			
				MP 30/5/1/1/2//15613 PR			
No.	Description	Unit	A Quantity	B Master Rate	C Multiplication factor	D Weighting factor 1	E=A*B*C*D Amount (Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	16	1	1	0
2 (A)	Demolition of steel buildings and structures	m2	0	228	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	336	1	1	0
3	Rehabilitation of access roads	m2	0	41	1	1	0
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	395	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	216	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	455	1	1	0
6	Opencast rehabilitation including final voids and ramps	ha	0	238 697	1	1	0
7	Sealing of shafts adits and inclines	m3	0	122	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0	159131	1	1	0
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	198 195	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	575 653	1	1	0
9	Rehabilitation of subsided areas	ha	0	133249	1	1	0
10	General surface rehabilitation	ha	0,9	126059	0,01	0,05	56,72655
11	River diversions	ha	0	126059	1	1	0
12	Fencing	m	0	144	1	1	0
13	Water management	ha	0	47931	1	1	0
14	2 to 3 years of maintenance and aftercare	ha	0	16776	1	1	0
15 (A)	Specialist study	Sum	0	0	1	1	0
15 (B)	Specialist study	Sum	0	0	1	1	0
						Sub Total 1	56,72655
1	Preliminary and General		6,807186	weighting factor 2 1			6,807186
2	Contingencies			5,672655			5,672655
						Subtotal 2	69,21
SIGN	Ndinanyi Kenneth Singo				VAT (15%)		37160,87
DATE	2020/01/08				Grand Total		37230