

ENVIRONMENTAL IMPACT ASSESSMENT REPORT and ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

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

NAME OF APPLICANT: Buitehof Boerdery CC

TEL NO: 082 335 2154

FAX NO: -

POSTAL ADDRESS: P.O. Box 366, Lichtenburg 2740

FILE REFERENCE NUMBER SAMRAD: NW30/5/1/1/2/12421 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 mining 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.

1. 2. OBJECTIVE OF THE ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

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

- (a) determine the policy and legislative context within which the activity is located and document how the proposed activity complies with and responds to the policy and legislative context;
- (b) describe the need and desirability of the proposed activity, including the need and desirability of the activity in the context of the preferred location;
- (c) identify the location of the development footprint within the preferred site based on an impact and risk assessment process inclusive of cumulative impacts and a ranking process of all the identified development footprint alternatives focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects of the environment;
- (d) determine the-
 - (i) nature, significance, consequence, extent, duration and probability of the impacts occurring to inform identified preferred alternatives; and
 - (ii) degree to which these impacts-
 - (aa) can be reversed;
 - (bb) may cause irreplaceable loss of resources, and
 - (cc) can be avoided, managed or mitigated;
- (e) identify the most ideal location for the activity within the preferred site based on the lowest level of environmental sensitivity identified during the assessment;
- identify, assess, and rank the impacts the activity will impose on the preferred location through the life of the activity;
- (g) identify suitable measures to manage, avoid or mitigate identified impacts; and
- (h) identify residual risks that need to be managed and monitor

PART A SCOPE OF ASSSSMENT AND ENVIRONMENTAL IMPACT ASSESSMENT REPORT

- 3. Contact Person and correspondence address
- a) Details of
 - (i) Details of the EAP

In term of NEMA - EIA Regulations No. 326 of 7 April 2017 - Reg. 21, Appendix 3 - 1. (1)(a)(i)

Name of the Practitioner: DERA Environmental Consultants - Mr. Daan Erasmus

Tel No.:018 468 5355 Fax No.:018 468 4015

E-mail address:daane@dera.co.za

- (ii) Expertise of the EAP.
 - (1) The qualifications of the EAP

(with evidence)

In term of NEMA - EIA Regulations No. 326 of 7 April 2017 - Reg. 21, Appendix 3 - 1. (1)(a)(ii)

See next page for copy of qualification, Figure 1.

Figure 1 - Copy of Qualification

TECHNIKON PRETORIA



BACCALAUREUS TECHNOLOGIAE

LANDBOU: VOORLIGTING

AGRICULTURE: EXTENSION

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American in

DANIEL ELARDUS ERASMUS

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with effect from

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TECHNIKON PRETORIA



TECHNIKON PRETORIA

NASIONALE NATIONAL **DIPLOMA**

LANDBOU: HULPBRONBENUTTING

AGRICULTURE: RESOURCE UTILIZATION

Toegeken aan

Awarded to

91004437

7009075033088

met ingang van

with effect from

1994-01-01

DANIEL ELARDUS ERASMUS

Die volgende is voltooi

The following were completed

Landbou-ekonomie I, II en III Voorligtingsmetodiek I en III Akkerbou I, II en III Weidingkunde A Bodembeplanning I en II

Bodembewaring I Grondkunde I en II *Meganisasio Fisiese Wetenskap

Melkproduksietegnologie Vleisbeesproduksietegnologie Kleinvaeproduksietegnologie Grondklassifikasie III

Agricultural Economics I, II and III Extension Method I and II Field Husbandry I, II and III Pasture Science A Land Use Planning I and II Soil Conservation I Soil Science I and II Mechanisation*

McChanisation-Physical Science Milk Production Technology Beefer Production Technology Small Stock Production Technology Soil Classification III ******

Minimum Opleidingstydperk: 3 Jaar Minimum Training Period : 3 Years

Uitvoerende Direkteur/ Executive Director

Nr./No. ND1117/94

TECHNIKON Rektor/Rector

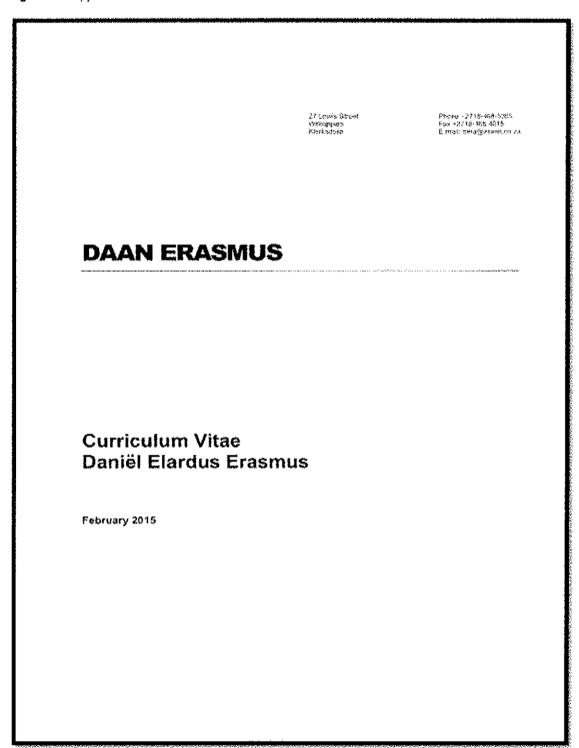
University and the specific region of the State State

(2) Summary of the EAP's past experience. (In carrying out the Environmental Impact Assessment Procedure)

(In carrying out the Environmental Impact Assessment Procedure)

See Figure 2 below Curriculum Vitae of D. E. Erasmus.

Figure 2 - Copy of Curriculum Vitae



Personal Information

Name:

Daniël Elardus Erasmus

Date of Birth:

7 September 1970

Place of Birth:

Ottosdal, North West Province, South Africa

Marital Status:

Married with two children

Secondary & Post Secondary Education

1983-1988

Wolmaransstad High School, North West, SA

Higher School Certificate - with Full Exemption

Subjects:

English

Afrikaans

Mathematics

Science

Geography

Accounting

1989-1990

Military Service, Potchefstroom, SA

Artillery Division

Officers Course: Il Lieutenant

1991-1994

Technikon Pretoria, Pretoria, SA

National Diploma

Agriculture: Resource Utilization

Subjects:

Agricultural Economics I, II and III Extension Method I, II and III

Field Husbandry I, II and III Pasture Science A

Land Use Planning Land II

Soil Conservation I Soil Science I and II Mechanization Physical Science

Milk Production Technology Beef Production Technology Small Stock Production Technology

Soil Classification III Computer Application I

1996 Technikon Pretoria, Pretoria, SA

Baccalaureus Technologiae

Agriculture: Extension

- 2 -

Subjects: Agricultural Communication I

Agricultural Extension IV Crop Production IV Research Methodology

1998-1999 Orange Free State University, Bloemfontein, SA

Completed all subjects as part of the Masters Degree in Sustainable Agriculture, but have not yet completed

the script.

Subjects: Conservation of agricultural resources and the Environment

Soil-, climate and water use and soil and water Management

Plant and energy utilization and management Economics of sustainability and development

Scrip - project proposat

Sustainable plant production systems

Farm management for sustainable agriculture Strategic management, marketing and planning

Communication and technology transfer

Courses Computer training Obase IV

Seminar in public speaking Veld assessment course

Resource Identification and utilization course

ArcView GIS course Persuasion Skills course Wetlands identification course Rehabilitation of Wetlands course

Management skills course Agricultural Law course

Professional Experience

1991-2002 Commenced professional career as resource

conservation inspector at the National Department of Agriculture – Directorate: Land Resource Management in 1991. The main activities was veld inspecting in order to monitor correct utilization of natural resources and where necessary take steps according to Act. Day to day activities included discussions and lectures at farmers unions; municipalities and other institutions in order to promulgate the Act. During 1998, I was appointed as Chief Resource Conservation Inspector, with duties being manage the administration of Act 42 of 1992.

being: manage the administration of Act 43 of 1983,

Agricultural Resource Conservation Act in the North West Province of SA; management of personnel and personnel related matters; management of budget of regional office in Potchefstroom; monitoring mine rehabilitation and environmental management out of agricultural point of view; management and control of declared weeds and

invader species.

2003-Present Began own company - DERA Environmental

Consultants. Main scope of business: Compiling and submission of mining related applications; Manage and compile legal environmental documents. Further doing monitoring work to evaluated compliance to environmental legislation; evaluating outstanding

rehabilitation liabilities for mining companies.

Assist legal companies in determining environmental damage. Do assessment for closure applications. Give guidance in rehabilitation practices. Compile applications and basic assessment reports for chicken broilers and feed lots based on experience form management of the natural resources and the mitigation of impacts.

b) Location of the overall Activity.

Farm Name;	Klipbankfontein alias Manana 26 IP ✓ Remaining Extent of Portion 62,
Application area (Ha)	185.9659 ha
Magisterial district:	Lichtenburg is a town situated in North West Province of South Africa. It is the administrative centre of Ditsobotla Local Municipality.
Distance and direction from nearest town	Approximately 28 km west of Lichtenburg
21 digit Surveyor General Code for each farm portion	T0IP000000002600062
Coordinates of the application area	CO-ordinates List WG 27° MAME LAT LONG PROSPECTING AREA
Minerals applied for	Alluvial Diamonds, Diamonds in Kimberlite, Manganese Ore, Stone Aggrega from Waste dumps and Sand (general)

Locality map

(Show nearest town, scale not smaller than 1:250000). See Appendix 1(a) for Locality Map

Appendix 1(a) - Locality Map

d) 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 main and listed activities, and infrastructure to be placed on site

(i) Listed and specified activities

In term of NEMA - EIA Regulations No. 326 of 7 April 2017 - Reg. 21, Appendix 3 - 1. (1)(c)

Appendix 1(b) - Infrastructure and Activity Map

The farm portions over which the application was applied for is currently utilized for mostly cultivation with small portions of natural grass. The farm structures found on site are entrance road, windmills with farm stead and workers housing located in the central part of the farm Kilpbankfontein alias Manana 26 IP of the application area, see Appendix 1(b) for an indication of the proposed main listed activities and existing/proposed infrastructure and Figure 3 - Google Earth Images for more detail of what the side looks like pre-prospecting. Access to the farm is gained by existing farm roads from the Lichtenburg/Koster tar road (R52). Only a small portion of the cultivated land will be impacted upon at any given time and land use on the rest of the area can proceed normally. The prospecting focus area will be clearly demarcated. The area applied for is over the entire portions but the main prospecting focus area will be on the grazing land area.



Figure 3 - Google Earth Images

Page 10 of 62

Table 1: Listed Activities

I ROIG I. LISTON ACTIVITIES			
NAME OFACTIVITY (Mactivities including activities not listed) (E.g. Guesvalione, charling, stockpiles, discard dumps or dams. Loading, hauling and transport, Water supply dams and borsalors, accommodation, offices, ablution, stores, workshaps, processing plant, storm water control, berms, roads, pipolinas, power linas, convayors, aic, etc., etc.)	Aerial extent of the Activity (He or m²)	LISTEDACTIVITY Mark with an "X" where applicable or affected.	APPLICABLELISTING NOTICE(GNR544,GNR 545 or GNR546)/NOT LISTED
Listing 1.— Activity 20: Any activity including the operation of that activity which requires a prospecting right in terms of section 16 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including — (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource(.); or finctuding activities for which an examption has been issued in terms of section 105 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)] (b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or weaking; but excluding the secondary processing of a mineral resource, including the smelting, beneficiation, reduction, refluction, crighting, casteling, or gasification of the mineral resource in which case activity 6 in Listing Notice 2 applies.	185 ha	X	327
Listing 1.—Activity 27: The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for— i) the undertaking of a linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan.	1.5 ha	Х	327
Listing 2 Activity 19: The removal and disposal of minerals contemplated in terms of section 20 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 26 of 2002), including— (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource [1] or [including activities for which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)] the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing;	† ha	anera na manara man	325
but excluding the secondary processing of a mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource in which case activity 6 in this Notice applies.		••••••••••••••••••••••••••••••••••••••	Monda Marika kada anda anda ana kao ana ana ana ana ana ana ana ana ana a
Stockpiles of topsoil next to the open excavalion Roads within the prospecting area Ablution facilities, chemical and flush tollets		7-04	THE STANDARD STANDARD AND AND AND AND AND AND AND AND AND AN
781-7-2-11-11-11-11-11-11-11-11-11-11-11-11-1		THE PLANT SHOW MATERIAL PROPERTY AND ARRESTS AND ARRES	W.L.7900_0_0_

(ii) Description of the activities to be undertaken (businesse Methodology of treangledy) in the molecular plants and for a linear activities to be prospected/arised and for a linear activities.

(Dissorbut Methodology or Technology to be emisployed, including the type of commodify to be prospected/nined and for a linear activity, a description of the route of the extruty

Table 2: Environmental attributes

ITEM	DESCRIPTION
Environmental attributes. Describe how the Environmental attributes associated with the development loots int will be determined.	The site will be visited and a proper foot survey will be conducted The activities that will be conducted by the applicant will be discussed on site as described in the Prospecting Works Programme. The environmental setting on site and surrounding with the experience of the EAP will give an idea and lead to environmental attributes.
Identification of impacts and risks. Describe the process that will be used to identify impacts and risks.	The activities that will take place according to the Prospecting Works Programme will be discussed in detail with the applicant on site. With the specific environmental setting in mind and more specifically, the type of soil, soll depth, land use, vegetation type, and distances to open water and structures, the EAP will be able to identify potential impact areas where significant impacts might occur and the risks thereof. The methods of rehabilitation that need to be done, in order to meet the objective of the final land use will also be taken in consideration.
Consideration of alternatives. Describe how elternatives, and in particular the alternatives to the proposed side layout and possible alternative methods or technology to be applied will be determined.	The prospecting will be done in 3 phases namely: Phase 1 - Geological surveys Phase 2 - Test pits Phase 3 - Bulk sampling through trenching. The site will be visited before the EMP/EtA is compiled. The different site alternatives will be discussed with the applicant on site. The entire application area will be visited and areas that might be environmentally sensitive will be identified. The proposed impacts and mitigations will also be discussed.

Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and rask the impacts and rask cach individual welfully,	The site will be visited before the EMP/EIA is compiled. The different site alternatives will be discussed with the applicant on site. The entire application area will be visited and areas that might be environmentally sensitive will be identified. The proposed impacts and mitigations will also be discussed. The EAP [with 20 years' experience in prospecting and mining activities] will assess the specific site for possible impacts. The assessment of impacts will be done according to a synthesis of the following assessment criteria: - Nature of the impact - Extent (spatial scale) - Duration - Magnitude or intensity of the impact (severity) - Probability - Probability - Probability - Criteria that will be used to determine significance as described below Nature of the impact: - This is an appraisal of the type of effect the activity would have on the affected environment. The description includes how and what is being affected, whether it is positive or negative, as well as whether it is direct or indirect.
Contribution of specialist reports. Describe how specialist reports, it required, will be taken into consideration and inform the impact identification, assessment and stransition process.	No specialist reports required at this stage, unless specifically requested.
Determination of impact management objectives and outcomes. Describe how impact management objectives will be determined to each activity to extress the potential impact at source, and bow the impact management outcomes will be aligned with standards.	The Nature of the impact: This is an appraisal of the type of effect the activity would have on the affected environment. The description includes how and what is being affected, whether it is positive or negative, as well as whether it is direct or indirect. Each impact will be assessed and quantified, and management objectives according to the first two steps, will be set. The management of the objective will aligned with the significance of the impact, as well as to ensure a positive outcome. The outcomes will be aligned with standards on environmental management and rehabilitation of prospecting areas according to Department Mineral Resources.

A. DESCRIPTION OF PLANNED NON-INVASIVE ACTIVITIES:

(These ac	livities do not disturb the land where prospecting will take place e.g. serial photogra-	phy, desktop studies, peromagnetic surveys, etc)
Activities	Description of phases	Associated structures and infrastructures
Phases 1	Geological surveys will be undertaken by means of desktop studies	
	and available geological maps, 3 months area needed for this	
	phase.	

B. DESCRIPTION OF PLANNED INVASIVE ACTIVITIES:

 $(These \ activities \ result in \ tand \ disturbances \ e.g. \ sampling, \ drilling, \ bulk \ sampling, \ atc)$

TECHNICAL DETAIL REGARDING THE PROSPECTING METHODS

Table 3: Description of Activities to be followed

Activities	Description of phases	Associated structures and infrastructures
Phase 2	The testing pils will concentrate on the areas where the outcrops articipated gravet potential. A 30 ton excavator will be used to make test pils on a grid of 100 x 100m and where necessary 50 x 50m grid. The pils will be (2m x 2m x ± 3 deep) in order to determine the depth and boundaries of the gravel. These boundaries will be surveyed and mapped in order to determine where the bulk samples will be taken. Each test pit will be examined and closed immediately before moving to the next one. It is envisaged that a total of 50 test pits need to be excavated. 9 Months are needed for Phase 2.	of 2m x 2m where the test pit will be excavated. After evaluation of the gravet the test pit will be closed.
Phase 3	A bulk sample to a total of 30 600m² gravel will be taken, consisting of trenches 10 x 60 x \pm 3m (deep). With the average gravel depth of 3m, 17 trenches will be needed to get to 30 600m². These trenches will be \pm 100 m apart from each other; the envisaged positions of the trenches will be tendicated on a map at the end of Phase 3. The topsoli will be removed with an excavator and stored on a separate stockpile for rehabilitation purposes. The overfurden will then be stripped and placed on the side of the excavation. The gravel is then removed with an excavator and transported with a frond end loader to the washing plant consisting of 2 x 14 feet pans. The puddle is washed directly back into the excavation. The rough out of the pan will also be put directly back into the open excavations. The concentrate out of the pan will be sorted by hand where the diamonds will be recovered and the grade of the prospecting area determined. The processing of 30 600m² will take about 36 months for Phase 3.	

Table 4: Technical data detailing the prospecting method

Phase	Activity (what are the octourses that are plumed to solvine optimal prospecting)	SkRI(s) required (refers to the competent personnel that will be employed to withink the required results)	Timeframe (in months) for the netwidy)	Outcome (What is the expected deliverable, e.g.) Geological report, analytical results, leastbally endly, etc.)	Timeframe for outcome (deading for the expected outcome to be (solvered)	What technical expert will sign off on the outcome? (no geologist moving engineer, turveyor, economist, osc)
1	Geological surveys	Geologist	1-3	Maps of possible target areas.	From month 3	Geologist
2	Test pits	Excavator operator & Manager(applicant)	4 - 12	Areas where alluvial diamond gravel is found will be identified	From month 12	Experienced applicant
3	Bulk Sampling	Excavator operator; Frond end loader operator; Washing pan operators & Manager	13 - 48	Diamonds found from bulk sample will be evaluated in terms of carats/100ton and value in \$/carat.	From month 13 - 48	Experienced manager and applicant.

e) Policy and Legislative Context

e) Folicy and Legislative Context	
APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE
La description of this policy and hybidative curtical within which this development in proposed including an electrification of set legiciation, policies, glades, guidelines, spatial tools, municipal development planning frameworks an instruments that are applicable to this advists and are to be considered in the assessment process?	APPLIED
National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA)	Activity 21, listing 1
Submitted for Environmental Authorizations in forms of the National Environmental Management Act, 1999 and the National Environmental Management Wasto Act, 2008 in respect of Listed Activities	Activity 21. Listing 2
that has been triggered by applications in terms of the Minerals and Potroloum Resources Development Act, 2002 (As mentioned).	i
National Environmental Management Act, 1998 (Act 107 of 1998):	Regulation 21
Environmental Impact Assessment Regulations, 2014 (G38282 ~ R982-985)	1
KA Authorization and EIAEMP. Submit documents that will document the will document that will document the will document that will document the will document that will document the will do	1
Compliance to Act and Regulations during course of activities. Show impacts and mitigation thereof.	i 1
National Water Act, 1998 (Act 36 of 1998)	Section 21 (a)
Application for Water statistical for prospecting use	1
	Section 29
Complaines to Act and Regulations during course of actuation. Stabilization of and after reliable to be runtemable with no expect. Conditioned declared weeds	<u> </u>
National Heritages Resources Act, 1999 (Act 25 of 1999)	Section 36
Complainte to Act and Purjulations during course of extention Statum shall no growns or horizing sale will be identified.	1

f) Need and desirability of the proposed activities.

(Motivate the need and desirability of the proposed development including the need and desirability of the adjivity in the context of the preferred position).

The applicant believes that the applied area has prospects for alluvial diamonds and associate minerals as applied for. There is an existing Mining Permit which did show potential for Alluvial diamonds thus the extension in order to confirm if minerals can be located on these specific farm portions. The desirability of this project can be motivated as the application area is not within or nearby an sensitive environmental areas and the impact that will be caused by the activity can be properly mitigated and rehabilitated. This area within Lichtenburg district is historically well known to alluvial diamond mining which make it also more desirable. The locality of the activities is over the entire farm portions. The specific activities as listed will be on certain portions over the application area. The geological surveys of phase 1 will determine the specific location for the test pits of phase 2. Where gravel was found with the test pitting of phase 2 is where the trenching of phase 3 will take place.

The duration of the activities will be 4 years.

g) Motivation for the preferred development footprint within the approved site including a full description of the process followed to reach the proposed development footprint within the approved 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.

The application area shows potential for the applied minerals thus these specific areas need to be prospected. The portions over which the application was applied for is over an area what was previously worked and which is currently under natural veld. It is envisaged that the disturbance which will be over natural veld area. The farm structures found on site are entrance roads, farm buildings, cement dams for animal watering and workers houses. Access to the farm is gained by existing farm roads from the Lichtenburg/Koster tar road (R52); see Figure 3 – Google Earth Images for more detail. Only a small portion of the land will be impacted upon at any given time and land use on the rest of the surrounding area can proceed normally. The area will be bulk sampled and rehabilitated. The prospecting focus area will be over natural veld.

i. Details of the development footprint alternatives considered.

With reference to the after plan provided as Appondix 1 and the localion of the individual activities on site, provide details of the alternatives considered with respect to.

Since it is a rural area and the local grow and development in this area is very slowly. Prospecting operation like this contributes a lot to local economic growth and work opportunities in such a rural area. As can be seen on Figure 3, the current land use is agricultural and is being utilized as natural grazing. The option to explore the possibility for prospecting is an alternative land use. The applicant, **Buitehof Boerdery CC** are not interested in any other alternative land use over this land aside for the exploration of the said minerals, or any other activity, or method use other than prospecting in the conventional way, which is the most cost effective.

(a) the property on which or location where it is proposed to undertake the activity There are no alternative for the property as the application is for this area only.

(b) the type of activity to be undertaken

The type of activity is in line with the submitted Prospecting Programme.

(c) the design or layout of the activity

The layout of the activity will and can only be on the application area as per sketch plan. The footprint of the actual disturbance on site does have the alternative where the puddle can be deposited onto a puddle dam or back into the excavations whereby the latter will have a smaller footprint,

(d) the technology to be used in the activity

The technology used in the activity will as described in the Prospecting Programme and the best options will be determined by the applicant. The footprint of the actual disturbance on site does have the alternative where the puddle can be deposited onto a puddle dam or back into the excavations whereby the latter will have a smaller footprint. The puddle dam method however can lead to quicker rehabilitation and re-use of the land for grazing as the excavations are backfilled with dry material and immediately rehabilitated.

(e) the operational aspects of the activity, and

The operational aspect is only the prospecting for Alluvial Diamonds, Diamonds in Kimberlite, Manganese Ore, and Stone Aggregate from Waste dumps and Sand (general) on this specific area.

(f) the option of not implementing the activity

This option might only be possible if the applicant decide to abandon the project.

ii) Details of the Public Participation Process Followed

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

The process as described by NEMA for Environmental Authorization was followed. See **Table 5, 6 & 7** below for the identification of Interested and Affected Parties to be consulted with. The landowner (PJ de Beer) and the direct neighbours were consulted personally and through a letter that was given to them by hand. A site notice was placed at the entrance gate of the farm. With this site notice all passers-by are requested to submit any written comments to be forwarded to the consultant (still awaiting response). A notice was also published in the Stellalander Newspaper of 10 October 2018 and again on the 12th December 2018, response is also awaited. Public meeting will be held at the Maquassi Hills Municipality 12 October 2018 and again on the 14th December 2018. See proof of consultation under **Appendix 2**. The Public Participation process is still on going and the documents will be updated as more feedback is received back.

Appendix 2 -- Proof of consultation.

Table 5: Description of process to be undertaken to consult interested and affected parties

IDENTIFICATION CRITERIA	Mark with an	X where applicable
	YES	NO
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	Х	
Will a tribal authority or host community that may be affected be consulted?		
Will recipients of land claims in respect of the area be consulted?	X	
Will the landowners or lawful occupiers of neighboring properties been identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 meters of the area be consulted?		X
Will Authorities responsible for public roads or railway lines within 100 meters of the area applied for be	1	X

With authorities, responsible for any other infrastructure within 100 meters of the area applied for be consulted? (Specify)		X
Will the Provincial Department responsible for the environment be consulted?	<u> </u>	
Will all of the parties identified above be provided with a description of the proposed mining /mining operation as	. X	
referred above?	_	
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it	X	
be socio-economic, cultural, heritage or environmental) will be affected by the proposed prospecting project?		
Other Specify		

Table 6: Details of the engagement process to be followed.

Table 6: Details of the en	igagement process to be followed.
Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one or one consultation. Not the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice and copies of adverticements and notices notifying potentially interested and affected parties of the proposed application are attached as Appendix 2).	PROVIDE DESCRIPTION HERE The applicant did receive the consent of the landowner. The neighbors will be informed personally consulted by the applicant and confirmed in the writing. A consultation tetter was being sent to the Local Municipality. An advertisement was placed in the local newspaper for comments and a public meeting was held.
Information to be provided to interested and Affected Parties.	Compulsory The site plan. List of activities to be authorized Scale and extent of activities to be authorized Typical impacts of activities to be authorized (e.g. surface disturbance, dust, noise, drainage, fly rock etc.) The duration of the activity. Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land) Other, specify: a prospecting works programme
Information to be required from Interested and Affected Parties.	Compulsory To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity To provide information on current land uses and their location within the area under consideration To provide information on the location of environmental features on site to make proposals as to how and to what standard the impacts on site can be remedied, requested to make written proposals To mitigate the potential impacts on their socio economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied). Other, Specify

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Summary of issues raised by I & AP's (Complete the table summarizing comments and issues raised, and reaction to those responses)

Table 7: Summary of I & AP's consultation

Injerested and Affects Darbins	Pate sent andlar	costoo valood	Eddle speness to the nextiness
List law manes of persons conculed in his ocham, and Mark with as "X" where those who must be consuled were in fact cossulad.	Comments		110111111111111111111111111111111111111
AFFECTED PARTIES			
Landowneris	X	And the second s	
Builehof Boerdery CC A. dis Preez P.O. Box 365, Lichtenburg, 2740 Tet: 082 335 2154; E-mail: buitehof@absamail.co.za Landowner and applicant on the farm Klipbankfontein}	4 Aug 2018 12 Sep 2018	No objection as the applicant is also the landowner	
Lawful occupier/s of the land			
Landowners or lawful occupiers on adjacent properties	X		
Mr. W.H. &s Preez P.O. Box 892, Lichtenburg, 2740 Cell: 082 706 3802, E-mail: weuterdp@rodamail.co.za (Neighbour)	4 August 2018 1\$ Oct 2018	No objection, see signed considiation letter attached.	
R.Roode Familie Trust Rudi Roode P.O. Box 3252, Lichtenburg, 2740 Cell: 082 464 6941, Tel: 018 632 1090; E-mai: pr <u>roode@netactive.co za</u> (Neighbour on the farm Wakpan)	4 Aug 2018 11 Oct 2018	No objection See signed consultation letter	
Menicipal councilor	×		
Menicipality	X		
Cissobotia Local Náunicipašíy Marricpal Manager: Mr. M. Juta (acting) € ax: 018 532 5247 — e-mail: info@disobotia.gov.za	13 Aug 2018	Fax sent no response E-mail sent to Mr. Juta	No continents
Organs of state (Responsible for infrastructure that may be affected Roads Department, Eskom, Telkom, DWA.			
Eskon			
Chillifushings and the same and			
Dept. Rural Development and Land Reform	X		
Wr. Keatheswe Mothupi, Office of the Regional Land Claims Commissioner, N.W. Province; Private Bag X08, Mmabetro, 2735; Fax: 018 389 9541 John Mototo Tex: 018 388 9541 John Mototo Tex: 018 388 7000	13 Aug 2018 16 Aug 2018	Acknowkedgment received Comments received – Existing land daim	At John Mofoko has confirmed that we do not resed to consult with the claimant as the claim is still in process and the claim is between the applicant and DRIDE.R. Between the applicant and DRIDE.R. He said DMR can contact him for any inquiries.
Traditional Leaders			

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Dept. Rural, Environment and Agricultural Development	×		
Osima Skosana Agricante Buildirg, Car James Moroka & Stadium Road, Minabatho, 2735 Tel: 018 389 5035; E-mail: <u>oskosana@mvpg.gov.za</u>	19 February 2019	EMPFEIA sent with Fastway couriers for comments	No connents received
Dept. Water and Sanitation	×		
Clement Makweta Cnr Dr. James Moroka Déve & Sekame Road, Mega City Complex, Unit 99, Mmabatho, 2735 Tel: 073 186 (MRB: E-mail: makwelac@dvra oov za	19 February 2019	EMP/EIA sent with Fastway coxiders for conments	No comments received
Dept. Agriculture, Forestry and Fisherles	~		
Maurice Vukeya Louis le Grange Building, Chr Peter Mokaba & Wolmarans street, 3º⁵ Floor, Office nr 318, Potchefstroam, 2520 Tet: 018 294 3343; E-mail: MauriceV@daff.gov.za	19 February 2019	EMP/EIA sent with Festway contriers for comments	ko comments received
	×		
Other Competent Authorities	×		
OTHER AFFECTED PARTIES			
MIERESTED PARTIES	A NAMES AND A STATE OF THE STAT		

Notice published in the Stellalander Newspaper of 17 August 2018 & 1 March 2019.

iv) The Environmental attributes associated with the alternatives.

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

(1) Baseline Environment

(a) Type of environment affected by the proposed activity. (Its ourent geographical, physical, biological, scool-economic, and cultural character).

Description of the baseline environment

The purpose of this section is to provide information on the environment in which the proposed prospecting activities will take place, with a view to identify sensitive issues/areas, which need to be considered when conducting the impact assessment. The application is over the: *Katdoornplaat 1 HP* (*Port. 7, 8, 9 & 10*) & *Klipfontein 311 IP* (*Port. 10*). This area is utilized for grazing for cattle, all cultivated field looks to be withdrawn form cultivation.

Magisterial District:

Lichtenburg.

Direction from neighbouring town:

The driving direction and distance to proposed application area is 31 min (29.6 km) via N12. From SAPS Lichtenburg, 36 Piet Retief Street, Lichtenburg, 2630. Take Leask Street to N12/R504 drive for 300 m. Drive for 20.7 km. The proposed site would be on either side after in 8.6 km.

Longitude (approximate center of prospecting site):

26.99634° E

<u>Latitude</u> (approximate center of prospecting site):

-26.01208° S

Existing Surface Infrastructure:

The farm structures found on site are entrance roads, farm buildings, cement dams for animal watering and workers houses. Access to the farm is gained via a gravel road from the N12 national road between Klerksdorp and Lichtenburg. See Figure 3 for Google Earth Images of application area.

According to VEGMAP (2006) the area falls within the (Gh 13) Kierksdorp Thornveld. vt 50 Dry Cymbopogan-Themeda Veid (44%), VT 19 Sourish Mixed Bushveid (29%) (Acocks 1953). LR 37 Dry Sandy Highveid Grassland (70%) (Low & Rebelo 1996).

<u>Distribution:</u> North-West Province: In two sets of patches, one in the Lichtenburg, Ottosdal and Hartbeesfontein region, and the other from the Botsolano Game Park north of Mafikeng to the vicinity of Madibogo in the south. Altitude 1 260-1 580 m. [See **Figure 5** below].

Vegetation [Flora] and Landscape Features:

Plains or slightly irregular undulating plains with open to dense Acacia karroo bush clumps in dry grassland.

Climate:

Warm-temperate, summer-rainfall region, with over-all MAP of 533 mm. Summer temperatures is high. Frequent frosts occur in winter.

Geology & Soil:

Shale, slate and quartzite of the Pretoria Group with interlaid diabase sills and Hekpoort lava supporting relatively shallow and rocky soils (Glenrosa and Mispah forms), typical of the Fb land type. Equally represented are eutrophic red plinthic soils (Hutton form), derived mainly from a thick succession of volcanics and sediments of the Ventersdorp Supergroup (BC land type). Bd and Ae of minor occurrence.

Important Taxa - Small Trees: Acacia karroo (d), A. caffra, Celtis africana, Rhus lancea, Ziziphus mucronata, Tall Shrubs: Acacia hebeclada, Diospyros lycioides subsp. lycioides, Ehretia rigida, Grewia flava, Gymnosporia buxifolia, Rhus pyroides, Tarchonanthus camphoratus. Woody Climber: Asparagus africanus. Low Shrubs: Asparagus laricinus (d), A. suaveolens (d). Felicia muricata (d), Anthospermum hispidulum, A. rigidum subsp. pumilum, Aptosimum elongatum, Gnidia capitata, Gomphocarpus fruticosus subsp. fruticosus, Helichrysum dregeanum, Leucas capensis, Pavonia burchellii, Pentzia globosa, Solanum supinum var. supinum, Triumfetta sonderi. Ziziphus zeyheriana. Graminoids: Aristida congesta (d), Cynodon dactylon (d), Eragrostis lehmanniana (d), E. trichophora (d), Microchloa caffra (d), Panicum coloratum (d), Sporobolus fimbriatus (d), Themeda triandra (d), Andropogon schirensis, Anthephora pubescens, Aristida junciformis subsp. galpinii, A. stipitata subsp. graciliflora, Brachiaria nigropedata, B. serrata, Bulbostylis burchellii, Cymbopogon pospischilii, Digitaria eriantha, Diheteropogon amplectens, Elionurus muticus, Eragrostis curvyla, E. obtusa, E. racemosa, E. superba, Eustachys paspaloides, Heteropogon contortus, Setaria sphacelata, Sporobolus africanus, Tragus berteronianus, Trichoneura grandiglumis. andropogonoides. Herbs: Acalypha angustata, Acanthospermum australe, Berkheya onopordifolia var. onopordifolia, B. setifera, Blepharis integrifolia var. clarkei, Chamaesvce inaequilatera, Chascanum adenostachvum, Dicoma macrocephala, Helichrysum nudifolium var. nudifolium. Hermannia lancifolia, Hibiscus pusillris, Justicia anagalloides, Lippia scaberima, Nidorella microcephala, Nolletia ciliaris, Pollichia campestris, Rhynchosia adenodes, Salvia radula, Selago densiflora, Teucrium trifidum, Tolpis capensis. Geophytic Herbs: Bulbine narcissifolia, Ledebouria marginata, Ornithogalum tenuifolium subsp. tenuifolium, Raphionacme hirsuta. Herbaceous Climber: Rhynchosia venulosa... Conservation status: Vulnerable, Target 24%, Only about 2.5% conserved in the statutory Mafikeng Game Reserve, private Botsolano Game Park and Faan Meintjes Nature Reserve. Almost a third already transformed for cultivation and by urban sprawl. This vegetation unit has a high grazing capacity and this leads to overutilisation and degradation, and subsequent invasion of Acacia karroo into adjacent dry grassland. Due to the great habitat and floristic diversity and for aesthetical reasons, the landscape deserves to be conserved. References Louw (1951), Morris (1973, 1976), Bredenkamp & Bezuidenhout (1990), Bezuidenhout (1993), Bezuidenhout et al. (1994c, d).



Figure 5 - The VEGMAP classification: Klerksdorp Thornveld [Gh 13]

Animal Life [Fauna]:

Small animals common in this area are: Steenbuck, Duiker, Jackal and Meer cats.

Topography:

Plains or slightly irregular undulating plains with open to dense Acacia karroo bush clumps in dry grassland. The slope varies around <0.1% to not more than 3%.

Surface Water:

This application area fall within the water management area of the Middle Vaal (9) and secondary catchment area C25 and tertiary drainage region C25D. There are a non-perennial stream that flow over the application area, but it is foreseen that this water body will only have mentionable flow during the rainfall season. Prospecting on this site are not foreseen to have any direct influence of impact on any surface water body, as long as all prospecting related activities are kept 100 meters horizontally away for this surface water body. There are further no other open water or streams within the application area.

Ground Water:

There are boreholes on the application area used for stock watering by the landowner. The applicant intends to use water from these current boreholes. The water uses will be 100m³ a day for the primary processing in the bulk sampling phase.

Air Quality:

The impact on air quality will only start with the bulk sample where dust from excavating and from the roads will occur. This impact will be low and will be monitored and mitigated trough wetting of the roads.

Noise:

The impact of noise will only start with the bulk sample where noise from the prospecting equipment will be generated. This operation will only be in day time working hours and will have a low impact on current surroundings.

Sites of Archaeological and Cultural Interest:

No graveyard was identified on the application area, but also within the envisaged bulk sample area. According to Section 36(3) of the National Heritage Resources Act 25 of 1999 no person may, without a permit issued by SAHRA or a provincial heritage resources authority—

- (a)destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;
- (b) destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or
- (b) bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation equipment, or any equipment which assists in the detection or recovery of metals.

It is recommended that the graveyard is included in the overall management plan of the mine development. Preservation of the site will require that the area is properly demarcated with at least a 20m buffer zone placed around the graveyard in order to avoid potential damage during prospecting activities. It will be necessary to ensure that the graveyard is accessible to the relatives of the deceased. There are no major archaeological grounds to halt the proposed development. However, the potential occurrence of unmarked graves or subsurface finds not recorded during this survey can never be excluded, so it is advised that SAHRA and a qualified archaeologist are informed immediately if archaeological objects are uncovered.

Sensitive Landscapes

There are no sensitive areas that were identified on the application area.

Visual Aspects

These prospecting activities will only be visible to the motorist traveling on the local farm roads or neighbours if the prospecting operation is next to the fence line. It is also not located next to any main tourist route.

Social

The proposed activity will employ 7 people, of which a few are resident around the operation. Various social amenities are available close to the operation. These include schools, hospitals churches, recreation facilities as well as a Police Station at Lichtenburg, which is located approximate 28 km west of the operation.

(b) Description of the current land uses.

The current land use is grazing for cattle, all cultivated field looks to be withdrawn form cultivation. The majority of the application area is used for grazing; however the natural grasslands and biodiversity have been affected and altered by agricultural activities.

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

Please refer to Section 2 (d)(ii)**Table 2** for a description of the activities and the infrastructure which are foreseen to form part of the proposed activity. The existing infrastructure on site consists out of existing entrance roads, farm buildings. The environmental features are mainly natural grazing. There are no wetlands or rivers running through the application area.

(d) Environmental and current land use map.

(Show all environmental, and current land use features)

Current land use of the application area is grazing for cattle, all cultivated field looks to be withdrawn form cultivation. See **Appendix 1** [Infrastructure Map] for more detail.

v) 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 implactable loss of resources, and can be avoided, managed or mitigated).

The proposed project is anticipated to impact on a range of biophysical and socio-economic aspects of the environment. The main purpose of the EMP/EIA is to identify and evaluate the significance of these potential impacts and determine how they can be minimized or mitigated.

It should be noted that a comprehensive Environmental Management Program (EMPr) will be developed and implemented to regulate and minimize the direct, indirect and cumulative impacts during the construction and operational phases. The potential environmental impacts identified during the Scoping Phase, which will be investigated further in the Impact Assessment Phase of the project are summarized in **Table 8** on the next page.

ElAr/EMPr - Buitehof Boerdery CC - Klipbankfontein alias Manana 26 IP - AW305511/12/12421 PR

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vi) Methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks:

(Describe how the significance, probabity, and duration of the eforesed identified impacts that wore identified through the consultation process was determined in order to decide the extent to which the initial site is yout needs revision).

I. Introduction:

Table 9 describes and evaluates the effects of the different prospecting projects and the associated activities on the natural and social environments. The different environmental components, on which the project (can/may) have an impact, are:

1.	Geology		
2.	Topography	10.	Air Quality
3.	Soil	11.	Noise
4.	Land Capability	12.	Archaeological and Cultural sites
5.	Land Use	13.	Sensitive Landscapes
6.	Vegetation	14.	Visual Aspects
7.	Wildlife	15.	Socio-economic Structure
8.	Surface Water	16.	Interested and Affected Parties
9.	Ground Water		

MPACT ASSESSMENT

Before the impact assessment could be done the different project activities were identified:

ACTIVITIES:

- 1. Access Roads (Existing farm roads to be upgraded)
- 2. Temporary office, workshops, ablution facility, water tanks, diesel tanks, and other temporary buildings
- 3. Prospecting equipment (conveyor, drum screen, washing pans, generator)
- Stockpiles
- 5. Overburden dumps
- Opencast trenches (as part of bulk sampling)
- 7. Tailings dam (porrel dam)

II. Environmental Impact Assessment Summary:

Environment likely to be affected by the prospecting operation. (See Appendix 1(a) for location)

THE PERSON NAMED OF THE PE			TO STATE OF THE PARTY OF THE PA
Environmental aspect	Affec	sted	Not affected
	Negligible	Substantial	.
1. GEOLOGY		X	
2. TOPOGRAPHY	X		
3, SOIL		X	
4. LAND CAPABILITY		X	
5. LAND USE	X		
6. VEGETATION		X	
7. WILDLIFE	X		
8. SURFACE WATER			
9 GROUND WATER	<u> </u>		
10. AIR QUALITY	<u> </u>		
11. NOISE	<u> </u>		
12. SENSITIVE LANDSCAPES	•		X
13. VISUAL ASPECTS	<u> </u>		
14. SOCIO ECONOMICS) X		
15. INTERESTED & AFFECTED PARTIES	X X		
Ì 16, ARCHAEOLOGICAL	1	1	X

Environment likely to be affected by the alternative land use

Prospecting will be a new land use over this area. The site that is earmarked for prospecting represents \pm 1 % of the total area applied for. And it is further not foreseen that prospecting activities would disturbed an area of not more than 0.5 ha at any given time. The rest of the terrain would continue to be used for agriculture purposes by the landowner.

Assessment of the impacts created by the prospecting activity

Before any assessment can be made the following evaluation criteria need to be described:

Explanation of probability of impact occurrence

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Probability of impact occurrence	Explanation of probability
Very low	<20% sure of particular fact or likelihood of impact occurring.
Low	20 to 39% sure of particular fact or likelihood of impact occurring.
Moderate	40 to 59% sure of particular fact or likelihood of impact occurring.
High	60 to 79% sure of particular fact or likelihood of impact occurring.
Very high	80 to 99% sure of particular fact or likelihood of impact occurring.
Definite	100% sure of particular fact or likelihood of impact occurring.

Explanation of extent of impact

Market Control C. Carteria	THE COLUMN
Extend of Impact	Explanation of extend
Site specific	Direct and indirect impacts limited to site of impact only
Local	Direct and indirect impacts affecting environmental elements within the Lichtenburg area.
Regional	Direct and indirect impacts affecting environmental elements within North West Province.
National	Direct and indirect impacts affecting environmental etements on a national level
Global	Direct and indirect impacts affecting environmental elements on a global level.

Explanation of duration of impact

Duration of impact	Explanation of duration
Very short	Less than 1 year
Short	1 to 5 years
Medium	6 to 12 years
Long	13 to 50 years
Very long	Longer than 50 years
Permanent	Permanent

Explanation of impact significance

impact significance	Explanation of significance
No impact	There would be no impact at all - not even a very low impact on the system or any of its parts.
Very low	impact would be negligible. In the case of negative impacts, almost no mitigation and/or remedial activity would be needed, and any minor
	steps, which might be needed, would be easy, cheap and simple. In the case of positive impacts, alternative means would almost all likely
	to be better, in one or a number of ways, than this means of achieving the benefit.
Low	Impact would be of a low order and with little real effect. In the case of negative impacts, mitigation and/or remediat activity would be
	either easily achieved or little would be required, or both. In case of positive impacts, alternative means for achieving this benefit would
	likely be easier, cheaper, more effective, less time-consuming, or some combination of these.
Moderate significance	Impact would be real but not substantial within the bounds of those which could occur. In the case of negative impacts, miligation and/or
•	remedial activity would be both feasible and fairly easily possible. In the case of positive impacts, other means of achieving these benefits
	would be about equal in time, cost and effort.
High significance	Impacts of a substantial order. In the case of negative impacts, mitigation and/or remedial activity would be feasible but difficult,
	expensive, time-consuming or some combination of these. In the case of positive impacts, other means of achieving this benefit would be
	feasible, but these would be more difficult, expensive, time-consuming or some combination of these.
Very high significance	Of the highest order possible within the bounds of impacts which could occur. In the case of negative impacts, there would be no possible
	mitigation and/or remedial activity to offset the impact at the spatial or time scale for which it was predicted. In the case of positive
	impacts, there is no real alternative to achieving the benefit.

Table 9 describes and evaluates the effects of the different prospecting projects and the associated activities

ASPECT 1. GEOLOGY	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact	During operation wh Diamonds, Diamonds dumps and Sand (ger	ich will be for the next s in Kimberlite, Mangan neral)) will be extracted fro overburden material is dis	ing the opencast prospecti 4 years, the mineral res ese Ore, Stone Aggrega m altuvial deposits. posed off/backfilled in exist	ource Alluvial te from Waste	
Extent	Site			Activity causing the impact	
Duration	Permanent			An opencast prospecting method will be used to extract	
Probability	Definite				bulk samples. Therefore the original geology will be
Significance	High				totally destroyed.
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	
impact		X	X		

ASPECT 2. TOPOGRAPHY	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact	* Disturbance of the The prospecting of 3m or less), that ac Prospecting activities application area (as Normal surface dra	ite is situated on: level pl le surface drainage; the alluvial deposits will t as depressions in the e	result in the creation of tre environment that captures is indicated on Appendix it a given point.	run-off.	
Extent	Site				Activity causing the impact
Duration	Very long to Perma	nent			Bulk sampling trough trenches, etc.
Probability	Definite	Zear with the state of the stat			
Significance	High				
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	
impact		X	X	X	

3. SOIL	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact	The surface area is should be preceded	characterized by various so by the removal of all availa	oil depths. Any construction ble topsoil.	of infrastructure	
Extent	Site				Activity causing the impact
Duration	Long			in the process of removing topsoil the soil layers are	
Probability	High				mixed and the structure may be disturbed.
Significance	Moderate				
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	
impact		X	X		

3. SOIL	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact	listed structures suc soil. All prospecting where Alluvial Diam Waste dump and Si In the same time a surface area (aliena	construction, operation and that the access roads, sto g activities will be concentrationds. Diamonds in Kimber and (general) deposits coul certain surface area is there sted) would be restricted with or of the prospecting right of			
Extent	Site				Activity causing the impact
Duration	Long				Site preparation for additional prospecting sites and
Probability	High				the construction, operation of listed infrastructure.
Significance	Moderate				
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact	INDENIA CONTRACTOR CON	X	X	X	

ASPECT	IMPACTS			•	CUMULATIVE IMPACTS
3. SOIL					
Nature of the impact	would lead to lesse: bare disturbed surfa	the fact that certain surfact infiltration of rainwater and ices. Erosion would always uring rehabilitation phase.			
Extent	Site				Activity causing the Impact
Duration	Very short				When removing topsoil during site preparation, little
Probability	Very low				storm water control structures are in place. If a severe
Significance	Low				storm hits the area, it may lead to erosion on site.
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	Topsoil stockpiles may be prone to erosion due to lack
impact	101111111111111111111111111111111111111	X	of vegetation cover. Water control structures may fail or severe rainstorms may cause excessive run-off. Surface compaction due to activities taking place.		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
3, SOIL					
Nature of the impact	Potential of soil con	tamination.			None.
∉xtent	Site				Activity causing the impact
Duration	Long				Vehicle/equipment breakages and oil/lubricant /diesel
Probability	Moderate				spills may contaminate soit.
Significance	Moderate				
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact		X	X	X	

ASPECT 3. SOIL	17/17/7/#				CUMULATIVE IMPACTS
Nature of the impact	Loss of soil structure	3			None
Extent	Site				Activity causing the impact
Duration	Long				In the process of removing topsoil the soil layers are
Probability	High				mixed and the structure may be disturbed.
Significance	Moderate				
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact		X	X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
3.SOIL					
Nature of the impact	Loss of soil fertility				None
Extent	Şite				Activity causing the impact
Duration	Short				The mixing of soil during site preparation, compaction
Probability	Definite				and potential pollution (spillages form oil etc.) all may
Significance	Low				cause this situation.
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact		Х	X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
4.LAND CAPABILITY					
Nature of the impact	active prospecting equipment) etc. w All trenches would are back-filled. If the old areas be	of land capability to supp g activities occur (trenches, vili thus be temporary aliena d be rehabilitated as part of e re-worked this will make n will still be used by the lando			
Extent	Site				Activity causing the impact
Duration	Long				Site preparation for additional prospecting sites and
Probability	Definite				the construction, operation of listed infrastructure, the land capability of the active prospecting area will be
Significance	Moderate	NAME	totally destroyed.		
Phase responsible for the	Phase 1	Phase 2]		
impact		Х	Х	X	

ASPECT 5. LAND USE	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	a certain portion of to make more land available affected by the p	ecting operation and therefor the 185 ha during the next 4 silable for grazing. Only a s rospecting operation relatio renches would be rehabilita are back-filled	re-worked this will a at a time) would ght application		
Extent	Site				Activity causing the impact
Duration	Long to permanent				Site preparation for prospecting and the construction,
Probability	Delinite				operation of listed infrastructure
Significance	Moderate	•			
Phase responsible for the	Phase 1	Phase 2			
impact		Х	Χ		

ASPECT 6.VEGETATION	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact		e, disturbance and tramplin estem, bare ground and spr		WARNING TO THE TOTAL LOCAL CONTROL OF THE TOTAL CONTROL OT THE TOTAL CONTROL OF THE TOTAL CON	
Extent	Site				Activity causing the impact
Duration	Lang				The site preparation for new sites, construction of
Probability	Definite				listed infrastructure will cause destruction of habitats
Significance	High			for vegetation. Due to a disturbed ecosystem, bare	
Phase responsible for the	Phase 1	Phase 2	ground and invasion of exotics could further scread.		
impact		X	X		The vegetation needs to be cleared to remove the

ASPECT	IMPACTS			CUMULATIVE IMPACTS	
6.VEGETATION					
Nature of the impact	Habitat change, loss	of species, spread of alie	n and invasive species.		
Extent	Site				Activity causing the impact
Duration	Permanent				The change in the current habitat will be mitigated
Probability	High	ALLEN AND AND AND AND AND AND AND AND AND AN			during final rehabilitation.
Significance	Moderate	NOT THE REAL PROPERTY OF THE PARTY OF THE PA	32-WAC-92110-WAC-WAC-WAC-WAC-WAC-WAC-WAC-WAC-WAC-WAC		
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure]
impact		X	X]

ASPECT 6.VEGETATION	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact	Dust coverage of pla	mts.			None
Extent	Site				Activity causing the impact
Duration	Long				Heavy trucks and other vehicles on dirt roads,
Probability	High		The state of the s		stockpiling, dumping of tailings are mainly responsible
Significance	Low		THE PERSON NAMED IN COLUMN TO THE PE		for this impact.
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact		Χ	X		

ASPECT 7. WILDLIFE	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	Wildlife or wildlife h	abitat destruction /change /	disturbance.		None
Extent	Site				Activity causing the impact
Duration	Permanent				The flora which normally serves as habitat for animals
Probability	Very High				would be destroyed during site preparation. The
Significance	Moderate				increase in activity will temporarily scare other
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				animals. The area will serve as a new habitat after
impact		X	X		rehabilitation.

ASPECT	IMPACTS				CUMULATIVE IMPACTS
7. WILDLIFE					
Nature of the impact	Injury and death to w	vitdlife.			None
Extent	Site				Activity causing the impact
Duration	Short				The movement of vehicles may kill certain insects,
Probability	Very low				rodents and possible birds. Most of the remaining
Significance	Low			animal life will however move away due to noise.	
Phase responsible for the	Phase 1	Phase 2			
impact		Х	Х		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
7. WILDLIFE					
Nature of the impact	Restoration of habit	at.	None		
Extent	Site				Activity causing the Impact
Duration	Short				As rehabilitation progresses the habitat of certain
Probability	Low				species will be restored/created (Closure objective)
Significance	Low				Animals will probably only move back when human
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				movement is limited.
impact		X	X	1 x	

ASPECT	IMPACTS	'			CUMULATIVE IMPACTS
8. SURFACE WATER					
Nature of the impact	system and decrea	footprint areas can increas use buffering capacity of s icrease the risk of contami			
Extent	Local				Activity causing the impact
Duration	Short				The clearance of vegetation and the traffic on access
Probability	Moderate			THE PERSON NAMED OF THE PE	roads will all contribute to an increase in the silt toad
Significance	Moderate			on the prospecting area.	
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
Impact		X	Х	X	

ASPECT 8. SURFACE WATER	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	from the active pro regarding water qua Surface run-off from adequately contained If the natural surface	water quality. cles and also surface w specting excavations co- slity and hindering the pr a active prospecting site of on site could end-up is e run-off is not adequate ections it could become			
Extent	Local				Activity causing the impact
Duration	Short				"Dirty / Clean" water systems at facilities like the
Probability	Moderate		overburden dumps, roads, trenches, etc. may impact		
Significance	High	PARTICULAR PROPERTY AND ADDRESS OF THE PARTICULAR PROPERT	on the quality of the surface water. The water should be contained in the surface runoff control measures.		
Phase responsible for the	Phase 1	Phase 2	provided therefore.		
impact		Х	X		1

ASPECT 8. SURFACE WATER	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	The mine falls und catchment C31A. Notwithstanding the will have any effect	water quantity: It area (10): Lower Vaal Ier the primary drainage r above-mentioned facts, it on the boundaries or the gr enches could as the result			
Extent	Site			THE THE THE TAX AND THE TAX AND TAX AN	Activity causing the impact
Duration	Long				It is an operational objective to contain or divert all
Probability	High		surface run-offs from the active prospecting trenches		
Significance	High		area mainly due to pollution (sediment) potential. This		
Phase responsible for the	Phase 1	Phase 2	will reduce the run-off quantity, although small in		
impact		X	X		comparison with the drainage area in total.

ASPECT 9. GROUND WATER	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	area used during material can caus	ndwater quality ties are not likely to Impac the prospecting process. se various types of spills and contaminate of the gr			
Extent	Site				Activity causing the impact
Duration	Long				
Probability	Definite				
Significance	High				
Phase responsible for the	Phase 1	Phase 2			
impact		X	X	X	

9. GROUND WATER					
Nature of the impact			a minimal effect on the su		
			levels are expected to con-		
1			te water supply and prosp		
			Lit/hr) in comparison to of	her water use and will	
	have a small impact or	the surrounding ac	witer.	////	
Extent	Şite				Activity causing the impact
Duration	Long				Opencast prospecting operation.
Probability	Low			•	
Significance	High				
Phase responsible for the	Phase 1 Phas	e 2			
impact		X	Х	Χ	

ASPECT	IMPACTS	CUMULATIVE IMPACTS		
10. AIR QUALITY Nature of the impact	Dust will be generated during the prosper	an excavator on to a		
Nature of the impact	dump truck) and transportation to the pla gravel/dirt/farm roads. The processing of the gravel is a wet pro-			
Extent	Site			Activity causing the impact
Duration	Long			initial construction work with regard to
Probability	Moderate			infrastructure (roads) that involves earth moving
Significance	Moderate	equipment. During the phase 2, dust could be		
Phase responsible for the	Phase 1 Phase 2	generated as indicated during prospecting.		
impact	X	X	X	

ASPECT 11. NOISE POLLUTION	IMPACTS	CUMULATIVE IMPACTS
Nature of the Impact	Noise will be generated during the prospecting operation (loading with an excavator on to a dump truck) and transportation to the plant (conveyor, drum screen &washing pans). The mine itself is located in rural landscape. The impact would be of more importance regarding the direct worker environment that should adhere to the requirements in terms of the Mine Health and Safety Act.	
Extent	Local	Activity causing the impact
Duration	Long	Earth moving equipment and vehicles (trucks).
Probability	Definite	
Significance	Moderate	
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure	
impact	X X X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
12. ARCHAEOLOGICAL AND					
CULTURAL SITES Nature of the impact	The terrain is n will result in an	ot archaeologically vulnera y significant archaeological			
Extent	Site		Activity causing the impact		
Duration	Permanent		1	11 11 11 11	
Probability	Definite				
Significance	High				
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	
impact		Х			

ASPECT	IMPACTS				CUMULATIVE IMPACTS
13. SENSITIVE					
LANDSCAPE					
Nature of the impact	No sensitive landso	apes identified.			
Extent	Not applicable	•			Activity causing the impact
Duration	Not applicable				
Probability	Not applicable				
Significance	Not applicable				
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact					

ASPECT	IMPACTS		CUMULATIVE IMPACTS		
14.VISUAL ASPECTS					
Nature of the impact	Prospecting will on	ly be visible to the neig	peration is not visible to		
	from any tourist roa	:d.			.
Extent	Site				Activity causing the impact
Duration	Long				Diamond prospecting operation.
Probability	Definite				
Significance	Low				
Phase responsible for the	Phase 1	Phase 2			
impact		X	Х	X	

ASPECT	IMPACTS			CUMULATIVE IMPACTS	
15. SOCIO ECONOMICS					
Nature of the impact		 economic activity at local I 			The increase in socio-economic activity will add to
		If would ensure that approxi			the current growth and development in Lichtenburg
		creation plays a major i		onomic wellbeing of	already created by industry and prospecting.
		eir dependants in the Lichter			
	Once all prospecti	ng operations have ceased	t would definitely have a ne	gative impact.	
Extent	Local				Activity causing the impact
Ouration	Long				Additional employment opportunities created.
Probability	Definite				
Significance	High				
Phase responsible for the	Phase 1	Phase 2	Closure		
impact		X	X	Х	

ASPECT	IMPACTS		CUMULATIVE IMPACTS					
15. SOCIO ECONOMICS								
Nature of the impact		the landowners is visual in	The economic benefits in terms of investment and					
		cultural activities at any givi	the delivery of services in the North-West province					
	The applicant is also	the landowner.	will get an additional benefit from the project.					
Extent	Regional		Activity causing the impact					
Duration	Very Long		The state of the s					
Probability	High							
Significance	Moderate							
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure				
impact		X	X	X				

ASPECT 18. INTERESTED & AFFECTEDPARTIES	IMPACTS	***************************************			CUMULATIVE IMPACTS
Nature of the Impact	term benefits far out-w Loss of cattle due to fa	zation of the prospecting reight the current benefit alling of animals in mice a expected that could be			
Extent	Local		Activity causing the impact		
Duration	Long				
Probability	High				
Significance	High				
Phase responsible for	Phase 1	Phase 2	Phase 3	Closure	
the impact		X	X	X	

vii) 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 tayout compared to alternative layout options to accommodate concerns raised by affected parties)

In terms of the EIA regulations, consideration must be given to alternatives. Alternatives are different approaches and ways of meeting the need, purpose and objectives of a proposed activity. Alternatives may include a location site alternative, activity alternatives, processes or technology alternatives, temporal alternatives etc. the no-go alternative or option is also considered, as it provides the baseline against which the impacts or other alternatives may be compared.

There is not an alternative for the location as this is the specific area where the applicant believes minerals can be found. The only alternative will be whether what method of processing to be used, puddle into the pans (wet method) or puddle dam (dry tailings method).

The footprint of the actual disturbance on site does have the alternative where the puddle can be deposited onto a puddle dam or back into the excavations whereby the latter will have a smaller footprint. The puddle dam method however can lead to quicker rehabilitation and re-use of the land for grazing as the excavations are backfilled with dry material and immediately rehabilitated. The usage of a puddle dam (Dry method) can have a positive impact on the environment as the excavations can be rehabilitated and grassed on a concurrent immediate basis. The usage of wet method will have a smaller footprint but it will take longer to fully rehabilitate and go back to grazing.

On geographical the dry method, it will be a little bit more negative as there will be a stoped area of 2 - 3m high with closure. With wet method it will be flat. On heritage and cultural aspects there will be no effect of either of the methods. On biological the both the methods will be equal with very limited effects. On economical the dry tailings will have a bigger capital expense but as the rehabilitation can be finished quicker it will be financially better. On social aspect both these methods will have similar impacts as the same amount of workers will be used.

However, for this specific project, no alternatives have been investigated, with the exception of the nogo alternative. The reason for this being that the prospecting right is being applied for the sole purpose of prospecting for the said minerals as listed in the PWP. The no-go option entails the continuation of the current land use (natural grazing and agricultural activities) on the study site. The project will contribute towards providing continued jobs for current staff. Should the proposed project therefore not be authorized to proceed, it is anticipated that current employment opportunities will be terminated once the mineral reserves have been depleted. The no-go option is therefore not a feasible option in this case, as it suggests that the mineral reserves should not be exploited and current employment opportunities should not materialize or be prolonged.

viii) 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).

Refer to the results of consultation contained as **Appendix 2** for the issues that were raised by I&AP's and stakeholders during the review period of the Consultation phase, as well as the response to those issues made by the Environmental Assessment Practitioner.

The mitigation measures and technical management action plans which address potential impacts are discussed below.

Environmental Component

Geology

Environmental Management/Mitigation Measures/Action Plans/Commitments

- No mitigation exists except to backfill the excavations with the rock waste material and fine tailings.
- As prospecting progressed and the excavation has been back-filled, a certain amount of overburden material and topsoil would be placed on these areas.
 This will not restore the geology, but will mitigate the impact.
 - Planned, systematic and thorough prospecting of the mineral resource (Alluvial Diamonds, Diamonds in Kimberite, Manganese Ore, Stone Aggregate from Waste dumps and Sand (general)) should take place.
- Optimal utilization of the mineral resource should take place within the boundaries of the prospecting terrain.
- Strip, remove and store soil and overburden as far as practical in an orderly fashion and replace as far as possible on back-filled areas, in the reverse order
 once decision have been taken that no further prospecting would take place in a particular section or which might still be traversed by vehicles and disturbed
 in the process. Cognisance should be taken of the fact that bulk sampling would take place by means of an opencast prospecting method until such level is
 reach / cut-off point is reach where rehabilitation could begin.
- Care must be taken that the removal of alluvial deposits by means of earthmoving equipment is restricted to what is really necessary to achieve the objective.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

Optimal exploration of the mineral resource in order to ensure to facilitate better rehabilitation planning. The overburden and topsoil (where available) must be replaced in a responsible and planned manner in order to achieve some conformity with the surrounding undisturbed area.

Environmental Component

Topography

Environmental Management/Mitigation Measures/Action Plans/Commitments

- All trenches should be back-filled with waste tailings material and eventually overburden material, covered with a shaftow layer of topsoif (if available).
- Access to all active bulk sampling excavation areas should be controlled. The active bulk sampling area should be fenced off. The necessary warning signs should be put in place. All prospecting activities should be restricted to the fenced-off area.
- Surface run-off control should be put in place at active trenches (preventing water from entering) and also rehabilitated tailings dumps and overburden dumps in order to prevent the loss of growth medium on top of the dumps.

Prospecting would be done according to a definite PWP (only disturbing an area that is really necessary). As part of the PWP the handling of tailings material, overburden material, construction of dumps and back-filling of trenches should also form part of it.

Rehabilitation of the new topographical landscape in such a way that it would blend in with the surrounding landscape and allow normal surface drainage to continue. As soon as a section of the prospecting site would not be explored anymore it should be rehabilitated (planned and phased manner).

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/E/A.

Closure Objective

Rehabilitation of the new and old disturbances topographical landscape in such a way that it would blend in with the surrounding landscape and allow normal surface drainage to continue. Rehabilitation in such a way that the new landscape features would be stable and would not pose any safety hazard to human and animal anymore.

Environmental Component

Soil (topsoil & access roads)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Handling of topsoil as a natural resource:

Any future expansion of the trenches or construction of infrastructure should be preceded by the removal of all available topsoil.

The surface of any new areas to be disturbed must be kept to a minimum. All available topsoil/overburden material should be removed and stockpited for rehabilitation purposes.

Access roads, etc:

The clearing of soil surface areas would be restricted to what is really necessary for the construction of infrastructure.

Wherever possible all topsoil should be removed and stockpiled for rehabilitation purposes. Overburden material should also be stockpiled separately if practically possible. Topsoil and overburden material should be transported to an area earmarked for rehabilitation.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA.

Closure Objective

The topsoil removed in the site preparation process should be replaced during the rehabilitation exercise.

Environmental Component

Soil (soil compaction)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Soil compaction:

The prospecting operation should only be restricted to what is really required (demarcated area of exploitation) within the fenced-off area. Access roads towards the sites would be restricted only to the roads (exiting farm roads & roads established in consultation with the surface owner). No land would be disturbed unnecessarily.

Prospecting& rehabilitation should be done in a well-planned manner (according to a PWP) and in the process ensuring that activities are only restricted to surface areas really required.

Compaction of soil surface areas would be alleviated once rehabilitation of certain area starts. Certain roads would probably remain for access (in consultation with the surface owner). Those that would not be required would be ripped and rehabilitated.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

Affeviation of compaction of soils would be done during rehabilitation of the prospecting terrain, including roads

Environmental Component

Soil (Soil erosion)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Soil Fresion

To take preventive steps against land disturbance like erosion, implement and maintain cut-off trenches/berms to prevent erosion.

Re-vegetation of exposed soil surfaces (man-made surfaces on tallings dumps, overburden dumps, disturb surfaces in excavated sites, roads, etc) should happen as soon as a particular activity has ceased in order to act as a sufficient erosion provention measure.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

No soil erosion must be visible and no potential for soil erosion must be present at closure.

Environmental Component

Soil (Soll contamination)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Potential for soil contamination:

Vehicles to be inspected to ensure no oil and hydraulic fluid leaks occur.

All oil spills on soil to be removed and bio-remediate immediately (certain commercial products are available such as Terrasorb or it could be rehabilitated by means of the application of fertilizer and turn with a spade from time to time in order to enhance the natural occurring soil microbial activity).

No servicing of vehicles must occur except on a concrete floor or over PVC lined area in an area allocated for that. Training w.r.t pollution hazards and their impact on the environment must be given as part of induction training.

An incidence register for this purpose must be kept.

Drip trays must be available and used where emergency repairs is done

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

No soil contamination must be visible or known before closure can be given.

Environmental Component

Soil (Soll structure)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Change in Soil structure:

Ensure that all available (if any) topsoil is carefully removed in different areas.

The soil must also be compacted as backfilling is done.

No unnecessary driving outside the active prospecting area is allowed due to soil compaction that may occur.

Use organic material e.g. manure to restore the soil structure during rehabilitation.

Ensure that the rehabilitation plan makes provision for ripping of roads and spreading of organic material and that this is used during rehabilitation.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA.

Closure Objective

No compaction of any roads or any other area must be present during closure. If the soil structure is disturbed militigation measures e.g. the use of organic material, lime and fertilizers must be implemented to restore the soil structure.

Environmental Component

Soli (Soli fertility)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Soil fertility:

Little can be done to preserve the moisture status of the soil once it is exposed. The soil must be used for rehabilitation as quickly as possible.

The soil on the rehabilitated area must be analysed to determine the deficiencies and fertilizer and lime must be ploughed into the soil to restore its fertility, if necessary.

Ensure that stockpiled soil is kept clean and where possible ensure that the topsoil is treated with organic material and fertilized.

Do not use stockpiled soil for any other purpose but for rehabilitation.

Do not use topsoil to construct roads.

Ensure the rehabilitation plan makes provision for fertiliser.

Make sure rehabilitated topsoit is analyzed in a laboratory. The type of fertilizer would depend on a soil analyses and fertilizer recommendation.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

The soil must be fertile enough to sustain vegetation.

Environmental Component

Land Capability

Environmental Management/Mitigation Measures/Action Plans/Commitments

The disturbance of land must be restricted (kept to a minimum) to the planned fenced-off, active prospecting site only. Remove topsoil where it is available. Take care that roads needed are restricted to one entry to the area for prospecting purposes. If new land is used for roads to enter the area it must be done in consultation with the surface owner.

All rehabilitation will be done according to the final rehabilitation plans after approval by the Department of Mineral Resources (DMR). Topsoil will be placed in areas where it was removed and the areas will be re-vegetated accordingly. Ensure that the rehabilitation plan is implemented.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

Rehabilitated to the state that it is suitable for the predetermined and agreed land capability.

Environmental Component

Land Use

Environmental Management/Mitigation Measures/Action Plans/Commitments

The disturbance of land must be restricted (kept to a minimum) to the planned active, fenced-off prospecting site only. Remove topsoil where it is available. Take care that roads are the only areas used to enter the area for prospecting purposes. If new land is used for roads to enter the area it must be done in consultation with surface owner.

All rehabilitation will be done according to the final rehabilitation plans after approval by the Department of Mineral Resources (DMR). Topsoil will be placed in areas where it was removed and the areas will be re-vegetated accordingly. Ensure that the rehabilitation plan is implemented.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA.

Closure Objective

The opencast section requires the land to be totally disturbed. The replacement of tallings material, overburden and topsoil would ensure that the land is able to support some grazing.

Environmental Component

Vegetation

Environmental Management/Mitigation Measures/Action Plans/Commitments

No mitigation exists except to replace the vegetation by reseeding of grasses and natural growth.

Prospecting should be done in a well-planned manner (according to a PWP) and in the process ensuring that activities are only restricted to surface areas really required.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EtA

Closure Objective

During rehabilitation indigenous vegetation cover comprising of local plant species should be established in order to ensure a well-adapted sustainable plant cover that would be able to prevent erosion of the replaced topsoil on the disturbed prospecting site exposed surfaces, tailings dumps, etc.).

Environmental Component

Vegetation

Environmental Management/Mitigation Measures/Action Plans/Commitments

Habitat change, loss of species, spread of alien and invasive species:

No mitigation exists except to replace the vegetation by reseeding of grasses.

Prospecting should be done in a well-planned manner (according to a PWP) and in the process ensuring that activities are only restricted to surface areas really required.

Develop and implement an invasive and alien control programme to control the spread of weeds and other invasive species.

Eradicate exotic weeds and invader species if it invades the terrain. All filegal invader plants and weeds shall be eradicated as required in terms of Regulation 15 & 16 of the Act on Conservation of Agricultural Resources, 1983 (Act no. 43 of 1983) which list the plants.

An invasive and alien control programme must be implemented by the mine.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA.

Closure Objective

No invasive and alien species must be present after closure. A post-closure control program must also be implemented

Environmental Component

Vegetation

Environmental Management/Mitigation Measures/Action Plans/Commitments

Ensure that all roads on the prospecting site (utilized by prospecting vehicles) are daily sprayed with water to control dust.

Site inspections to ensure the spraying are done

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA.

Closure Objective

No excessive dust must be present during the normal growth season after closure.

Environmental Component

Wildlife (habitat)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Wildlife or wildlife habitat destruction /change / disturbance :

To take care that no new or unnecessary destruction of habitats, other than the demarcated prospecting site should take place.

Restoration of habitat:

Ensure the rehabilitation plan is implemented

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Oblective

The animal life habitat must be restored after decommissioning. Success will be measured against the extent to which the animals return to the area.

Environmental Component

Wildlife (Injury and death)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Injury and death to wildlife:

Re-establish trees and grass cover as soon as possible during and after prospecting. Fence area off to ensure that no person can enter without permission. Ensure that the rehabilitation plan is compiled and executed. Keep incidence register on killings and disturbances.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

The animal life habitat must be restored after decommissioning. Success will be measured against the extent to which the animals return to the area.

Environmental Component

Wildlife

Environmental Management/Mitigation Measures/Action Plans/Commitments

Make game catching, traps, snares, poaching and any other unnecessary disturbance of animals a disciplinary offence.

All staff must undergo basic environmental awareness lecture during induction training.

Machine operators and drivers to undergo appropriate level of environmental impact training to ensure they understand their impact on the environment. Ensure all staff working on the opencast section undergo basic lecture during induction phase.

introduce the actions as listed above into disciplinary code as offence.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

The post-closure phase must be suitable for further restoration of the newly man-made animal habitat. The area must be stable and acceptable for the return of animal- and plant life.

Environmental Component

Surface Water (quality)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Change in surface water quality:

Storm water control measures must be implemented to divert clean water away from the active prospecting site and keep contaminated water contained. Water control structures must be well designed and constructed to ensure a minimum down wash of topsoil.

Vegetation disturbance must be as little as possible.

The PWP must be strictly adhered to.

Re-vegetation to be done as quickly as possible. Final re-vegetation to be done as per rehabilitation plan

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

The post closure water run-off may in no circumstance impact negatively on the water quality.

Environmental Component

Surface Water (quantity)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Change in surface water quantity: Once the area is rehabilitated the surface run-off will be restored and normal clean water run-off will end-up in the drainage system.

Once the area is rehabilitated the normal surface run-off drainage will be restored according to rehabilitation plan. The disturbed surface area must be rehabilitated to ensure some normal drainage, Minimal run-off should end-up in trenches. Final rehabilitation will be done according to the final rehabilitation plans after approval by the Department of Mineral Resources.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

Ultimately rehabilitation of the disturbed prospecting site and the construction of run-off control structures in a planned and phased manner would ensure normal drainage and stability of rehabilitated site.

Environmental Component

Ground Water (quality)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Reduction of groundwater quality: Storm water control measures must be implemented to divert clean water away from the site and keep (sit) contaminated water contained.

Vehicles to be inspected to ensure no oil and hydraulic fluid leaks occur. All oil spills on soil to be removed and bio-remediate immediately. No servicing of vehicles must occur except at the workshops. Training w.r.t pollution hazards and their impact on the environment must be given as part of induction training. Storage of fuel and oil should be done according to best practices, within a bunded area and in containers of which the integrity is sound.

The prospecting processes will not introduce any harmful or toxic substances and the most likely sources of pollution to the groundwater system would be associated with the infrastructure and / or workshop area. The most likely contaminants is therefore nitrate and bacteria (from sewage / pit latrines), as well as hydrocarbons (from vehicle accidents, diesel storage and the workshop area).

An incidence register for this purpose must be kept.

Drip trays must be available and used where emergency repairs is done.

All waste must be stored according to best practices and disposed at an authorized waste disposal facility.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA.

Closure Objective

Post water quality need to indicate a positive trend/improvement.

Environmental Component

Ground Water (quantity)

Environmental Management/Mitigation Measures/Action Plans/Commitments

Reduction of groundwater quantity, lowering of groundwater levels water levels in the boreholes that are used for prospecting activities should be recorded monthly.

Water volumes should be recorded continuously to ensure compliance with the water use authorization for abstraction.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

Post water quality need to indicate a positive trend/improvement.

Environmental Component

Air Quality

Environmental Management/Mittigation Measures/Action Plans/Commitments

Dust: The prospecting method will serve as mitigation measure because prospecting will ilmit dust to the active prospecting area (area where the excavator and the bucks are operating).

Daily spraying of roads with water. Inspection should be done on a daily basis.

If new roads are constructed, in coordination with surface owner, dust pollution must be mitigated by means of spraying the roads with water.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

Dust count must be the same as before prospecting. Rehabilitation of the bulk sampling site would ensure that no dust is generated from exposed surfaces.

Environmental Component

Noise

Environmental Management/Mitigation Measures/Action Plans/Commitments

Ensure the required silencers are placed on all engines and compressors. No mitigation to reverse hooters is allowed due to safety standards. Inspection of vehicles and machinery to ensure silencers are fitted.

Ensure that a complaints register is created, managed and maintained. Vehicles and earthmoving equipment should be equipped with the necessary silencers and regularly maintained in a good working condition.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

No noise attributed to prospecting will be generated from the site after closure anymore. During decommissioning and closure phase some earth moving equipment and trucks would be utilized for rehabilitation.

Environmental Component

Archaeological and Cultural Sites

Environmental Management/Mitigation Measures/Action Plans/Commitments

No graves on site

However, the potential occurrence of unmarked graves or subsurface finds not recorded during this survey can never be excluded, so it is advised that SAHRA and a qualified archaeologist are informed immediately if archaeological objects are uncovered.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA.

Closure Objective

No site of archaeological importance should be disturbed or damaged until the necessary permit from SAHRA has been issued.

Environmental Component

Sensitive Landscapes

Environmental Management/Mitigation Measures/Action Plans/Commitments

Nane

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA

Closure Objective

Environmental Component

Visual Aspects

Environmental Management/Mitigation Measures/Action Plans/Commitments

Visual impact would be addressed by means of;

re-vegetation of disturbed areas with grasses;

* removal of any temporary building, scrap, domestic waste, etc. that would otherwise contribute to a negative visual impact.

Concurrent rehabilitation should be done simultaneously as prospecting activities progress.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/E(A.

Closure Objective

No residual visual impacts will remain after closure. The terrain should blend in with the surrounding landscape.

Environmental Component

Socio-Economics

Environmental Management/Mitigation Measures/Action Plans/Commitments

There will be a very small increase in Socio ~ economic activity at local level, because of the size of this prospecting activity.

EMP Performance Assessment & Monitoring Reporting

To be included in EMP/EIA.

Closure Objective

The economic development must doliver a multiplier effect that will contribute to the local economy long after closure.

Environmental Component	Interested and Affected Parties				
Environmental Management/Mitigation Measure	s/Action Plans/Commitments				
Access control should always be a priority. Active prospecting site should be fenced off and also any deep water holes. If any problem should arise, meetings will be held with the landowners and affected parties to consult them on certain matters like permission to prospect and pollution. No prospecting should be conducted under or near Eskom power line (10 m distance should be kept) (Permission of Inspector of Mines should be obtained.)					
EMP Performance Assessment & Monitoring Re	porting				
To be included in EMP/EIA. Closure Objective	7864 480 (1975-1976) 487 (1975 498 (
Not to be an economic, social or environmental liab interested and affected parties will be considered.	ility to the local community or the state now or in the future. The company will ensure that the interest of all				

ix) Motivation where no alternative sites were considered.

Alternative is not applicable. There is not an alternative for the location as this is the specific area where the applicant believes minerals can be found. The only alternative will be whether what method of processing to be used, puddle into the pans (wet method) or puddle dam (dry tailings method). The footprint of the actual disturbance on site does have the alternative where the puddle can be deposited onto a puddle dam or back into the excavations whereby the latter will have a smaller footprint. The puddle dam method however can lead to quicker rehabilitation and re-use of the land for grazing as the excavations are backfilled with dry material and immediately rehabilitated.

The applied area is the specific area need for prospecting thus no alternative. The current land is being use as natural grazing. The option to explore the possibility for prospecting is already in itself an alternative land use. The applicant Buitehof Boerdery CC is not interested in any other alternative land use over this land aside for the exploration of the said minerals, or any other activity, or method use other than prospecting for the said minerals in the conversional way, which is the most cost effective.

x) Statement motivating the alternative development location within the overall site.

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

The applied area is to believe where the Alluvial Diamonds, Diamonds in Kimberlite, Manganese Ore, Stone Aggregate from Waste dumps and Sand (general) (minerals) will be found thus the specific area. The prospecting operation will not be a static operation, the mobile plant will move as prospecting progress, thus the whole application is to determine a potential site for when Phase 3 is reached.

h) 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 are 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 miligation measures.)

ASPECI 1. GEOLOGY	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	During operation w Diamonds, Diamon dumps and Sand (go	posits will be destroyed dur hich will be for the next ds in Kimberlite, Mangan eneral)) will be extracted fro foverburden material is disp ecting process.			
Extent	Site				Activity causing the impact
Duration	Permanent				An opencast prospecting method will be used to extract
Probability	Definite			bulk samples. Therefore the original geology will be	
Significance	High		totally destroyed.		
Phase responsible for the impact	Phase 1	Phase 2			
nopace		^	^		

ASPECT 2. TOPOGRAPHY	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	" Disturbance The prospectin 3m or less), the activities will be (approximately	ng site is situated on: leve of the surface drainage: ig of the alluvial deposits v at act as depressions in the e concentrated as indicate	will result in the creation of the environment that capture and on Appendix 4 on the a sace drainage will be disturb		
Extent	Site				Activity causing the impact
Duration	Very long to Pe	rmanent			Bulk sampling trough trenches, etc.
Probability	Definite				
Significance	High	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	MICCIN-II MICINITITI II I		
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure]
impact		X	X	Х]

3. SOIL	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact	The surface area is characterized by various soil depths. Any construction of infrastructure should be preceded by the removal of all available topsoil.				
Extent	Site				Activity causing the impact
Duration	Long				In the process of removing topsoil the soil layers are
Probability	High				mixed and the structure may be disturbed.
Significance	Moderate				
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact		X	X		

3. SOIL	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	structures such as t All prospecting activ alluvial deposits cou In the same time a d surface area (aliena	construction, operation a fine access roads, stockp rities will be concentrated ald be found. bertain surface area is the fed) would be restricted in of the prospecting right			
Extent	Site			AND THE PROPERTY OF THE PARTY O	Activity causing the impact
Duration	Long			Site preparation for additional prospecting sites and	
Probability	High		the construction, operation of listed infrastructure.		
Significance	Moderate		1		
Phase responsible for the	Phase 1	Phase 2			
impact		X	X	X	

ASPECT 3. SOIL	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	would lead to lesse bare disturbed sur	o the fact that certain surfact er infiltration of rainwater and faces. Erosion would always rehabilitation phase.	WANT		
Extent	Site		William Committee Committe		Activity causing the Impact
Duration	Very short	223 III. 21 III. 22 II. 23 II. 24 II. 24 III. 24 III. 25 III. 27 III.			When removing topsoil during site preparation, little
Probability	Very low				storm water control structures are in place. If a severe storm hits the area, it may lead to erosion on site.
Significance	Low	WANTED THE PROPERTY OF THE PRO		Topsoil stockpiles may be prone to erosion due to lack	
Phase responsible for the	Phase 1	Phase 2	of vegetation cover.		
impact		Х	X	X	Water control structures may fail or severe rainstorms may cause excessive run-off. Surface compaction due to activities taking place.

ASPECT				CUMULATIVE IMPACTS	
3. SOIL					
Nature of the impact	Potential of soil conf	tamination.	None.		
Extent	Site				Activity causing the impact
Duration	l.ong				Vehicle/equipment breakages and oil/lubricant /diesel
Probability	Moderate		spills may contaminate soil.		
Significance	Moderate				
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	

impact		X	X	X	
ASPECT	IMPACTS				CUMULATIVE IMPACTS
3. SOIL					
Nature of the impact	Loss of soil structure	7			None
Extent	Site		'		Activity causing the impact
Duration	Long				In the process of removing topsoil the soil layers are
Probability	High		and a state of the		mixed and the structure may be disturbed.
Significance	Moderate				
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact		X	X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
3,\$OIL					
Nature of the impact	Loss of soil fertility				None
Extent	Site				Activity causing the impact
Duration	Short		COLUMN TO THE PARTY OF THE PART		The mixing of soil during site preparation, compaction
Probability	Definite				and potential pollution (spillages form oil etc.) all may
Significance	Łow				cause this situation.
Phase responsible for the	Phase 1 Phase 2 Phase 3 Ciosure				
impact		Х	X		

ASPECT	IMPACTS		CUMULATIVE IMPACTS		
4.LAND CAPABILITY					
Nature of the impact	active prospecting equipment) etc. will All trenches would are back-filled. If the old areas be	I land capability to suppo activities occur (trenches, to i thus be temporary alienate be rehabilitated as part of the re-worked this will make many it still be used by the landow			
Extent	Site				Activity causing the impact
Duration	Long				Site preparation for additional prospecting sites and
Probability	Definite			the construction, operation of listed intrastructure, the	
Significance	Moderate	ADDAMAN TANKER TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TOTAL TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TOTAL TOTAL T	land capability of the active prospecting area will be		
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	totally destroyed.
impact		X	X	X	

ASPECT 5. LAND USE	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	on a certain portion this will make more time) would be affe application area of t	be rehabilitated as par			
Extent	Site		NATIONAL TRANSPORT CONTRACTOR AND AND ADDRESS OF THE PARTY OF THE PART		Activity causing the impact
Duration	Long to permanent		MIMI		Site preparation for prospecting and the construction,
Probability	Definite			operation of listed infrastructure	
Significance	Moderate				
Phase responsible for the	Phase 1	Phase 2			
impact		X	X		

ASPECT 6.VEGETATION	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact	Vegetation cleara Due to a disturbed	nce, disturbance and tramp ecosystem, bare ground an			
Extent	Site				Activity causing the impact
Duration	Long				The site preparation for new sites, construction of
Probability	Definite				listed infrastructure will cause destruction of habitats
Significance	High	•			for vegetation. Due to a disturbed ecosystem, bare
Phase responsible for the	Phase 1	Phase 2	ground and invasion of exotics could further spread.		
impact		X	Х		The vegetation needs to be cleared to remove the topsoil.

ASPECT	IMPACTS				CUMULATIVE IMPACTS
6.VEGETATION					
Nature of the impact	Habitat change, loss	s of species, spread of aliei	n and invasive species.		
Extent	Site				Activity causing the impact
Duration	Permanent				The change in the current habitat will be mitigated
Probability	High				during final rehabilitation.
Significance	Moderate				
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact		X	X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
6.VEGETATION					
Nature of the impact	Dust coverage of pla	ants.			None
Extent	Site				Activity causing the impact
Duration	Long				Heavy trucks and other vehicles on dirt roads,
Probability	High	• •			stockpiling, dumping of tailings are mainly responsible
Significance	Low		for this impact.		
Phase responsible for the	Phase 1	Phase 2			
impact		X	X	ALLONDO DE LA COMPANSION DE LA COMPANSIO	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
7. WILDLIFE					
Nature of the impact	Wildlife or wildlife h	abitat destruction /change	: / disturbance.		None
Extent	Site				Activity causing the impact
Duration	Permanent				The flora which normally serves as habitat for animals
Probability	Very High				would be destroyed during site preparation. The
Significance	Moderate				increase in activity will temporarily scare other
Phase responsible for the	Phase 1 Phase 2 Phase 3 Ciosure				animals. The area will serve as a new habitat after
impact :		X	1 X		rehabilitation.

ASPECT	IMPACTS				CUMULATIVE IMPACTS
7. WILDLIFE					
Nature of the impact	Injury and death to w	rildlife.			None
Extent	Site				Activity causing the impact
Duration	Short				The movement of vehicles may kill certain insects.
Probability	Very low		' '		rodents and possible birds. Most of the remaining
Significance	Low		animal life will however move away due to noise.		
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact		X	X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
7. WILDLIFE					
Nature of the impact	Restoration of habit	at.			None
Extent	Site	2411117 12411411411111111111111111111111	•		Activity causing the impact
Duration	Short				As rehabilitation progresses the habitat of certain
Probability	Łow				species will be restored/created (Closure objective)
Significance	Low			Animals will probably only move back when human	
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				movement is limited.
impact		X	X	X	

ASPECT 8. SURFACE WATER	IMPACTS	CUMULATIVE IMPACTS
Nature of the impact	Change in surface water quality. Spillages from vehicles and also surface water run-off that is not adequately diverted away from the active prospecting excavations could end-up in the excavations creating problems regarding water quality and hindering the prospecting process. Surface run-off from active prospecting sites (overburden dumps & tailings dam/dump) if not adequately contained on site could end-up in the adjacent undisturbed natural veld. If the natural surface run-off is not adequately diverted in the case of the drywater course area, prospecting sections it could become silted-up.	
Extent	Local	Activity causing the impact
Duration	Short	"Dirty / Clean" water systems at facilities like the
Probability	Moderate	overburden dumps, roads, trenches, etc. may impact
Significance	High	on the quality of the surface water. The water should

Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	be contained in the surface runoff control measures
impact		X	X		provided therefore.
9. GROUND WATER	12.00	•			A CALL AND
Nature of the impact	users, this is a new Groundwater will b volume of water ne	action is likely to have a mi use, and groundwater leve e abstracted for potable w reded is small (10 000 Lit/h t on the surrounding aquife			
Extent	Site				Activity causing the impact
Duration	Long				Opencast prospecting operation.
Probability	Low				
Significance	High				
Phase responsible for the	Phase 1	Phase 2			
impact		X	х х	Х	

ASPECT	IMPACTS		CUMULATIVE IMPACTS		
10. AIR QUALITY			THE RESERVE AND A STREET ASSESSMENT ASSESSME		
Nature of the impact	dump truck) and tra gravel/dirt/farm roa	ated during the prospecting ensportation to the plant (co ds. he gravel is a wet process a			
Extent	Site				Activity causing the impact
Duration	Long				Initial construction work with regard to infrastructure
Probability	Moderate			(roads) that involves earth moving equipment. During the phase 2, dust could be generated as indicated	
Significance	Moderate		during prospecting.		
Phase responsible for the	Phase 1	Phase 2			
impact	TACIMARIA CONTRACTOR C	X	X	X	

ASPECT 11. NOISE POLLUTION	IMPACTS		CUMULATIVE IMPACTS		
Nature of the impact	dump truck) and tra The mine itself is	ated during the prospectin asportation to the plant (or located in rural landscap worker environment that it Safety Act.			
Extent	Local				Activity causing the impact
Duration	Long				Earth moving equipment and vehicles (trucks).
Probability	Definițe	•			
Significance	Moderate				
Phase responsible for the	Phase 1	Phase 2	Phase 3		
impact		X	X	X	

ASPECT 12. ARCHAEOLOGICAL AND CULTURAL SITES	IMPACTS		CUMULATIVE IMPACTS	
Nature of the impact		eologically vulnerable. It is ant archaeological impact		
Extent	Site			Activity causing the impact
Duration	Permanent			
Probability	Definite			
Skgnificance	High			
Phase responsible for the	Phase 1	Phase 2		
impact		X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
13. SENSITIVE					
LANDSCAPE			The second secon		Mar
Nature of the impact	No sensitive landsca	apes identified.			
Extent	Not applicable				Activity causing the impact
Duration	Not applicable				
Probability	Not applicable				
Significance	Not applicable				
Phase responsible for the	Phase 1 Phase 2 Phase 3 Closure				
impact					

ASPECT	IMPACTS				CUMULATIVE IMPACTS
14.VISUAL ASPECTS					
Nature of the impact			neighbours living there.	The operation is not visible to	
1	from any tourist	road.			
Extent	Site				Activity causing the impact
Duration	Lang				Diamond prospecting operation.
Probability	Definite				
Significance	Low				
Phase responsible for the	Phase 1	Phase 2	Phase 3		
impact		X	X	X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
15. SOCIO ECONOMICS					
Nature of the Impact	The project in itself some time. Job cre and their dependant	economic activity at local le would ensure that approximation plays a major role in in the Lichtenburg district g operations have ceased it	sately 8 workers would be a noreasing the economic we ;	libeing of employees	The increase in socio-economic activity will add to the current growth and development in Lichtenburg already created by industry and prospecting.
Extent	Local			Activity causing the impact	
Duration	Long	**************************************		Additional employment opportunities created.	
Probability	Definite			1	
Significance	High				
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	
impact	Print The Carlo Production of Authority Control Manual Manual Control	X	X	X	

ASPECT 15. SOCIO ECONOMICS	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact		cultural activities at any give	mpact and the small area c en time for 4 years.	f 0.5 ha that will not	The economic benefits in terms of investment and the delivery of services in the North West province will get an additional benefit from the project.
Extent	Regional			Activity causing the impact	
Duration	Very Long				
Probability	High	•			
Significance	Moderate				
Phase responsible for the	Phase 1	Phase 2	Phase 3	Closure	
impact		X	X	X	

ASPECT 16. INTERESTED & AFFECTEDPARTIES	IMPACTS				CUMULATIVE IMPACTS
Nature of the impact	term benefits far out Loss of cattle due to	titization of the prospecti -weight the current bene falling of animals in min is expected that could	ng focus areas for agricultu fits from the current use. e workings if not fenced. be appropriately mitigate		
Extent	Local				Activity causing the impact
Duration	Long				
Probability	High				
Significance	Hìgh				
Phase responsible for the	Phase 1	Phasa 2	Phase 3	Closure	
impact		X	X	X	

i) Assessment of each identified potentially significant impact and risk This sectors of the report must consider all the brown lypical impacts of each of the activities (including those that could not should have been

			ene i normani emperi i i mineri in	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SIGNFICANCE If mitigated	+ 140	Moderate +	+ wo.1	- rom +		
MITIGATION TYPE Through of a transmission state when cared and control metablish design pressure lotenty receives, ancience, superaces, abretion designific	The impact will be mitigated by backfilling and sloging the sold to greevent erosion	The pit will be backfilled. The sides will be sloped and top soiled and vegetated. A surface water cut-off trench should be put in place around the active prospecting site in order to prevent surface nan-off water on the prospecting site. Rehabilitation of the new stoped landscape in such a way that it would blend in with the such and surface and surface.	Any area on the prospecting area where distributence will take place the top soil nust be removed and stockpiles for rehabilitation burposes in a demanded area.	To take preventive steps against erosion. Implement and maintain cut-off trenches and or beinns around the prospecting area to prevent water embring that can cause excision. Concurrent rebabilitation and re-vegetation of mined areas must tappen as soon as the particular area is mined cut. Rehabilitated areas must be sinspected and managed in such a way that any signs of erosion can be mitigated immediately.	As this is only a very small area of 0.5 hectare, the impact is red so big. As the excavation will be backfilled and vegelated the rehabilitated area must be treated as sensitive when grazed as overgrazing can brigger exoson and infiltration of declares weeds.	The prospecting method wit serve as mingation measure because it wit strit dust to the active prospecting area, where the excavator and stacks operating. Daily spraying of the roads with water.
SIGNIFICANCE	-ligh -	Woderate -	- #07	- ** **	Low-	£ OW -
PHASE International Property	Operationas	Operational and closure	Construction and Operational	Construction	Operational and chosure	Operational
ASPECTS AFFECTED	V/************************************	ropography	**		Land capability & Land	Air qualky
POTENTIAL MPACT Reteirs In selection to select the selection of the	f.1 Removal of the alltwist gravel Geology & soil up to 3m. Disturbance of 0.5 nectare at any given time.	1.2 Change in landtorm. The entre prospecting area will be bawered by 3m and normal surface drainage will be disturbed at this specific posit. The pit will be backfilled.	1.3 Stripping of all available hopsoil and stockpile and stockpile and sector as a full bectare at any given time.	i. Due to the fact face areas would of any vegetation packed this would fattation of rain in run-off that could on bare disturbed slopes	1.5 Land capabally and land use. Loss of land to support grazing.	1.6 Generation of dust by excavating and vehicle movement
NAME OF ACTIVITY TO STORTH A STATE A		V V -	nomen and Taranta A. Taranta M.	and the second		

Elar/EMPr - Buitehof Boerdery CC - Klipbankfontein alias Manana 26 IP - NW30/5/1/1/2/12421 PR

j) Summary of specialist reports.
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RECOMMENDATIONS THATPAGE BEEN MOLLUCED IN THE EIA REPORT (Mefran X where applicable)	LISTOF	RECOMMENDATIONS OF SPECIALIST REPORTS	SPECIALIST	REFERENCE TO APPLICABLE
REPORT X where applicable)	STUDIES UNDERTAKEN		RECOMMENDATIONS THATIPME SECON NOT INFORMATIVE FILE	SECTION OF REPORT WHERE
X where applicable]	****		REPORT	HAVE BEEN INCLIDED.
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k) Environmental impact statement

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

The small scale alluvial gravel prospecting operation is definitely going to have an impact on the environment. The main impact relates to topography, geology, soil, vegetation, and land use and land capability. The Alluvial Diamonds, Diamonds in Kimberlite, Manganese Ore, Stone Aggregate from Waste dumps and Sand (general) resource will be prospected over a period of 4 years. The existing land-use is agriculture, grazing land and cultivation of cash crops. This is a small operation and for the next 4 years only a small portion of the farm will be temporarily alienated.

The conservation of topsoil is of utmost importance and therefore in order to ensure a sustainable land use again on the 0.5 ha, the top at least 30 cm topsoil need to be removed prior to prospecting of the underlying alluvial gravel (up to 3 m depth). This will be used again as growth medium during the rehabilitation phase of the excavations. Topsoil will be stored in berm walls on the border of the excavation in order to divert any surface run-off during a rainfall event. Other environmental impacts relates to the day to day operation that could easily be managed, such as dust and noise.

(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.

Attach as Appendix 1 (a) — Infrastructure Map.

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

The site is selected in such a way that farming will still be possible on the rest of the farm. The loss of land use and land capability will be temporary as the site will be rehabilitated in such a way that it allows the establishment of a grass cover again. The rest of the farm will still be continued to be used for grazing for cattle. Although this is small Alluvial Diamonds, Diamonds in Kimberlite, Manganese Ore, Stone Aggregate from Waste dump and Sand (general) prospecting operation it would also add to the increased economic activity within the farming and exiting mining community around Lichtenburg. Jobs for 8 permanent laborers will be created. Negative impacts on the area are expected to be temporary and can be mitigated to a large extent if the recommendations of the EMP are adhered to e.g. rehabilitation. No concerns have been raised as yet by any I & AP. The specific occurrence of the Alluvial Alluvial Diamonds, Diamonds in Kimberlite, Manganese Ore, Stone Aggregate from Waste dump and Sand (general), deposit dictates the selection of the specific prospecting site.

Proposed impact management objectives and the impact management outcomes for inclusion in the EMPr;

Based on the assessment and where applicable the recommendations from appointing 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

in term of NEMA - EiA Regulations No. 326 of 7 April 2017 - Reg. 21, Appendix 3 - 1. (1)(d)

The main closure objective of **Buitehof Boerdery CC** is to rehabilitate the entire prospecting site in such a way to ensure that the new man-made topographical landscape would blend in with the surrounding landscape, not pose a safety hazard to humans and animals, while at the same time allow for alternative land uses. Establish a self-sustaining and stable vegetation cover in order to mitigate the visual impact, to control erosion and to create some habitat for animals. The rehabilitated environment also needs to be aesthetically acceptable according to the principle of BPEO. The applicant will ensure that the Operation/Sites are:

Neither a danger to public health and safety nor to animal health and safety;

- Not a source of any pollution;
- Stable (ecological and geophysical);
- Rehabilitated to the state that is suitable for the predetermined and agreed land use (grazing);
- Compatible with the surrounding biophysical environment;
- A sustainable environment;
- Aesthetically acceptable;
- Not an economic, social or environmental liability to the local community or the state now or in the future.

m) Final proposed alternatives.

(Provide an explanation for the final layout of the intrastructure and activities on the overall site as shown on the final site map together with the reasons why they are the final proposed alternatives which respond to the impact management measures, avoidance, and mitigation measures identified through the description.

None

n) Aspects for inclusion as conditions of Authorisation.

Any aspects which have not formed part of the EMPr that must be made conditions of the Environmental Authorisation None

o) Description of any assumptions, uncertainties and gaps in knowledge.

(Which relate to the assessment and mitigation measures proposed)

None

p)Reasoned opinion as to whether the proposed activity should or should not be authorized

None

h) Reasons why the activity should be authorized or not.

This activity will have only low and very low impacts and no significant impacts were identified. No concerns were raised by the interested parties. These prospecting activities will have no significant impacts on them or their surrounding environment.

ii) Conditions that must be included in the authorization

None

(1) Specific conditions to be included into the compilation and approval of EMPr

None

(2) Rehabilitation requirements

Normal rehabilitation

g) Period for which the Environmental Authorization is required.

4 years.

r) Undertaking

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

The Environmental Management Programme will, should it comply with the provisions of section 39 (4) (a) of the Act and the right be granted, be approved and become an obligation in terms of the right issued. As part of the proposed Environmental Management Programme, the applicant is required to provide an undertaking that it will be executed as approved and that the provisions of the Act and regulations thereto will be complied with.

UNDERTAKING BY APPLICANT TO COMPLY WITH THE PROVISIONS OF THE ACT AND THE REGULATIONS THERETO

UNDERTAKING
I, <u>D. E. Erasmus</u> , the undersigned and duly authorised thereto by <u>Buitehof Boerdery CC</u> have studied and understand the contents of the Environmental Management Programme and duly undertake to adhere to the conditions as set out therein, unless specifically or otherwise agreed to.
Signed at <u>Klerksdorp</u> on this day <u>19th of February</u> 2019.
Signature of Mine Manager

s) Financial Provision

State the amount that is required to both manage and rehabilitate the environment in respect of rehabilitation. R91 762.00 for rehabilitation. See quantum attached as Appendix 3.

- Explain how the aforesaid amount was derived.
 The amount was determined through the quantum tables provided by DMR.
- (Confirm that this amount can be provided for from operating expenditure.

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

 Yes it is hereby confirmed that the amount will be provided from operating expenditure.
- t) Specific Information required by the competent Authority
 - i) 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 altuvial diamond mining 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 Appendix

The applicant will remunerate the occupier for the land used as agreed upon. No other person will be directly affected by this activity.

(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 samping or attivial diamond mining 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)(9(vi) and (vii) of that Act, attach the investigation report as **Appendix 2.19.2** and confirm that the applicable mitigation is reflected in 2.5.3; 2.11,6 and 2.12/herein).

There is no graveyard within the application area. According to Section 36(3) of the National Heritage Resources Act 25 of 1999 no person may, without a permit issued by SAHRA or a provincial heritage resources authority—

- (a) destroy, damage, after, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;
- (b) destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or
- (c) bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation equipment, or any equipment which assists in the detection or recovery of metals.
- It is recommended that the graveyard is included in the overall management plan of the mine development. Preservation of the site will require that the area is properly demarcated with at least a 20m buffer zone placed around the graveyard in order to avoid potential damage during prospecting activities. It will be necessary to ensure that the graveyard is accessible to the relatives of the deceased.

u) 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 fine reasonable or leasted attenuatives, as contemplated in sub-regulation 22(2)(h), exist, The EAP must attach such motivation as Appendix 1).

There are no alternatives, as the application area applied for is the area where the applicant believes is potential for alluvial gravel deposits.

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 stready included in PART A, section 1(a) herein as required).

The EAP Mr. Daan Erasmus has a National Diploma in Agriculture Resource Utilization and a Baccalaureus Technologiae degree in Agricultural Extension.

Yes see Part 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 attractly included in PARY A, section (i)(h) herein as required).
Yes see Part A.

c) Composite Map

(Provide a map (Attached as an Appendix) 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)

See Appendix 1 (a)

d) Description of Impact management objectives including management statements

The main closure objective of **Buitehof Boerdery CC** is to rehabilitate the entire prospecting site in such a way to ensure that the new man-made topographical landscape would blend in with the surrounding landscape, not pose a safety hazard to humans and animals, while at the same time allow for alternative land uses. Establish a self-sustaining and stable vegetation cover in order to mitigate the visual impact, to control erosion and to create some habitat for animals. The rehabilitated environment also needs to be aesthetically acceptable according to the principle of BPEO. Another main objective is to manage the surface water in such way that an acceptable water standard is achieved when a closure certificate is issued.

As this area was disturbed before there is not top soil available on all the areas but on the non-disturbed area all available top soil will be stripped and stockpiled.

Buitehof Boerdery CC will ensure that the Operation/Sites are:

- \checkmark Neither a danger to public health and safety nor to animal health and safety;
- ✓ Not a source of any pollution;
- ✓ Stable (ecological and geophysical);
- Rehabilitated to the state that is suitable for the predetermined and agreed land use;
- Compatible with the surrounding biophysical environment;
- ✓ A sustainable environment;
- Aesthetically acceptable;
- Not an economic, social or environmental liability to the local community or the state now or in the future.

Buitehof Boerdery CC will furthermore:

- Ensure that the physical and chemical stability of the rehabilitated site will be such that risk to the environment is not increased by naturally occurring forces to the extent that such increased risk cannot be contended with by the installed measures:
- Subscribe to the optimal exploitation and utilization of South Africa's mineral resources (Alluvial Diamonds, Diamonds in Kimberlite, Manganese Ore, Stone Aggregate from Waste dumps and Sand (general);
- Ensure that the prospecting site is closed efficiently and cost effectively.
- Ensure that the operation is not abandoned but closed in accordance with the relevant requirements;
- Ensure that the interest of all interested and affected parties will be considered;
- Ensure that the all-relevant legislation regarding mine closure will be adhered to, and all relevant application procedures followed.
- ii) Volumes and rate of water use required for the operation.

100 000 liters a day will be used for washing pans.

iii) Has a water use license has been applied for?Application will be submitted.

iv)Impacts to be mitigated in their respective phases

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

IME PERIOD FOR INPUEMENTATION Oscible for the pariol when his research in the engage of Price there is to program exist to include the Real magnetic Price the company of the registration of the registratio	As part of consument rehabilitation.	Concurrent with prospecting	Concurrent with the prospecting		
CONPULANCE WITH STANDARDS 14 destror of the east of the recurrent form their will purp and not premised environment for their will or premise technologies and their purposes Appropriate or premise technologies and their purposes Appropriate	The pits will be sloped for stability and providing a base for the teplacement of topsoil.	Ingnediate deaning of spillages	Insnediate ceaning of spillages	Remove temporary buildings, scrap, domestic waste, etc. as soon as passible.	
NETIGATION MEASURES (Geards to a cast of the incompandations is breish all extrest the sauso of policien or expression restrictions and policiens of	Keep to optimal well planeed prospecting plan/Concurrent rehabilitation by sloping the sides of the excavation to be stable/Sustainable and covered with topical and vegetate/Sustainable and covered with place/Restrict clearing of surface area to necessary areas/ Re-establishment of vegetation on rehabilitated area	Keep this æea as small as posstble within the demarcated area! Prevent spillages of fuels by machines	Keep this area as small as possible! Prevent syallages of fuets by equipment/Surface run-off measures be put in place!	Reep this area as small as possible within the ofenanciated area! Prevent spillages of fatels by machines/Surface nun-off measures be put in place. Remove temporary buildings, sorae, domestic waste, etc.	Stey on mine roads? Prevent spillages of feets by machines/Surface run-off measures be put in place/egular service of vehicles and machinery/daily spizying of load surfaces to refunce dust/Dirigh trays must be available under parked mine vehic/ses/ehicles must be serviced over concrete sab of PVC fined area/All used oils and subricants is stored over concrete slab and regularly removed.
SIZE AND SCALE of disturbance losters, brosps admitted a	0.3 hectares a≤ any stage	0.1 hectares at any stage	V.1 heclares at any stage		
PHASE structure in reformation action with structure State State State state State State State state State State State state State State State state State State State state State State State state State State State state State State State state State State State State state State State State State state State State State State state State State State State state State State State State State state State State State State State State state State State State State State State State State State State State State State State State State State State Stat	Operational	Operational	Operational	Operational	Operational
ACTIVITES If § Farming all set, sie care, ration facility, accordation, epitrello facility, accordation, epitrello facility, set of sie sie care, ration facility, especially states and sie	1. Excavations: destruction of geology; change in topography; fors of soil structure; compactionloss of land capability; temporary loss of land use; disturbance of vegetation oxver; disturbance of animal life; visual impact	Cravei Stockpile area: compaction of soil; surface drainage will be disturbed; increase of silf load' visual impact	3. Washing of alluvial gravel: < soil contamination; < potential of negative impact on surface water; < etst pollution; < result pollution; < result in groundwater quality; < result in groundwater quality; < visual impact	4. Surface infrastructure: compaction of soil; surface drainage will be disturbed; reduction in groundwater quality; visual impact 	5. Prospecting Vehicle: soil contemnation/loss of soil structure: loss of soil fertifity; potential of negative impact on surface water, reduction in groundwater quaity; visual impact

e) Impact Management Outcomes
A descriptor of repat management outcomes, then thy of the pact management require to the aspects contempated in paragraph ().

ACTIVITY	POTENTIAL IMPACT	ASPECTS AFFECTED	PHASE	MITIGATION TYPE	STANDARD TO BE ACHIEVED
(where issue as trad)	leg izw. nom drange some debriene, ie net yndare sale omzekate, geselway omstrodov, et polyte		Is shirt reports as topology	(mode), resetty, carbo, without though the pro-	Impacantelor meetines that issue, relativation standards and use trice has
[E. Erzenban, ivining watyke, stood drapping daw, Esskin, laddy and laraping lades may bens ani benshera maramaskan, dawa akthon, sane, nokalinga pomenan pant saon new cating benne, saki popisis, poner ben, comenga, it., set., set.)			leg Cartusian carriagaria, spezioni, Geznavacias decre, prochaus	retrientor, despresse y Users certes rederes, retrains, despresses despresses, despresses despresses, despresses des despresses desp	#
f. Excavations for alluvial grave	1.1 Remayal of the gravel up to 3 m	Geology & soil	Орегайона	The impact wit be mitigated by backfilling and stoping the sides of the excavation and stabilizing the soil to arevent soil excavation.	Stable stopes that can sustain erosion without excessive erosion.
	1.2 Change in landform. The entire prospecting area with be lowered by 3m and norms surface drainage will be	Topography	Operational and closing	The side of pit will be stoped and the sost stabilized to prevent erosion. A surface waster cut-off trench should be put	Geribe stable stopes.
	disturbed at this specific point. The pit મહે be backfilled		BAPPIN BARNINGA ALIKA	in place around the active prospecting site I order to prevent surface water on the prospecting site. Retabilitation of the new sloped landscape in such a way that it would blend in with the surrounding landscape.	alan an Aran Aran Aran Aran Aran Aran Aran
	1.3 Stripping of all avaitable topsoot and stockpiles	Sail	Construction and operational	The top soil must be removed before any distuitance take place. The top soil must be removed and stockpite in a demanded area for rehabilitation purposes.	Encugit lopsoil for rehabilitation to ensure sustainable vegetation.
	1.4 Soil erosion due to the fact that certain surface areas would become devoid of any vegetation cover and compacted. This would lead to lesser infiltration of rain water and move run-off that could cause erosion or bare disturbed areas and side signes.	33	Construction and operational	To take preventive steps against erosion. Implement and martian cut-off tresches and or berms around the prespecting area to prevent water entering that can cause excessive erosion.	No excessive erosion firat cannot be stabilized.
	1.5. Loss of Land capability & land use.	Land capability & Fand use	Operazional and closure	As this is only a very small area of 0.5 hectare, the impact is frux. As the sides will be slugged and vegetated, the rehabilitated area must be breated as sensitive when grazed as owegrazing can higger erosion and infiltration of declared weeks.	Sustainable rehabilitated area.
	1.6 Ceneration of dust by excavating and vehicle movement	Air quality	Operational	The generation of dust wif only be localized at the prospecting site. Daily spraying of roads with water	No excessive dust that can be hamfuld to the environment and humans.

f) Impact Management Actions

	COMPLANCE WITH STANDARDS A Assignated of lowers of the commendations in 255 made are 212 and 252.2 have as of comply we any successed encourage and complete and many because it has been been feet finding complete. Authorized:						
inskil and (ii) will be achieved.	THE PERIOD FOR IMPLEMENTATION leads to the previous principles on the property of property to the property of property of property of property of property of the property of						
(A description of inpact management actions, identifying the marker or which the impact management objectives and outcomes contemptated in paragetors (c) and (d) will be achieved,	#IFIGATION TYPE Index, reveel, cache of use, cache of use, cache of use, cache of use, cache of use of the use of the use of use	The bulk of the material removed wife be washed and the puddle back to the excavation. The impact wife be mitigated by backfixing the excavation and stabilizing the soil to prevent soil erosion.	The pit will be backfilled and the soil stabilized to prevent ercsion. A surface water cut-off teench should be put in place around the active prospecting site in order to prevent surface water on the prospecting site. Rehabilitation of the new rehabilitated landscape at such a way that it would bend in with the surrounding landscape.	The top soil must be removed before any disturbance take place. The top soil must be removed and stockpile in a demarcated area for reliabilitation purposes	To take preventive steps against ension. Implement and maintain cut-off trenches and or berms around the prospecifing area to prevent water extering that can cause excessive erosion.	As this is only a very small area of 0.5 ha, the impact is law. As the sides will be sloped and vegetated, the rehabitizated area must be treated as sensitive when grazed as overgrazing can higger erosion and infilitation of declared weeds.	The generation of dust will only be facelized at the prospecting site. Daily spraying of roads with water
is, identifying the marker as which the singact marke	POTENTIAL IMPACT Og dat ves, gestign with draftwest front- actions was centerfact, gourness construction ac publics ex. et. j	f.1 Removal of the gravel up to 3 m	1.2 Change in landform. The entite prospecting area will be lowered by 3 an and normal surface dranage will be desturbed at this specific point. The pit will be backfilled	1.3 Stripping of ati avaitable topsoil and stockpiled	1.4 Soit erosion due to the fact that certain surface areas would become devoid of any vegetation cover and compacted. This would head to lesser infixtration of rain water and more naroff that could cause ensions on base disturbed areas and side slopes.	1.5 Loss of Land capability & land use	1.6 Generation of dust by excavating and vehicle movement
(A description of impact management action	ACTIVITY INSTRIBUTE OF SERVICE [5] GORNOLOF, LEAVE GORNOL SECRET AND CONT. LANGE, LEAVE GORNOLOF, LEAVE GORNOLOF, LANGE AND CONTROLOGY, LONGOLOF LANGE, ADMINISTRATION OF SERVICE AND CONTROLOGY LONGOLOF LANGE, LANGE CONTROLOGY,	Excavations for alluvial gravel					SPPAGAN AND FRANKIS

Financial Provision

(1)

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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.

The main closure objective of **Buitehof Boerdery CC**, to rehabilitate the entire prospecting site in such a way to ensure that the new man-made topographical landscape would blend in with the surrounding landscape, not pose a safety hazard to humans and animals, while at the same time allow for alternative land uses. Establish a self-sustaining and stable vegetation cover in order to mitigate the visual impact, to control erosion and to create some habitat for animals. The rehabilitated environment also needs to be aesthetically acceptable according to the principle of BPEO. Another main objective is to manage the surface water in such way that an acceptable water standard is achieved when a closure certificate is issued.

Buitehof Boerdery CC will ensure that the Operation/Sites are:

- Neither a danger to public health and safety nor to animal health and safety;
- Not a source of any pollution;
- Stable (ecological and geophysical);
- Rehabilitated to the state that is suitable for the predetermined and agreed land use;
- Compatible with the surrounding biophysical environment;
- A sustainable environment;
- Aesthetically acceptable;
- Not an economic, social or environmental liability to the local community or the state now or in the future.

Buitehof Boerdery CC will furthermore:

- Ensure that the physical and chemical stability of the rehabilitated site will be such that risk to the
 environment is not increased by naturally occurring forces to the extent that such increased risk
 cannot be contended with by the installed measures;
- Subscribe to the optimal exploitation and utilization of South Africa's mineral resources (Alluvial Diamonds, Diamonds in Kimberlite, Manganese Ore, Stone Aggregate from Waste dumps and Sand (general);
- Ensure that the prospecting site is closed efficiently and cost effectively.
- Ensure that the operation is not abandoned but closed in accordance with the relevant requirements;
- Ensure that the interest of all interested and affected parties will be considered;
- Ensure that the all-relevant legislation regarding mine closure will be adhered to, and all relevant application procedures followed.

(b) Confirm specifically that the environmental objectives in relation to closure have been consulted with landowner and interested and affected parties.

Yes, the disturbance that will take place and the rehabilitation thereof were discussed on the site visit with the landowner.

(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.

a. Rehabilitation:

The clearing of soil surface areas would be restricted to what is really necessary for the construction of infrastructure/crushing plant. During rehabilitation of these sites, or where vegetation is lacking or compacted, the areas would be ripped or ploughed and leveled in order to re-establish a growth medium and if necessary appropriately fertilized to ensure the re-growth of vegetation and the soil ameliorated based on a fertilizer recommendation (soil sample analyses).

Rehabilitation of access roads

Whenever a prospecting right is suspended, cancelled or abandoned or if it lapses and the holder does not wish to renew the permit or right, any access road or portions thereof, constructed by the holder and which will no longer be required by the landowner/tenant, shall be removed and/or rehabilitated to the satisfaction of the Regional Manager.

Any gate or fence erected by the holder which is not required by the landowner/tenant, shall be removed and the situation restored to the pre-prospecting situation.

Roads shall be ripped or ploughed, and if necessary, appropriately fertilized (based on a soil analysis) to ensure the re-growth of vegetation. Imported road construction materials which may hamper regrowth of vegetation must be removed and disposed of in an approved manner prior to rehabilitation. If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analyzed and any deletious effects on the soil arising

Regional Manager may require that the soil be analyzed and any deleterious effects on the soil arising from the prospecting operation be corrected and the area be seeded with a seed mix to the Regional Manager's specification.

Rehabilitation of the surface prospecting site

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

- (1) When a prospecting right, mining right, retention permit or mining permit lapses, is cancelled or is abandoned or when any prospecting or mining operation comes to an end, the holder of any such right or permit may not demolish or remove any building, structure, object -
 - (A & B) which may not be demolished in terms of any other law;
 - (C) which has been identified in writing by the Minister for purposes of this section; or
 - (c) Which is to be retained in terms of an agreement between the holder and the owner or occupier of the land, which agreement has been approved by the Minister in writing.
- (2) The provision of subsection (1) does not apply to bona fide prospecting equipment which may be removed

The excavations surface area shall be ripped or ploughed to a depth of at least 300mm and the topsoil previously stored adjacent the site, shall be spread evenly to its original depth over the whole area.

After all the foreign matter has been removed from the prospecting sites, the area levelled and the previously stored topsoil replaced.

The area shall then be fertilized if necessary (based on a soil analysis). The site shall be seeded with a vegetation seed mix (section C) adapted to reflect the local indigenous flora. Where the site has been rendered devoid of vegetation/grass or where soils have been compacted owing to traffic, the surface shall be scarified or ripped.

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

Rehabilitation of the new topographical landscape in such a way that it would blend in with the surrounding landscape and allow normal (controlled) surface drainage to continue.

Implement water control systems in order to prevent erosion. Seed the area (see C. (below) for recommended seed mixture).

Visual impact would be addressed by means of;

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

Fertilizing of Areas to be Rehabilitated

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

Seeding of Grass Seed Mixture and planting of Woody Species

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

- Cenchrusciliaris
- ✓ Cynodondactylon
- ✓ Digitariaeriantha
- ✓ Heteropogoncontortus
- ✓ Panicum maximum

b. Demolition of infrastructure/buildings

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

c. Invasive and alien control programme

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

(d) Explain why it can be confirmed that the rehabilitation plan is compatible with the closure objectives.

The excavations will be backfilled with puddle and top soil will be placed back. This site can be rehabilitated.

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

R 91 762 See Appendix 3 – Quantum Table.

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

The financing for this project will be done from the account **Buitehof Boerdery CC**, the applicant himself out of own funds. The guarantee will be provided in the form of Bank Guarantee after confirmation of the amount.

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

including
gliNorboking of inteact Narnaperneri Actions
li Norboking and inputing frequency
li Norspousible persons
ii Tere period for implementating and management actions and Mechanisms for monitoring compliance

SOURCE ACTIVITY	IMPACTS REQUIRING MONITORING PROGRAMMES	FUNCTIONAL REQUIREMENTS FOR MONITORING	ROLES AND RESPONSIBILITIES (FOR THE EXECUTION OF THE MOUNTORNO PROGRAMMES)	MONITORING AND REPORTING FREQUENCY and TIME PERIODS FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS
Prospecting site/Soil	Possible spillages of petrochemicals. Stripping of topscil	Checking for spillages on daily beacs. Checking correct shipping and stock paing of topsoil	Manager and Applicans	Daily checking and reporting with Performance Assessment
Prospecting site/Topography	Concurrent backfäing of excavations.	Checking stability of stope and eroson preventive measures	Manager and applicant	Quarterfy
Prespecting site/भेत्रं quality	Dust politaism from prespecting activities.	Regular welting of roads and stockgile area where searing take place.	Manager and applicant	Daily
Prospecting site	Chemical शिहेंet	Make sure that ≩ is used and tygienic.	Marager and Applicant	Wæky.

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

An EMP Performance Assessment will be submitted to the Management and the DMR on an annual basis.

m) Environmental Awareness Plan

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

Buitehof Boerdery CC will contract DERA Environmental Consultants to inform the employees after the EMP was approved.

The following guidelines will be used:

- ✓ Communication
- ✓ Urge
- ✓ Leadership
- ✓ Teamwork
- ✓ Understanding
- ✓ Recognition
- ✓ Empowerment (CULTURE)

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

The risks will be dealt with by proper management actions as described in 1d

n) Specific information required by the Competent Authority

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

The quantum for rehabilitation liability will be reviewed with the performance assessment on annual basis. See Table 10.

Table 10: Monitoring Plan

Action	Frequency	Method	Period
1.Monitoring of perimeter fence	Monthly and following any	Foot or vehicle patrol. Record	Until closure.
	heavy rainfall.		
2.Monitoring of re-vegetation Mined out and rehabilitated	Every 6 months	Foot inspection Initiate set up of test plots	Until closure.
areas Leveled and		Photograph.	
Rehabilitated Dumps		Transect / Quadrant	
Mine residue dam walls		Get consultants in if necessary.	
Old roads			
Covered over waste pits Rehabilitation plots			
3.Monitoring of erosion	Every 6 months and	Visual inspection	Until closure
Roads	following any heavy	Walk over rehab. Areas	dinii ciodali c
Mine residue dam walls	rainfall "	Drive along roads.	
Rehabilitated mined out areas		Check pipelines and pumps; mine residue dams, dumps.	
Dumps Sumps and pipelings		Photographic records.	
Pumps and pipelines Any other areas			
Monitoring of alien plants	On-going until under	Visual inspection on foot patrol.	On-going until
over the whole site.	control - then every	Map presence of invasive plants.	closure
	6 months.	Plan removal, remove and document area covered on monthly basis.	
5. Monitoring of Water Quality	Every 6 months	Verify Photograph. Build up database and graph the results.	Until closure.
from selected points	with a month	Compare with limits and take action on non-conformances.	Criticioanie.
6. Monitoring of all	Every 6 months.	Survey- map new rehabilitated areas.	Until closure.
Rehabilitation Areas.	\$ 	Plot on map and calculate area treated,	

Check compliance with gradients and variation in topography		Get refiab consultants in if necessary.	
Monitoring of stability of mine Residue dams and water Storage facilities.	Monthly and summarize every 6 months	Follow specifications in mandatory code of practice for puddle dams	Until closure
Monitoring of disposal of metal scrap, old oil, oil filters, old oil, oil filters, old oil drums, oily cloths, batteries, fluorescent tubes, tires and contaminated soil (Hazardous waste)	Monthly and summarize every 6 months.	Record each load sent off the site. Give used oils to Oilkol Ensure sale disposal certificates are obtained from suppliers if the material is given back to them.	Until closure.
9.Monitoring of maintenance of general waste disposal	All loads of waste to be recorded and quantity extrapolated. Covering of waste pit - Monthly.	Running total of loads of waste taken Record of waste taken to Lichtenburg waste disposal site Keeping record of waste taken to disposal site	Until closure
10.Monitoring of condition of septic tanks	Every six months	Visual inspection. Record condition.	Until closure
 Monitoring of condition of bunded Areas around diesel fuel tanks, Refueling area, old oil tank; and underground petrol tank. 	Every six months.	Visual inspection	Until closure
12. Monitoring of water use.	Monthly	Record total water use and water use at different plants by recording flow meters. Ensure compliance with license.	Until closure

2) UNDERTAKING

The Environmental Assessment Practitioner

DE Erasmus

General declaration:

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

- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realize that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the
 proposed activity proceeding other than remuneration for work performed in terms of the Environmental
 Impact Assessment Regulations, 2010;
- I have a vested interest in the proposed activity proceeding, such vested interest being:

The EAP h	erewith 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.	
<u>De</u>		
Signature of	the environmental assessment practitioner	
DERA Or	ngewingskonsultante (Pty) Ltd	

-END-

CHANDRÉ KINNEAR

Name of company

Date

19 February 2019

COMMISSIONER OF OATHS / KOMMISSARIS VAN EDE Appointed in terms of Section 5(1) of Act 16 of 1963 Aangestel in terms van Artikel 5(1) van Wel 16 van 1963 Centrallaan 32 Central Avenue, Flamwood, Klerksdorp Appointed/Aangestel: 16 March 2017 Reference/Verwysing: 9/1/8/2 Klerksdorp