



**mineral resources**

Department:  
Mineral Resources  
**REPUBLIC OF SOUTH AFRICA**

## **SCOPING REPORT**

### **FOR LISTED ACTIVITIES ASSOCIATED WITH MINING RIGHT AND/OR BULK SAMPLING ACTIVITIES INCLUDING TRENCHING IN CASES OF ALLUVIAL DIAMOND PROSPECTING.**

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: **PG VLOK TRUST**

TELNO: **082 418 4494**

FAX NO: -

PHYSICAL ADDRESS: **P.O. Box 547, Douglas, 8730**

FILE REFERENCE NUMBER SAMRAD: **NC30/5/1/1/2/12991 PR**

## IMPORTANT NOTICE

In terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended), the Minister must grant a prospecting or mining right if among others the mining "will not result in unacceptable pollution, ecological degradation or damage to the environment".

Unless an Environmental Authorization 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 authorization for listed activities triggered by an application for a right or 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 Authorization 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.

## OBJECTIVE OF THE SCOPING PROCESS

1. The objective of the scoping process is to, through a consultative process—
  - a. identify the relevant policies and legislation relevant to the activity;
  - b. motivate 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 and confirm the preferred activity and technology alternative through an impact and risk assessment and ranking process;
  - d. identify and confirm the preferred site, through a detailed site selection process, which includes an impact and risk assessment process inclusive of cumulative impacts and a ranking process of all the identified alternatives focusing on the geographical, physical, biological, social, economic, and cultural aspects of the environment;
  - e. identify the key issues to be addressed in the assessment phase;
  - f. agree on the level of assessment to be undertaken, including the methodology to be applied, the expertise required as well as the extent of further consultation to be undertaken to determine the impacts and risks the activity will impose on the preferred site through the life of the activity, including the nature, significance, consequence, extent, duration and probability of the impacts to inform the location of the development footprint within the preferred site; and
  - g. Identify suitable measures to avoid, manage, or mitigate identified impacts and to determine the extent of the residual risks that need to be managed and monitored.

## CONTENT OF THE SCOPING REPORT

### 2. Contact Person and correspondence address

#### a) Details of:

##### i) The EAP who prepared the report

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(a)(i)*

Name of the Practitioner: DERA Environmental Consultants (Pty) Ltd.

Ms HM (Esna) Erasmus

Tel No.: 018-468 5355

Fax No. : 018-011 3760

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

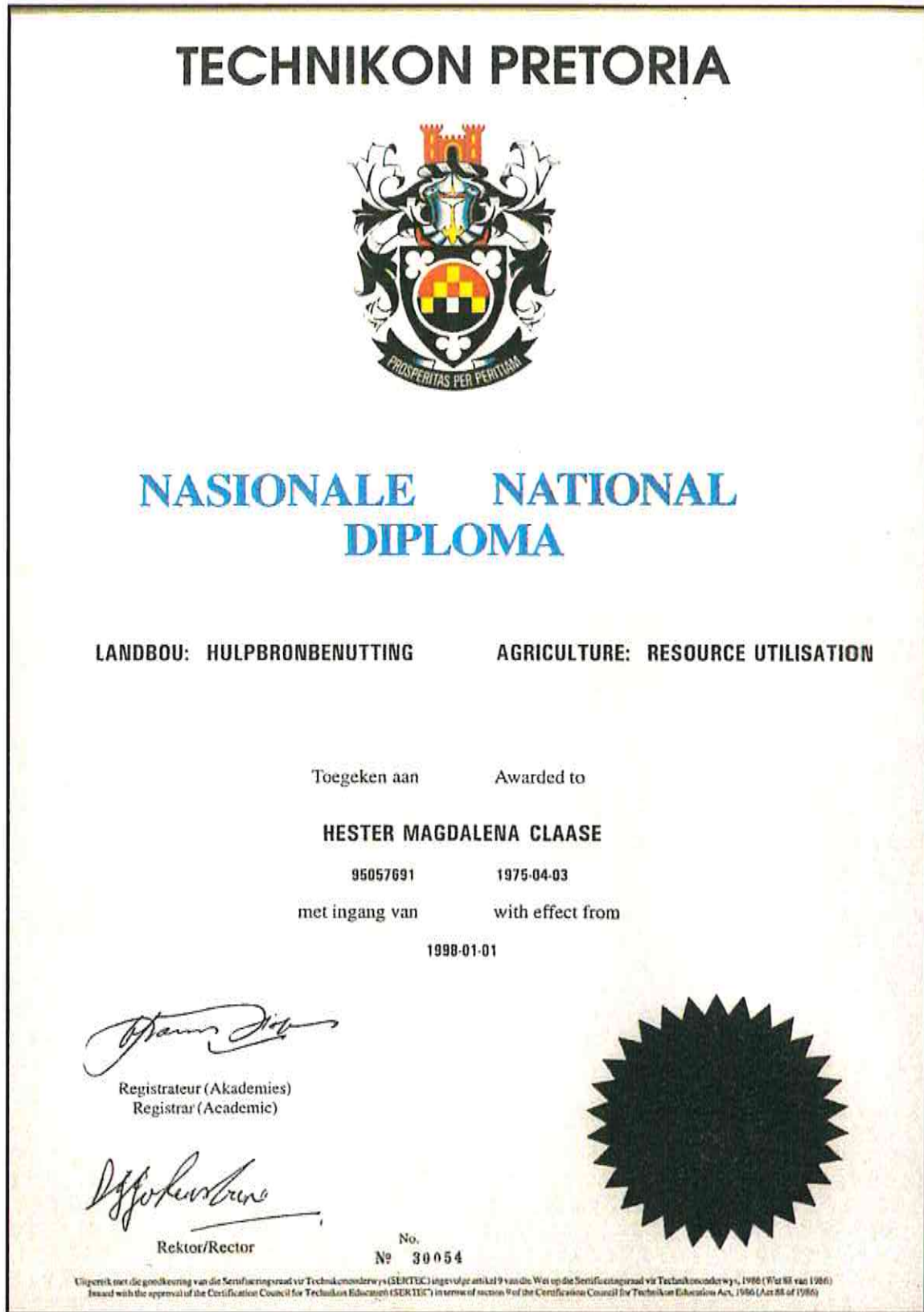
##### ii) Expertise of the EAP.

###### (1) The qualifications of the EAP

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1) (a)(ii)*

The EAP, Ms HM (Esna) Erasmus has a National Diploma in Agriculture Resource Utilization and a Baccalaureus Technologiae degree in Agricultural Management. She also completed the subjects for her Master Degree in Environmental Analysis & Management at NWU. See **Figure 1 & Figure 2** for copies of his qualifications and CV.

Figure 1 – Copy of Qualification



# TECHNIKON PRETORIA



## BACCALAUREUS TECHNOLOGIAE

LANDBOUBESTUUR

AGRICULTURAL MANAGEMENT

Toegeken aan

Awarded to

**HESTER MAGDALENA CLAASE**

95057691

1975-04-03

met ingang van

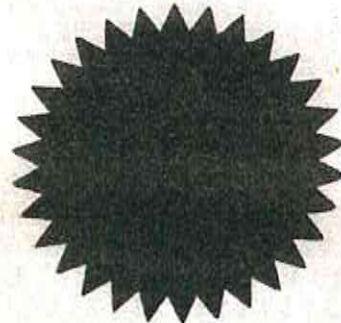
with effect from

2000-12-15

Registrateur (Akademies)  
Registrar (Academic)

Rektor/Rector

E 6280



**(2) Summary of the EAP's past experience.**

HM (Esna) Erasmus (maiden name Claase) is an environmental practitioner with 24 years' experience in Agricultural and Mining Management and Science. Experience in the field of inspection and evaluation of Environmental Impact Assessment in North West. Since 1998 involvement in mining activities with Department of Minerals and Energy in the North West Province as representative for National Department of Agriculture Dir. LRM in the following: Evaluation of Environmental Management Reports Inspection and evaluation of all different mining entities in North West Province. A member of the Slimes Dam Core Committee of North West Province. Involved in the compiling of a strategy for rehabilitation of Gold slime Dams in NW. Give inputs and comments on the revision of EMPR for small scale diamond mining. Involve in setting a strategy to encounter the impact of small scale mining on the environment in North West. See **Figure 3** below Curriculum Vitae of H.M. Erasmus.

# HM (Esna) ERASMUS

ENVIRONMENTAL PRACTITIONER



## CONTACTS

- [esnae@dera.co.za](mailto:esnae@dera.co.za)
- +27 83 4525917
- <http://za.linkedin.com/in/esna-erasmus-1881aba5/>
- Klerksdorp, North-west Province, South Africa

## SKILLS

- Report writing
- Conduct auditing
- Bilingual (English/Afrikaans)
- Computer Proficient
- Report generation and analysis
- Verbal and written communication
- Computer Literate
- Project Management
- Results-orientated
- Conduct risk assessments

## ABOUT ME

Environmental practitioner with 24 years' experience in Agricultural and Mining Management and Science.

Experience in the field of inspection and evaluation of Environmental Impact Assessment in North West.

Since 1998 involvement in mining activities with Department of Minerals and Energy in the North West Province as representative for National Department of Agriculture Dir. LRM in the following:

- Evaluation of Environmental Management Reports
- Inspection and evaluation of all different mining entities in North West Province.
- A member of the Slimes Dam Core Committee of North West Province.
- Involved in the compiling of a strategy for rehabilitation of Gold slime Dams in NW.
- Give inputs and comments on the revision of EMPR for small scale diamond mining.
- Involve in setting a strategy to encounter the impact of small scale mining on the environment in North West.

## WORK EXPERIENCE

<u>JAN 1998</u>	<b>SENIOR RESOURCE CONSERVATION INSPECTOR</b>
<u>JUN 2002</u>	<i>National Department of Agriculture – Potchefstroom, SA</i>
	Manage Administration of Act 48 of 1983, Agricultural Resource Conservation act in North West Province.
	Management of personnel and personnel related matters.
	Management of budget for Potchefstroom office of Directorate Land Resource Management.
<u>JUL 2002</u>	<b>SENIOR ENVIRONMENTAL OFFICER</b>
<u>FEB 2004</u>	<i>Department of Minerals and Energy – Klerksdorp, SA</i>
	Administration of Act 50 of 1991, the Minerals Act in the North West province.
	Evaluation of EMPR's and EIA's.
	Audit and compliance inspections of mining operations.
<u>MAR 2004</u>	<b>ENVIRONMENTAL PRACTITIONER</b>
<u>PRESENT</u>	<i>DERA Environmental Consultants – Klerksdorp, SA</i>
	Compiling and submission of mining related applications; manage and compile legal environmental documents.
	Monitoring work to evaluated compliance to environmental legislation; evaluating outstanding rehabilitation liabilities for mining companies.
	Risk assessment and applications for closure certificates.
	Compile EMPR/EIA for Mining Rights and compilation of EMPlan's for Prospecting and Mining Right applications.
	Compile BAR & EMPR's in support of applications for listed activities under NEMA such as Chicken Broilers, Feed lots, Fuel Storage, ect.
	Manage consultation between Departments and applicants.



**EDUCATION**



<u>1993</u>	<p><b>HIGH SCHOOL DIPLOMA</b>  <i>Middelburg High School – Middelburg, Mpumalanga, SA</i>                      English Afrikaans                      Biology History                      Geography Accounting</p>
<u>1998</u>	<p><b>NATIONAL DIPLOMA: AGRICULTURE: RESOURCE UTILISATION</b>  <i>Tshwane University of Technology – Pretoria, Tshwane, SA</i>                      Animal Production I Computer Application I                      Pasture Science I Physical Science I                      Agricultural Marketing II, II and III                      Poultry Production II Crop Production I, II                      Agricultural Soil Science I Agricultural Mechanization I                      Agricultural Production Management III                      Agricultural Extension II Large Stock Production II                      Horticulture III Agricultural Anatomy &amp; Physiology I                      Farm Planning I Soil Conservation II</p>
<u>2000</u>	<p><b>BACCALAUREUS TECHNOLOGIAE: AGRICULTURAL MANAGEMENT</b>  <i>Tshwane University of Technology – Pretoria, Tshwane, SA</i>                      Financial Management IV Strategic Management IV                      Plant Production IV Leadership Development II</p>
<u>2004</u>	<p><b>MATERS OF ENVIRONMENTAL SCIENCES IN ENVIRONMENTAL SCIENCES AND MANAGEMENT- uncompleted</b>  <i>North-West University – Potchefstroom, North West</i>                      Introduction to environmental management                      Applied Environmental Management                      Environmental Management                      Theoretical Hydrology                      Urban Ecology                      Introduction to GIS                      Applied GIS                      Applied Hydrology                      Environmental Analysis                      Research Proposal – uncompleted                      Final dissertation - uncompleted</p>

**SHORT COURSES**



- Computer training Dbase IV
- Seminar in public speaking
- Veld assessment course
- Resource identification and utilization course – September 1998
- Introduction to GIS – June 2001
- Persuasion skills
- Wetlands identification
- Wetlands Rehabilitation – August 2001
- Management skills
- Environmental Risk Assessment and Management – August 2005
- Mining and the Environment – October 2005

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#### EIA- EXPERIENCE

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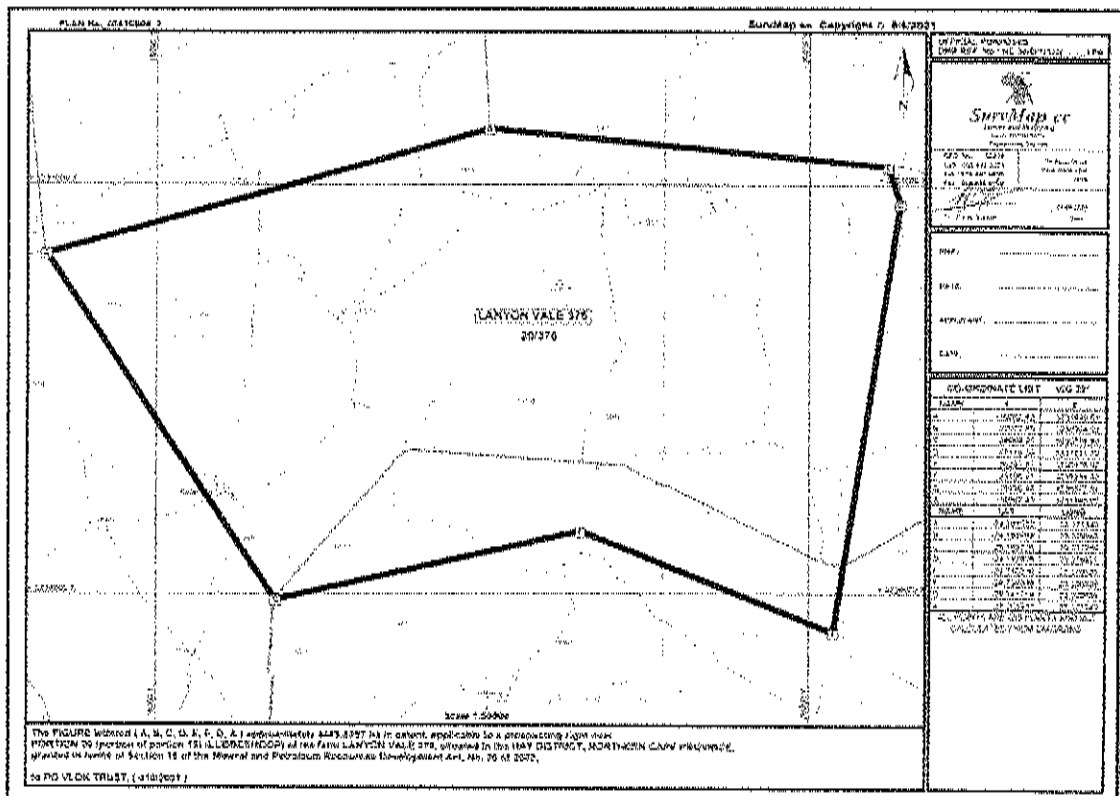
The following list of EIA's was just some that was done by me:

- FJ de Beer [Doornfontein] – was done as part of a Prospecting Right Application with Bulk Sampling, my role entailed: site visit, impact assessment and evaluation and compilation of report and handling of application process.
- Hartzer & Steyn Beleggers [Zwartplaat] - was done as part of Mining Right Application with Bulk Sampling, my role entailed: site visit, impact assessment and evaluation and compilation of report and handling of application process.
- Bethlehem Sand en Klip CC [killarney] - was done as part of Mining Right Application, my role entailed: site visit, impact assessment and evaluation and compilation of report and handling of application process.
- KMF Agro Processing (Pty) Ltd [Rietfontein] - was done as part of an Environmental Authorization for a listed activity, for the construction of Chicken slaughter facility, my role entailed: site visit, impact assessment and evaluation and compilation of report and handling of application process.
- Summit Ridge [Graslaagte] - was done as part of an Environmental Authorization for a listed activity for feed mill for chicken feed, my role entailed: site visit, impact assessment and evaluation and compilation of report and handling of application process.

#### b) Location of the activity

(i) 21 digit Surveyor General Code for each farm	C03100000000037600020																											
(ii) Farm Name:	LANYON VALE 376 • PORTION 20 (portion of portion 15) (Lubbeshoop)																											
(iii) Coordinates - Co-ordinates List WG 27°	<table border="1"> <thead> <tr> <th>NAME</th> <th>LAT</th> <th>LONG</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>-29.203533</td> <td>23.171340</td> </tr> <tr> <td>B</td> <td>-29.199768</td> <td>23.228945</td> </tr> <tr> <td>C</td> <td>-29.193776</td> <td>23.277299</td> </tr> <tr> <td>D</td> <td>-29.197859</td> <td>23.278821</td> </tr> <tr> <td>E</td> <td>-29.245216</td> <td>23.270531</td> </tr> <tr> <td>F</td> <td>-29.234048</td> <td>23.238538</td> </tr> <tr> <td>G</td> <td>-29.241719</td> <td>23.200084</td> </tr> <tr> <td>A</td> <td>-29.203533</td> <td>23.171340</td> </tr> </tbody> </table>	NAME	LAT	LONG	A	-29.203533	23.171340	B	-29.199768	23.228945	C	-29.193776	23.277299	D	-29.197859	23.278821	E	-29.245216	23.270531	F	-29.234048	23.238538	G	-29.241719	23.200084	A	-29.203533	23.171340
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Application area (Ha)	4449, 5397 ha																											
Magisterial district:	The area is situated in the Hay District of the Northern Cape. Douglas is the nearest town to the application area. The town is in the Northern Cape Province of South Africa 90 kilometres by R357 road west from the city of Kimberley.																											
Distance and direction from nearest town	Approximately 71 km southwest of Douglas.																											
Minerals applied for	Alluvial Diamonds (DA) & Diamonds in Kimberlite (DK).																											

Figure 4 – Sketch plan of application area



c) **Locality map**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(c)(i)(ii)*

(i) & (ii)

See **Appendix 1(a) - Locality Map** indication where the applied area are situated within the district of Hay, Free State and **Appendix 1(b) – Infrastructure and Activity Map** indication applied area with attached coordinates of the area.

**Appendix 1(a) – Locality Map  
&  
Appendix 1(b) – Infrastructure and Activity Map**

d) **Description of the scope of the proposed overall activity**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(d)(i)(ii)*

The applicant applied for a **Prospecting Right over: the PORTION 20 (portion of portion 15) (Lubbeshoop) of the FARM LANYON VALE 376**, the application area is situated over a rural area of the Northern Cape Province. The area is characterized as being rural area under natural vegetation and used for grazing (for Dorper sheep). There is not a lot of infrastructure over the application area, only fence lines, farm roads, farm dwelling with stores, windmills with cement dams/reservoirs. There are further no structures of infrastructure over this property. The scope of the prospecting activities will entail that the prospecting area will be identified through geological surveys and mapping. **The extent of the prospecting area is 4449.5 hectares.** Information from Geological surveys will be used in order to determine where the test pits will take place. This will in turn help to determine the boundaries of the proposed prospecting area for more detailed surveying. **The prospecting phase will only be: Phase 1 – Geological desktop studies and surveys, Phase 2 – Test pits and Phase 3 – Bulk Sampling.** See **Appendix 1(b)** for an indication of the proposed main listed activities and existing/proposed infrastructure and **Figure 5 – Google Earth Images** for more detail of what the side looks like pre-prospecting. Access to the application area is gained via existing roads 71 km southwest out of Douglas. All of the area is under natural veld. Only a small portion of the 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 after Phase 1 is completed. The area applied for is over the entire portion.** It is envisaged that all impacts on the environment can be properly managed and mitigated and no high negative long-term impacts will take place.

**Figure 5 – Google Earth Images**



**i) Listed and specified activities**

The area is characterized as being in a rural area under natural vegetation and used for grazing. There is not a lot of infrastructure over the application area, only fence lines, farm roads, farm dwelling with stores, windmills with cement dams/reservoirs. There are further no structures of infrastructure over this property, see **Appendix 1(b)** for an indication of the proposed main listed activities and existing/proposed infrastructure and **Figure 5** – Google Earth Images for more detail of what the site looks like pre-prospecting. Access to the application area is gained via existing roads 71 km southwest out of Douglas. Only a small portion of the 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 after Phase 2 is completed. The area applied for is over the entire portion. See **Table 1** below as submitted as part of the prospecting works program indicating what the main listed prospecting activities will be. Also see **Table 2** below for NEMA Listed Activities as applied for in the Environmental Authorization which form part of the application.

**Table 1: Main listed prospecting activities**

Phase	Activity	Skill(s) required	Timeframe	Outcome	Timeframe for outcome	What technical expert will sign off on the outcome?
1.	Geological surveys	Geologist	1 - 12	Maps	From month 1 - 12	Geologist
2.	Test pits	Excavator operator & Manager(applicant)	13 - 24	Areas where alluvial diamond gravel is found will be identified.	From month 13 - 24	Experienced applicant
3.	Bulk Sampling	Excavator operator; Frond end loader operator; Washing pan operators & Manager	25 - 46	Diamonds found from bulk sample will be evaluated in terms of carats/100ton and value in \$/carat.	From month 25 - 46	Manager and applicant

**Table 2: Listed Activities**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(d)(i)*

NAME OFACTIVITY	Aerial extent of the Activity (Ha or m <sup>2</sup> )	LISTED ACTIVITY	APPLICABLE LISTING
<p><b>Listing 1 – Activity 20:</b> 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—</p> <p>(a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource; or</p> <p>(b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing; 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 Listing Notice 2 applies.</p>	4449,5 ha	X	327
<p><b>Listing 1 – Activity 27:</b> 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—</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</p>	2 ha	X	327
Plant area where washings pans and stockpiles will be			
<p><b>Listing 2 – Activity 19:</b> The removal and disposal of minerals contemplated in terms of section 20 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including=</p> <p>(a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource; or</p> <p>(b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing;</p> <p>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.</p>	2 ha	X	325
Stockpiles of topsoil next to the open excavation			
Roads within the prospecting area			
Ablution facilities, chemical and flush toilets			
Test pits been excavated and trenches for the bulk			
Temporary office buildings			

**ii) Description of the activities to be undertaken**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(d)(ii)*

**Table 3: Description of Activities to be followed**

Activities	Description of phases	Associated structures and infrastructures
Phase 1	Geological desktop studies and surveys in order to try and identify the gravel run. Various geological maps and instruments will be used to identify if alluvial gravel deposits and or kimberlite pipes might be present on the application area. <b>12 Months needed for phase 1.</b>	No infrastructure.
Phase 2	In Phase 2 test pits will concentrate on the areas where the outcrops anticipated gravel potential. The pits will be made (2 m x 2 m x ± 5m deep), on a grid of 100 x 100meters and where necessary on a 50 x 50 meters grid where the gravel outcrops. These test pits are made with a 30 ton excavator. These boundaries will be surveyed and mapped in order to determine where bulk samples will be taken. It is envisaged that <b>150 test pits</b> will be excavated. Each pit will be examined and closed up immediately before the excavator move on to the next one. <b>12 Months are needed for Phase 2</b>	The topsoil and grass will be cleaned on the small area of 2 m x 2 m x (5 m depth) where the test pits will be excavated. After evaluation of the gravel the test pit will be closed. Rehabilitation of the test pits back to original land capability/use with topsoil and proper leveling.  <b>Total surface area disturbed: 150 pits x 2m x 2m= 0,06 ha</b>
Phase 3	In order to determine if the gravel does have diamonds the gravel needs to be taken out and tested, by putting it through the washing process. Trenching will be used to open the gravel in order to get a representative sample for testing. <b>The trenches will be 10 x 60 x ± 5 m (deep).</b> In one trench ± 3000m <sup>3</sup> (4800 ton) gravel will be exposed and tested with a 16 feet washing pan at a rate of 15m <sup>3</sup> (24 ton) an hour.  The total prospecting area is 4449,5 hectares, thus it is anticipated that a total of 30 000m <sup>3</sup> (48 000ton) will be tested by making <b>10 trenches</b> on different locations over the whole prospecting area, where the possibility of diamond bearing gravel were identified with the test pits. Taken at an 8 hour working day, 5 days a week and 20 days a month, the applicant will be able to process 2400m <sup>3</sup> a month. <b>The processing of 30 000m<sup>3</sup> will take about 22 months for Phase 3 including the rehabilitation.</b>	The washing pan will be on the plant area with stockpiles.  <b>Total surface area disturbed: 10 trenches x 10m x 60 m = 0.6 ha</b>

e) **Policy and Legislative Context**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(e)*

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED	HOW DOES THIS DEVELOPMENT COMPLY WITH AND RESPOND TO THE POLICY AND LEGISLATIVE CONTEXT
<b>National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA)</b> 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 has been triggered by applications in terms of the Minerals and Petroleum Resources Development Act, 2002 (As mentioned).	Activity 20, listing 1 Activity 19, listing 2. Activity 27, listing 1	Prospecting Right application submitted and EA application with DMR
<b>National Environmental Management Act, 1998 (Act 107 of 1998): Environmental Impact Assessment Regulations, 2014 (G38282 – R962-965)</b> EA Authorization and EIA/EMP. Submit documents that will describe the impacts and sustainable mitigation thereof. Compliance to Act and Regulations during course of activities. Show impacts and mitigation thereof.	Regulation 21	Scoping Report Report in process
<b>National Water Act, 1998 (Act 36 of 1998)</b> Application for Water abstraction for mining use	Section 21 (a)	Application for water use license with DWS, will follow.
<b>Conservation of Agricultural Resources Act No 43 of 1983</b> Compliance to Act and Regulations during course of activities. Stabilization of soil after rehab to be sustainable with no erosion. Eradication of declared weeds	Section 29	Regulation will be applicable during construction and operational phases of mining.
<b>National Heritages Resources Act, 1999 (Act 25 of 1999)</b> Compliance to Act and Regulations during course of activities. Ensure that no graves or heritage site will be disturbed.	Section 36	SAHRA was notified process will be followed.

f) **Need and desirability of the proposed activities.**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(f)*

The applicant believes that the applied area has prospects for: *Alluvial Diamonds and Diamonds in Kimberlite* as applied for. According to **NEMA's Screening Tool/Report (Appendix 3)** there are three sensitivity features that need to be taken into consideration when prospecting over this area. The first being the palaeontology, aquatic biodiversity and the third being terrestrial biodiversity. There are further a 4 **smaller tributary (dry (intermittent) stream courses) flowing into the Orange River that cuts through the 4449, 5 application area.** All of the above features need to be taken cognisance off and management measures must be put in place to manage or prevent any impact on it. There are other alluvial diamonds mining operations around Douglas and Schmidtsdrif. The possible employee positions that could emerge could also be a great opportunity for revenue generation in this rural area. The locality of the activities is over the entire farm portions. The specific activities as listed will be over the whole areas of the application area. Where the potential of a gravel run is found with the geological surveys of phase 1, test pits will be made during phase 2, and followed by bulk sampling of phase 3 and washing/sampling will take place. The duration of the activities will be 4 years.

g) **Period for which the environmental authorization is required**

Four (4) years.



**h) Description of the process followed to reach the proposed preferred site.**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(h)*

The prospecting area was identified through aerial photographs. The extent of the prospecting area will be 4449.5 hectares. Information from Geological surveys will be used in order to determine where the test pits will take place. This will in turn help to determine the boundaries of the proposed prospecting area for more detailed surveying.

**PHASE 1:**

Geological desktop studies and surveys in order to try and identify the gravel run. Various geological maps and instruments will be used to identify if alluvial gravel deposits and or kimberlite pipes might be present on the application area. **12 Months needed for phase 1.**

**PHASE 2:**

In Phase 2 test pits will be made (**2 m x 2 m x ± 5m deep**), on a grid of 100 x 100meters and where necessary on a 50 x 50 meters grid where the gravel outcrops. These test pits are made with a 30 ton excavator, to determine if any diamond bearing gravel does occur. This test pits will be closed up immediately before the excavator move on to the next one. **12 Months are needed for Phase 2.**

**PHASE 3:**

In order to determine if the gravel does have diamonds the gravel needs to be taken out and tested, by putting it through the washing process. Trenching will be used to open the gravel in order to get a representative sample for testing. The trenches will be **10 x 60 x ± 5 m (deep)**. In one trench ± 3000m<sup>3</sup> (4800 ton) gravel will be exposed and tested with a 16 feet washing pan at a rate of 15m<sup>3</sup> (24 ton) an hour. The **total prospecting area is 4449,5 hectares**, thus it is anticipated that a total of 30 000m<sup>3</sup> (48 000 ton) will be tested by making **10 trenches** on different locations over the whole prospecting area, where the possibility of diamond bearing gravel were identified with the test pits. Taken at an 8 hour working day, 5 days a week and 20 days a month, the applicant will be able to process 2400m<sup>3</sup> a month. **The processing of 30 000m<sup>3</sup> will take about 22 months for Phase 3 including the rehabilitation.**

**i) Details of all alternatives considered.**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(h) (g)(i)*

Alternative is not applicable. Since it is a rural area and the local grow and development in this area is very slowly. Prospecting operation like this contributes to local economic growth and work opportunities in such a rural area. As can be seen on **Figure 5**, the current land use is grazing. The specific land applied for is the area to believe that minerals can be explored. The option to explore the possibility for prospecting is already in itself an alternative land use. The applicant, **PG Vlok Trust**, is not interested in any other alternative land use over this land aside of exploration of the said minerals *Alluvial Diamonds (DA) & Diamonds (in Kimberlite) (DK)*, or any other activity, or method use other than prospecting for it 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. The prospecting focus area will only be determined after Phase 2 (Test Pits) is completed. And the whole of the application area will systematically be prospected eventually. There are no alternative sites as the whole of the application area was identified as being favourable to bear *Alluvial Diamonds (DA) & Diamonds (in Kimberlite) (DK)*.

(b) the type of activity to be undertaken

The type of activity is in line with the submitted Prospecting Work Programme (PWP). *Alluvial Diamonds (DA) & Diamonds (in Kimberlite) (DK)* prospecting normally uses the opencast prospecting method in order to access the mineral where after it is tested. Testing will be done on site by use of washing pans. There are no alternatives to the testing of the mineral as this is the conventional manner in which it is done. Better technology requires bigger volumes to be processed and this will not be possible under a prospecting right for *Diamonds*. As this is only prospecting operation it will be the basic opencast method with associated machinery.

(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, see **Figure 4** as submitted with the application. And the whole of the application area will systematically be prospected eventually. There are no preferred sites as the whole of the application area was identified as being favourable to be tested through test pits. Once phase 2 – test pits was completed, will there be determined where the trenching will be made. This prospecting operation will also not be a static operations as the whole of the application area will be tested via test pits on a grid basis in order to determine where the possible Alluvial Diamonds (DA) & Diamonds (in Kimberlite) (DK) run. They will have a temporary container that will serve as site office and the gravel to be tested will be done next to the open excavations. There will also be temporary chemical toilets on the site for ablution facilities. There will not be services to machinery done on site and in case of emergency it will be done over a PVC lining. This operation will be a basic small scale prospecting layout, with minimal temporary infrastructure and just the necessary equipment.

(d) the technology to be used in the activity

The technology used in the activity will be as described in the PWP and the best options will be determined by the applicant, which will be test pits and bulk sampling through trenching. The technology used with regards to the testing of the Alluvial Diamonds (DA) & Diamonds (in Kimberlite) (DK) is putting it through a washing plant. The washing plant will be set up next to the open excavation and will only be moved once the excavation is closed up. Phase 2 will be test pits and this will use an excavator to open pits which will only be visually inspected by the geologist, there are not much alternatives for this activity, Phase 3 will be excavation of a representative bulk sample and this will be done by conventional opencast excavations. The technology used in the activity will as described in the Prospecting Programme and the best options will be determined by the applicant. They will basically be using excavators to open the test pits and take out bulk samplings, as well as a front-end loader to move the material to be tested to the washing pan.

(e) the operational aspects of the activity, and

The technology used in the activity will be as described in the PWP and the best options will be determined by the applicant, which will be test pits and bulk sampling through trenching. The technology used with regards to the testing of the Alluvial Diamonds (DA) & Diamonds (in Kimberlite) (DK) is putting it through a washing plant. The washing plant will be set up next to the open excavation and will only be moved once the excavation is closed up. Phase 2 will be test pits and this will use an excavator to open pits which will only be visually inspected by the geologist, there are not much alternatives for this activity, Phase 3 will be excavation of a representative bulk sample and this will be done by conventional opencast excavations. The technology used in the activity will as described in the Prospecting Programme and the best options will be determined by the applicant. They will basically be using excavators to open the test pits and take out bulk samplings, as well as a front-end loader to move the material to be tested to the washing pan.

(f) the option of not implementing the activity

This option might only be possible if the applicant decide to abandon the project. If this application is not implemented the current landowners will just continue with existing agricultural activities which is grazing. Thus not exploiting the mineral reserve and somebody else can apply.

**ii) Details of the Public Participation Process Followed**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(h) (g)(ii)*

The process as described by NEMA for Environmental Authorization was followed. See Table 4 below for the identification of Interested and Affected Parties to be consulted with. The landowner (AC Vlok, member of PG Vlok Trust), neighbours and land users will be consulted personally and through written letter that are given to them by hand. A site notice was placed at the entrance to the application area. 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 DFA Newspaper of 4<sup>th</sup> February 2022, response is awaited. See proof of consultation already done under Appendix 2. The Public Participation process is still on going and the documents will be updated as more feedback is received back. The Scoping Report was send to all relevant State Departments for evaluation. No comments were received.

**Appendix 2 – Proof of consultation**

[PG VLOK TRUST –LANYON VALE 376 (NC30/5/11/2/12991PR)]

iii) Summary of issues raised by I&AP's

In terms of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(f)(i) (g)(iii)

Table 4: Summary of Public Participation outcome

AFFECTED PARTIES	Interests and Affected Parties List the names of persons consulted in this column, and mark with an 'X' where those who must be consulted were in fact consulted.	Date sent and/or Comments Received	Issues raised	EAP's response to the applicant
Landowners	X	18 Jan 2022	No objection as the applicant is also the landowner	
PG Vlok Trust (A.C. Vlok) (Landowner and applicant) P.O. Box 547, Douglas, 8730 Cell: 082 418 4494 E-mail: <a href="mailto:pvlok@vodanet.co.za">pvlok@vodanet.co.za</a> or <a href="mailto:pvlok@gmail.com">pvlok@gmail.com</a>	X	18 Jan 2022 5 Feb 2022	No objection, see signed consultation letter.	
Landowners or lawful occupiers of the adjacent properties Mr. J.F. Gouws (Neighbour) Wolterspan Boerdery (Pty) Ltd P.O. Box 609, Douglas, 8730 Cell: 082 785 9360 E-mail: <a href="mailto:gouwsj@gmail.com">gouwsj@gmail.com</a>		18 Jan 2022 31 Jan 2022	No objection, support project, see signed consultation letter.	
Swiegers Boerdery Trust (Neighbour) 2 Christo Groenewald Street, Hesoon Hoopie, Boomsfontein, 9301 Cell: 084 491 2703 E-mail: <a href="mailto:liebswiegers2703@gmail.com">liebswiegers2703@gmail.com</a>		18 Jan 2022 3 Feb 2022	No objection, see signed consultation letter.	
Mr. C.L. Hager (Neighbour) P.O. Box 65, Douglas, 8730 Cell: 086 188 6151 E-mail: <a href="mailto:loushager1@outlook.com">loushager1@outlook.com</a>		18 Jan 2022 28 Jan 2022	No objection, see signed consultation letter.	
Municipal councillor Municipality Siyancuma Local Municipality Municipal Manager: Mr. H.F. Nel Civic centre, Chief Ollers str. Douglas, 8730 Fax: 053 298 3141; Tel: 053 298 1810 E-mail: <a href="mailto:douglas@siyancuma.gov.za">douglas@siyancuma.gov.za</a>	X	18 Jan 2022	Consultation letter to Mr. Nel.	
Organs of state (Responsible for infrastructure that may be affected) Roads Department, Eskom, Telkom, DWA.		18 Jan 2022	E-mail sent to verify any land claims	
Eskom Communities				
Dept. Land Affairs Ms. Ruwayda Bezalackey Tel: 053 807 5760; E-mail: <a href="mailto:bezalackey@odrfr.gov.za">bezalackey@odrfr.gov.za</a>	X			
Traditional Leaders MIA				
Dept. Agriculture, Land Reform and Rural Development & Environmental Affairs	X			

**[PG VLOK TRUST –LANYON VALE 376 (NC30/5/1/1/2/12991PR)]**

Thembiwe Mabuza 92 Harrison Street, De Beers, Kimberley, 8301 Cell: 084 869 4976 162 George Street, Private Bag X 5018, Kimberley Building, Kimberley, 8300 Tel: 053 838 9100; Fax: 053 831 4685	18 Jan 2022	Scoping Reports send with Courier Guy for comments
Dept. Water and Sanitation Chief Director: Northern Cape Leabato Mkhwanisi 28 Central Road, Beaufortfield, Kimberley, 8300 Tel: 083 655 8312; E-mail: Mkhwanisi.L@dohs.gov.za	X	Scoping Reports send with Courier Guy for comments
Dept. Agriculture, Forestry and Fisheries DALRAEA has indicated that they will forward the document to DAFF	X	
Other Competent Authorities		
OTHER AFFECTED PARTIES		
INTERESTED PARTIES SAHRA P.O. Box 4637, Cape Town, 8000 Tel: 021 462 4562 e-mail: info@sahra.org.za	X	

**Notice published in the DFA Newspaper of 4<sup>th</sup> February 2022**

[PG VLOK TRUST –LANYON VALE 376 (NC30/5/1/1/2/12991PR)]

**PLACEMENT OF ADVERT AT GATE:**

<p>Photo 1</p> 	<p>Photo 2</p> <p><b>APPLICATION FOR AN ENVIRONMENTAL AUTHORIZATION FOR THE PROPOSED ACTIVITIES.</b></p> <p>Notice is given for the following application:</p> <p>1) Environmental authorization application for prospecting.</p> <ul style="list-style-type: none"> <li>• Proponent: The applicant is PG Vlok Trust</li> <li>• Ref. no.: NC30/5/1/1/2/12991PR</li> <li>• Property description: The proposed prospecting area is over Portion 20 (portion of portion 15) (Lubbehoop) of the Farm Lanyon Vale 376 in the Hay district. The total extent of the prospecting area is 4448 5397 hectares. (21 SG digital code: CO310000000037600020)</li> <li>• Location: The property is situated ±45 km south of Douglas.</li> <li>• Project description: The purpose of the application is to obtain the required authorization from the Department to successfully undertake geological surveys, test pits and bulk sampling</li> <li>• Process followed - Scoping Report</li> <li>• Activity applied for: the following activities as listed in terms of NEMA (Act No 107 of 1998) as amended and EIA Regulations, 2014 was applied for under Activity 19, Listing Notice 2 – GNR 325 of 2014, Activity 20, Listing Notice 1 – GNR 327 of 2014, and Activity 27, Listing 1 – GNR 327 of 2014</li> <li>• Minerals applied for: Diamonds Alluvial &amp; Diamonds in Kimberlite</li> <li>• Date submitted: 23 July 2021</li> <li>• Stakeholder involvement: Stakeholders are invited to register as interested and affected parties and to participate in the application process by identifying issues of concern and suggestions for consideration in the Scoping Report. I&amp;AP's can contact Dera Environmental Consultants for any further information required. Please submit your written comments by mail, fax or e-mail in this 30 day of this notice to</li> </ul> <p>• Date of advertisement: Friday 4 February 2022</p> <p>Mrs. Esna Erasmus of DERA Environmental Consultants          PO Box 6496 E-mail: <a href="mailto:dera.office@dera.co.za">dera.office@dera.co.za</a>          Fiumwood Tel: 018 468 5365          2572 Fax: 018 011 3760          Cell: 082 895 3516</p>
<p>GPS Location: S -29.224925° E 23.238971°</p>	

iv) The Environmental attributes associated with the sites

(1) Baseline Environment

In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(h) (g)(iv)

**Introduction:** 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: **PORTION 20 (portion of portion 15) (Lubbeshoop) of the FARM LANYON VALE 376** the area is characterized as natural veld used as grazing land (for Dorper sheep).

**Magisterial District:** The area is situated in the **Hay District of the Northern Cape**. Douglas is the nearest town to the application area. The town is in the Northern Cape Province of South Africa 90 kilometres by R357 road west from the city of Kimberley.

**Direction from neighbouring town:** The proposed prospecting area is approximately 71 km southwest of Douglas.

**Longitude (approximate centre of prospecting site):** 23.230050° E

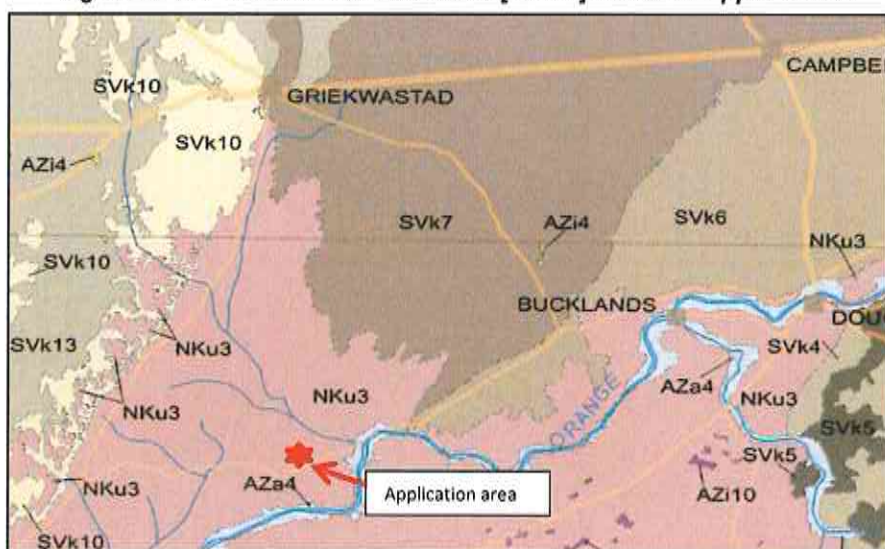
**Latitude (approximate centre of prospecting site):** -29.210166° S

**Existing Surface Infrastructure:** The structures found over this area are only boundary fence lines and a gravel road that cuts through the application area a farm dwelling with stores, some windmills with a cement dams. There are further no structures or infrastructure over this property. See **Appendix 1(b)** for an indication of the proposed main listed activities and existing/proposed infrastructure and **Figure 5** – Google Earth Images for more detail of what the site looks like pre-prospecting. Access to the application area is gained via existing gravel roads south of Douglas town.

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

**Vegetation [Flora] and Landscape Features:** According to VEGMAP (2006) the area falls within the [NKu 3] Northern Upper Karoo. VT 35 False Arid Karoo (35%), VT 36 False Upper Karoo (27%) (Acocks 1953). LR 50 Upper Nama Karoo (44%), LR 52 Eastern Mixed Nama Karoo (24%) (Low & Rebelo 1996). See Figure 6 below.

**Distribution:** Northern Cape and Free State Provinces: Northern regions of the Upper Karoo plateau from Prieska, Vosburg and Carnarvon in the west to Philipstown, Petrusville and Petrusburg in the east. Bordered in the north by Niekerkshoop, Douglas and Petrusburg and in the south by Carnarvon, Pampoenpoort and De Aar. A few patches occur in Griqualand West. Altitude varies mostly from 1 000-1 500 m. Shrubland dominated by dwarf karoo shrubs, grasses and *Acacia mellifera subsp. definens* and some other low trees (especially on sandy soils in the northern parts and vicinity of the Orange River).

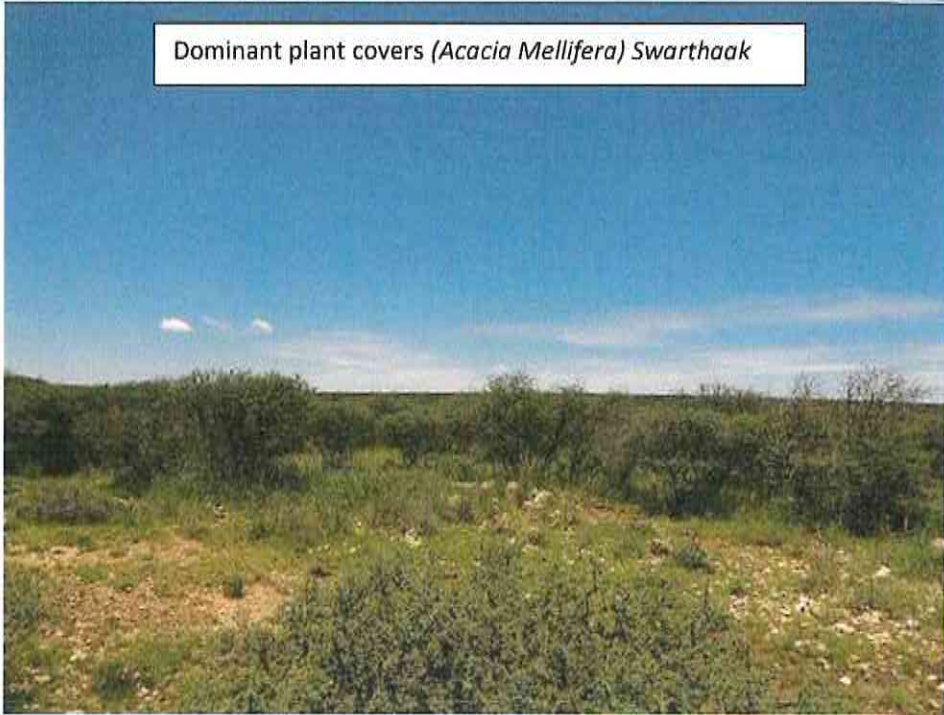
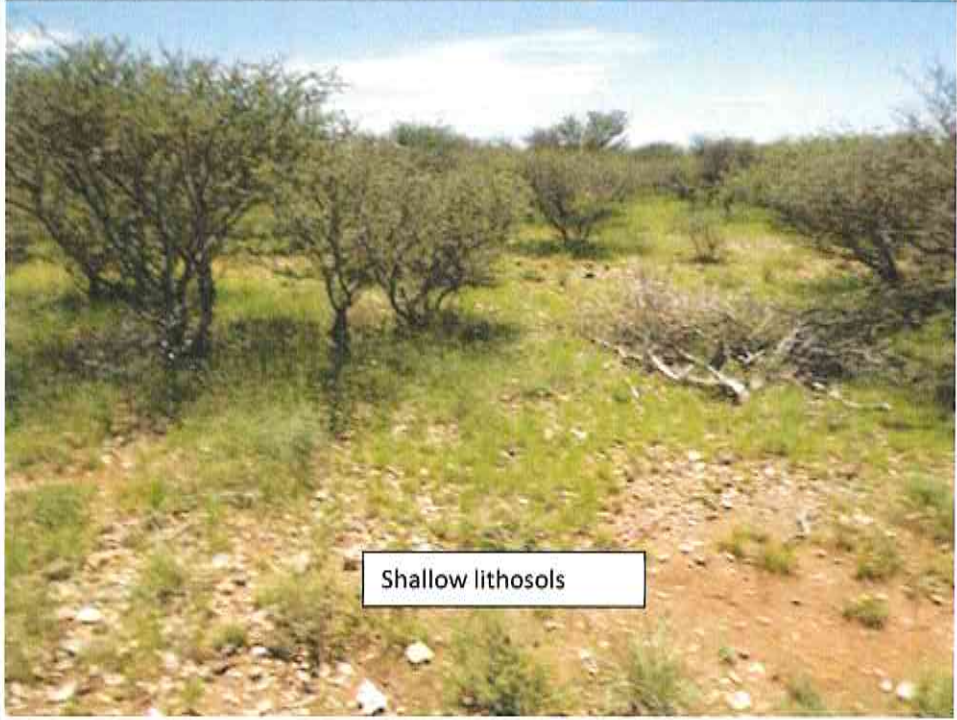
**Figure 6: The VEGMAP classification: [NKu 3] Northern Upper Karoo**

**Important Taxa - Small Trees:** *Acacia mellifera* subsp. *detinens*, *Boscia albitrunca*. **Tall Shrubs:** *Lycium cinereum* (d), *L. horridum*, *L. oxycarpum*, *L. schizocalyx*, *Rhigozum trichotomum*. **Low Shrubs:** *Chrysocoma ciliata* (d), *Gnidia polycephala* (d), *Pentzia calcarea* (d), *P. globosa* (d), *P. incana* (d), *P. spinescens* (d), *Rosenia humilis* (d), *Amphiglossa triflora*, *Aptosimum marlothii*, *A. spinescens*, *Asparagus glaucus*, *Barleria rigida*, *Berkheya annectens*, *Eriocephalus ericoides* subsp. *ericoides*, *E. glandulosus*, *E. spinescens*, *Euryops asparagoides*, *Felicia muricata*, *Helichrysum lucilioides*, *Hermannia spinosa*, *Leucas capensis*, *Limeum aethiopicum*, *Melolobium candicans*, *Microloma armatum*, *Osteospermum leptolobum*, *O. spinescens*, *Pegolettia retrofracta*, *Pentzia lanata*, *Phyllanthus maderaspatensis*, *Plinthus karooicus*, *Pteronia glauca*, *P. sordida*, *Sebago geniculata*, *S. saxatilis*, *Tetragonia arbuscula*, *Zygophyllum lichtensteinianum*. **Succulent Shrubs:** *Hertia pallens*, *Salsola calluna*, *S. glabrescens*, *S. rabieana*, *S. tuberculata*, *Zygophyllum flexuosum*. **Semi parasitic Shrub:** *Thesium hystrix* (d). **Herbs:** *Chamaesyce inaequilatera*, *Convolvulus sagittatus*, *Dicoma capensis*, *Gazania krebsiana*, *Hermannia comosa*, *Indigofera alternans*, *Lessertia pauciflora*, *Radyera urens*, *Sesamum capense*, *Sutera pinnatifida*, *Tribulus terrestris*, *Dahlia capensis*. **Succulent Herb:** *Psilocaulon coriarium*. **Geophytic Herb:** *Moraea pallida*. **Graminoids:** *Aristida adscensionis* (d), *A. congesta* (d), *A. diffuse* (d), *Enneapogon desvauxii* (d), *Eragrostis lehmanniana* (d), *E. obtuse* (d), *E. truncata* (d), *Sporobolus fimbriatus* (d), *Stipagrostis obtusa* (d), *Eragrostis bicolor*, *E. porosa*, *Fingerhuthia africana*, *Heteropogon contortus*, *Stipagrostis ciliata*, *Themeda triandra*, *Tragus berteronianus*, *T. koelerioides*, *T. racemosus*. **Biogeographically Important Taxa Herb** (western distribution limit): *Convolvulus boedeckerianus*. **Tall Shrub** (southern limit of distribution): *Gymnosporia szyszlowiczii* subsp. *namibiensis*. **Endemic Taxa Succulent Shrubs:** *Lithops hookeri*, *Stomatium pluridens*. **Low Shrubs:** *Atriplex spongiosa*, *Galenia exigua*. **Herb:** *Manulea deserticola*. **References** Acocks (1953, 1988), Werger (1980), Palmer (1990).

Some indication of the original vegetation type could be found on the 4449.5 ha. Though the years the site have been disturbed by historic mining and agricultural activities. This is a brownfields site.

See photo table (next few pages)



	Photo
1	<p data-bbox="571 300 1225 353">Dominant plant covers (<i>Acacia Mellifera</i>) Swarthaak</p> 
2	 <p data-bbox="769 1563 1050 1617">Shallow lithosols</p>

3



4



5



6

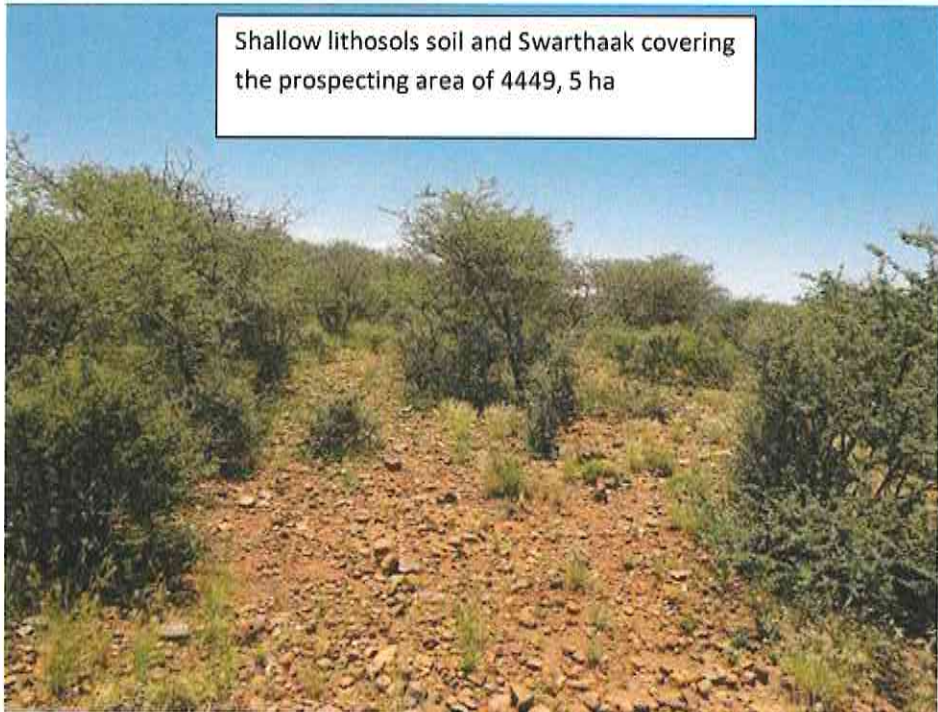


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8

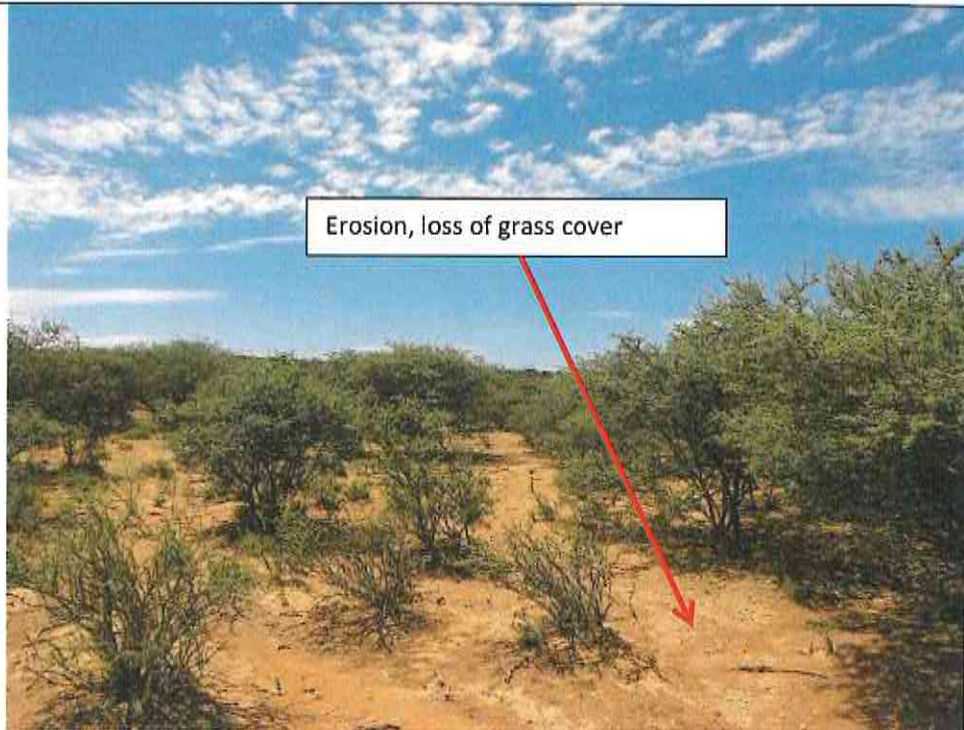
Shallow lithosols soil and Swarthaak covering the prospecting area of 4449, 5 ha



9



10



11



**Conservation:** Least threatened. Target 21%. None conserved in statutory conservation areas. About 4% has been cleared for cultivation (the highest proportion of any type in the Nama-Karoo) or irreversibly transformed by building of dams (Houwater, Kalkfontein and Smart Syndicate Dams). Areas of human settlements are increasing in the northeastern part of this vegetation type (Hoffman et al. 1999). Erosion is moderate (46.2%), very low (32%) and low (20%). ***Prosopis glandulosa*, regarded as one of the 12 agriculturally most important invasive alien plants in South Africa**, is widely distributed in this vegetation type (Hoffman et al. 1999). *Prosopis* occurs in generally isolated patches, with densities ranging from very scattered to medium (associated with the lower Vaal River drainage system and the confluence with the Orange River) to localised closed woodland on the western border of the unit with Bushmanland Basin Shrubland. **Remark** This Karoo unit is found on floristic and ecological gradients between the Nama-Karoo, arid Kalahari savanna and arid highveld grasslands. **References:** Acocks (1953, 1988), Werger (1980), Palmer (1990).

**Screening of environmental sensitivity of the proposed site (See Appendix 3 for full report):**

Furthermore according to the DEDACT's (Department of Economic Development, Environment, Conservation and Tourism's) screening tool the footprint of this application area, although only **small scale prospecting (0.6 ha disturbance (0.03%) by pits and trenches in total out of an application area of 4449.5 ha)**, are classified (by background reference to the whole farm) as per Table 5 below.

According to the **screening of environmental sensitivity of the proposed mine site (4449,5 ha)** it is indicated that **Terrestrial Biodiversity Theme** was classified as being VERY HIGH sensitive, this could be because of the close proximity of the Orange River. This prospecting site is only **(0.66 ha disturbance by pits and trenches (0.03 %) out of a total of an application area of 4449.5 ha)** and should be regarded as a brownfields site as the site has been disturbed by historic mining and agriculture activities and donga erosion. See the occurrence of invader plant species cover density in the surrounding

environment that is estimated at 15.1 -20%. During the site investigation no wild animals were found on site except Dorper sheep on the **4449.5 ha application area**, except the indication that the farm is being grazed by Dorper sheep at this stage. Therefore the **Animal Species Theme** is not of MEDIUM sensitivity. The site has been disturbed by mining activities in the past and it is likely that animals would not stay in such a habitat but rather move to other undisturbed areas on the farm.

**Less than 1% of the biome is conserved in formal areas.** The Prickly Pear (*Opuntia aurantiaca*) and Mesquite (*Prosopis glandulosa*) are the major **alien invader species**. Urbanization and agriculture are minimal, and irrigation is confined to the Orange River valley and some pans. **Most of the land is used for grazing, by sheep (for mutton, wool and pelts) and goats**, which can be commensurate with conservation. **However, under conditions of overgrazing, many indigenous species may proliferate**, including Threethorn: *Rhigozum trichotomum*, Bitterbos: *Chrysocoma ciliata* and Sweet Thorn: *Acacia karroo*, and many grasses and other palatable species may be lost. There are very few rare or Red Data Book plant species in the Nama Karoo Biome. Source: <http://pza.sanbi.org/vegetation/nama-karoo-biome>.

**Palaeontology Theme** was further classified as being VER HIGH sensitive. It is however not foreseen that there will be any such sites of the application area that the landowner may not be aware of that he would have come across item if there were any. **The prospecting project only focuses on (0.66 ha disturbance by pits and trenches (0.03%) in total out of an application area of 4449.5 ha) should be low to be of no real significance.** The prospecting manager will have to keep a look out for possible sightings and report it as soon as possible.

According to the screening of environmental sensitivity of the proposed site it is indicated that **Agricultural Theme** was classified as being MEDIUM sensitivity. The prospecting site is **only (0.66 ha disturbance by pits and trenches (0.03%) in total out of an application area of 4449.5 ha**, and should be regarded as a **brownfields site** as the site has been disturbed by historic mining and agriculture activities and donga erosion. Rehabilitation of the site will return the site to some grazing capability for Dorper sheep. **The majority of the farm still continues with agricultural activity (grazing for Dorper sheep) and is in no way hindered by the proposed activity and the environmental sensitivity for the (0.66 ha disturbance by pits and trenches (0.03%) in total out of an application area of 4449.5 ha) should be low to be of no real significance.** According to the Comprehensive Atlas Ver. 2.1 of the NDA the grazing capacity for the area is 31-40ha/LSU. **Land capability is described as Non-Arable.** According to the Comprehensive Atlas Ver 2.1 of the NDA **the entire application area should be regarded as degraded land.**

According to the screening of environmental sensitivity of the proposed site it is indicated that **Civil Aviation Theme** was classified as being MEDIUM sensitivity. **Giving the distance from the activities in relation to the application area and that the fact that no blasting will be done the impact will be zero and the environmental sensitivity should actually be described as low.**

**Table 5: DEDACT - Screening Report**

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			X	
Animal Species Theme			X	
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme			X	
Palaeontology Theme		X		
Plant Species Theme				X
Defence Theme				X
Terrestrial Biodiversity Theme	X			

**Climate:** Rainfall peaks in autumn (March). MAP ranges from about 190 mm in the west to 400 mm in the northeast. Mean maximum and minimum monthly temperatures for Britstown are 37.9°C and –3.6°C for January and July, respectively. Corresponding values are 37.1°C and –4.8°C for De Aar and 39.0°C and –2.3°C for Kareekloof (northwest of Strydenburg).

**Geology & Soil:** **Shales** of the Volksrust Formation and to a lesser extent the Prince Albert Formation (both of the Ecca Group) as well as Dwyka Group **diamictites** form the underlying geology. Jurassic Karoo Dolerite sills and sheets support this vegetation complex in places. Wide stretches of land are covered by superficial deposits including **calcretes** of the Kalahari Group. **Soils are variable from shallow to deep, red-yellow, apedal, freely drained soils to very shallow Glenrosa and Mispah forms**. Mainly Ae, Ag and Fc land types.

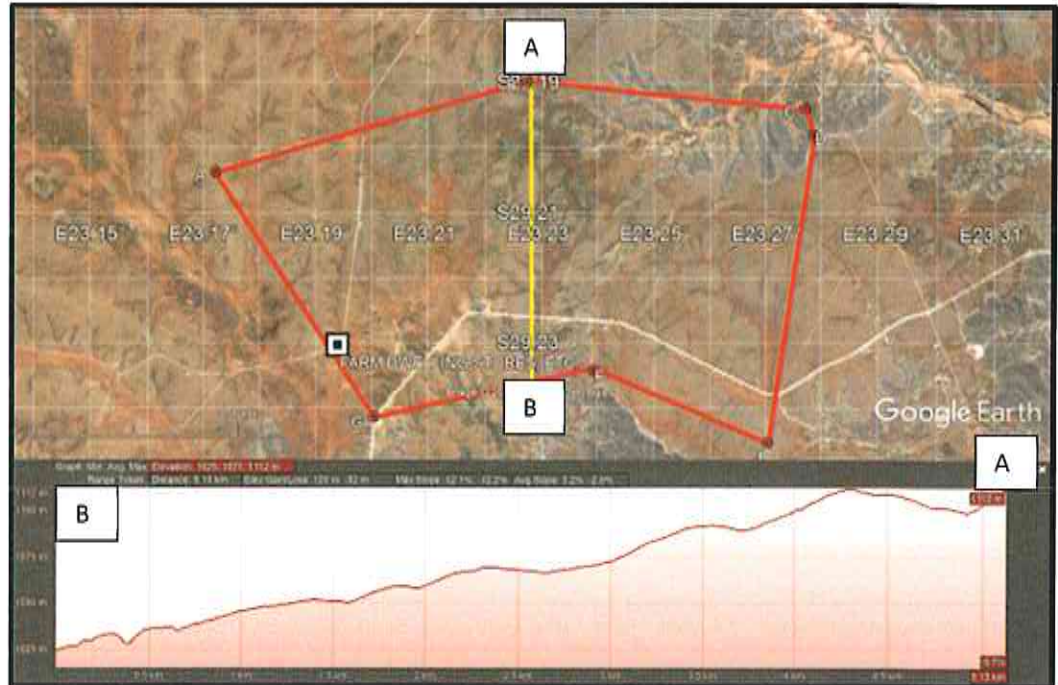


**Animal Life [Fauna]:** Not many species were directly observed but the presence of nesting sites in the area is an indication that this area is an acceptable habitat for shelter and food for avian species. The natural animal life occurring over the application area includes but is not restricted to, big animals like Kudu, small animals common in this area include: Jackal and Meer cats. Farming focuses on **Dorper sheep production** that feeds on the leaves of Acacia Mellifera (Swarthaak) and grasses.





**Topography:** The site has one terrain type, which is characterized as **slightly irregular undulating lowland** (Topographical Map of S.A. 1983), covered with mainly *Acacia mellifera* (Swarthaak) and grasses. The slope varies around 3.2 % that can be described gentle inclined. **The average elevation is between 1025 - 1112 m meters above sea level (masl)** over most of the prospecting area. The area is characterized by predominantly one-terrain unit that form part of the natural topography of the area. Most of the application area is partially under natural vegetation, with evidence of historic mining disturbance and eroded natural areas with little grass coverage.



**Surface Water:** This application area fall within the water management area of the Lower Orange (14) and secondary catchment area D71 and tertiary drainage region D71A (112 km<sup>2</sup>). There are 4 smaller tributary (intermittent dry water courses) flowing into the Orange River that cuts through the application area. **Drainage density can be described as low to medium of 0-2 km/km<sup>2</sup>**

It however seems that these water bodies only seem to carry water during peak rainfall seasons. Mr AC Vlok the landowner and one of the members of PG Vlok Trust have an existing authorization to abstract 40 000m<sup>3</sup> of water out of the Orange River for irrigation per year, see authorization attached as **Appendix 4**. This authorization will be converted to include mining in order to be used for mineral processing of the bulk sample as well, should it be required. River diversion is not applicable as all mining activities will be kept 100 meter horizontally away from any water body.

**Ground Water:** There are **boreholes on the application area used for stock watering** by the landowner. There is also windmills with associated a cement dam/reservoirs used for Dorper sheep watering. The applicant indicated that he is going to use a dry **prospecting method (during site visit)**, therefore only **potable water** is required intends to use water from these current boreholes. Mr AC Vlok the landowner and one of the members of PG Vlok Trust have an existing authorization to abstract 40 000m<sup>3</sup> of water out of the Orange River for irrigation per year, see authorization attached as **Appendix 4**. This authorization will be converted to include mining in order to be used for mineral processing of the bulk sample as well, should it be required.

**Air Quality:** The impact on air quality will only start with the prospecting in Phase 2 and phase 3, when test pits and bulk sampling will be done, where dust from excavating and from the roads will occur. This impact will be low and will be monitored and mitigated through wetting of the roads.

**Noise:** The impact of noise will only start with phase 2 test pits but these will be isolated and very far apart. During phase 3 when bulk sample commence the noise from the mining equipment will be generated more continuously. 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 observed, but this needs to be confirmed with the landowner. According to NEMA's Screening Tool/Report there are sensitivity features that need to be taken into consideration when prospecting over this area. The first being the occurrence of paleontology. It is recommended that a desktop study be done by an archaeologist to indicate the possibility of the above features and if there is strong possibility then a full on site investigation needs to be done. This will be included in the EIA/EMP. 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 any graveyard (if found during the operations) 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:** The potential sensitive landscapes are 4 smaller tributary (intermittent dry stream courses) flowing into the Orange River that cuts through the application area. These look to be dry runs, which probably only carry water during peak rainfall seasons. It is however recommended that all prospecting activities be kept 100 meter horizontally away from these water runs. Because if disturbed and the area does get a heavy rainfall event it can cause erosion and if the water is not contained in the natural watercourse it may cause damages to other landscape features.

**Visual Aspects:** These prospecting activities will only be visible to the landowner and neighbours. It is also not located near any main tourist route.

**Social:** The proposed activity will employ 9 people (prospecting project manager included). Various social amenities are available close to the operation. These include schools, hospitals, churches, recreation facilities as well as a Police Station at Douglas, which is located approximately 71 km northeast of the operation.

(b) Description of the current land uses.

The current land use is grazing over natural vegetation used by die land owner how is also the applicant.

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

There are not a lot of infrastructure over the application area, only fence lines, farm roads, farm dwelling with stores, wind mills (with cement dams (reservoirs)). There are further no structures of infrastructure over this property. See **Appendix 1(b)** for an indication of the proposed main listed activities and existing/proposed infrastructure and **Figure 5** – Google Earth Images for more detail of what the site looks like pre-prospecting. Access to the application area is gained via existing gravel roads from Douglas.

(d) Environmental and current land use map.

Current land use on the application area is grazing by Dorper sheep over natural veld. This is privately owned land (Applicant is the landowner). See **Appendix 1(C)** for more detail.

**v) Impacts and risks identified**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)[(h)] (g)(v)*

The proposed project is anticipated to impact on a range of biophysical and socio-economic aspects of the environment. The main purpose of the Scoping Report 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 6** on the next page.

Table 6: Impact significance identification matrix for – Waaikoek 392

PHASE	Components	A	B	C	D	E	F	G	H	I	J	K	L	M	N			
		ABIOTIC								BIOTIC			VISUAL				SOCIO-ECONOMIC	
		Geology	Topography	Soil	Land capability	Land use potential	Surface water	Ground water	Air quality	Noise	Vegetation	Wildlife	Sensitive landscapes	Visual impact	Archaeological & cultural sites	Socio-economic impacts	Affected parties	
1	Activity, Product or Service																	
	Demarcation of mine focuses area.			L	M	L						M		L				
2	Establishment (site preparation, vegetation clearance, topsoil removal and stockpiling) of proper access roads (upgrade existing road), site workshop & storage area (temporary containers), mineral processing plant conveyor, mobile screen and 1 x 16 feet washing pans, generator, ect.) Initial vegetation clearance, topsoil removal & stockpiling next to first opencast pit/ trench within the mine focus area.		M	H	H			M	H	H	H	H	L	L		L		M
3	Establishment of bunker diesel and oil/chemical storage facilities, chemical toilets.		M	M	H		M	M			M			L				
4	Provision of storage tanks for potable (drinking water) and process water (dust suppression).		H	H	H	H	L	M	M	H	H	H	M	L				
5	Provision of waste handling/disposal facilities (domestic & industrial waste bins).			L			L	L					L					
6	Fencing –off active prospecting site in as required in terms of the MHS-A. Ensure access control (gate), ect.				M							M		L				H+
7	Vegetation clearance, topsoil removal & stockpiling next to opencast pit/ trench within the mine focus area (0.5 ha of surface area disturbed at any given time).		M	H	H	M	L	L	L		H	L	L	L		M		H

**[PG VLOK TRUST -LANYON VALE 376 (NC30/5/11/12/12991PR)]**

PHASE	Components										L	M	N			
	A	B	C	D	E	F	F	G	H	I				J	K	SOCIO-ECONOMIC
	ABIOTIC										BIOTIC			VISUAL		
	Geology	Topography	Soil	Land capability	Land use potential	Surface water	Ground water	Air quality	Noise	Vegetation	Wildlife	Sensitive landscapes	Visual impact	Archaeological & cultural sites	Socio-economic impacts	Affected parties
8	<b>Activity, Product or Service</b>															
	Mechanically excavating overburden with an excavator and stockpile separately from topsoil dump. Remove gravel with excavator and stockpile on side of trench/ripr to load onto trucks.															
9	Transport with trucks to mineral processing plant (conveyor, screen & 16 feet washing pans) for processing and sorting of concentrate at set intervals.															
	The wet waste tailings coming out of the pans will be pumped to open excavations & pond clean, from where excess water is recycled															
10	Backfilling of excavations (as part of concurrent rehabilitation) (the coarse gravel (rough) sifted from the pans will be transported back by front-end-loaders towards all open pits for backfilling.															
	Final backfilling of all voids/intercept pits and laying of overburden dumps (excess material as the result of swell factor).															
11	Comparison of backfilled sites															
12	Replace and spread all topsoil evenly over backfilled sites.															
13	Establishment of vegetation cover.															
14	Removal of all temporary & demolition of all permanent structures (Section 44 of the MPRDA).															
15	Rehabilitation of all access roads, compound areas, etc.															
16																

vi) **Methodology used in determining the significance of environmental impacts**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)[(h)] (g)(vi)*

**I. Introduction:**

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

**IMPACT 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, abluion facility, water tanks, diesel tanks and other temporary buildings
3. Prospecting equipment ( conveyor, drum screen, washing pans, generator)
4. Stockpiles
5. Overburden dumps
6. Opencast pits & 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(b) for location)**

Environmental aspect	Affected		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			X
9. GROUND WATER	X		
10. AIR QUALITY	X		
11. NOISE	X		
12. SENSITIVE LANDSCAPES			X
13. VISUAL ASPECTS	X		
14. SOCIO ECONOMICS	X		
15. INTERESTED & AFFECTED	X		
16. ARCHAEOLOGICAL			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 ± 0.03 % of the total area applied for. And it is further not foreseen that prospecting activities would disturbed an area of not more than 0.66 ha (total for 150 pits & 10 trenches) 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*

Probability of	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*

Extend of	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 Hay area.
Regional	Direct and indirect impacts affecting environmental elements within Northern Cape Province.
National	Direct and indirect impacts affecting environmental elements on a national level.
Global	Direct and indirect impacts affecting environmental elements on a global level.

*Explanation of **duration** of impact*

Duration of	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 remedial 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, mitigation 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.
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iii. Assessment of the nature, extent, duration, probability and significance of the potential environmental, social and cultural impacts of the proposed prospecting operation, including the cumulative environmental impacts.

**Table 7: determining the significance of environmental impacts**

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>1. GEOLOGY</b>					
Nature of the impact	The geology will be destroyed during the opencast prospecting operation. During operation which will be for the next 4 years, the mineral resource (Diamonds (Alluvial Diamonds, Diamonds in Kimberlite) will be extracted. Waste rock material/overburden material is disposed off/backfilled in existing excavations as part of the prospecting process.				
Extent	Site				Activity causing the impact
Duration	Permanent				An opencast prospecting method will be used to extract bulk samples. Therefore the original geology will be totally destroyed.
Probability	Definite				
Significance	High				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>2. TOPOGRAPHY</b>					
Nature of the impact	<p>* <b>Change in landform :</b>                      * The prospecting site is situated on: level plains with some relief.                      * <b>Disturbance of the surface drainage:</b>                      The prospecting of the (Alluvial Diamonds, Diamonds in Kimberlite) deposits will result in the creation of trenches (10 m x 60 m x ±5 m or less), that act as depressions in the environment that captures run-off. Prospecting activities will be concentrated as indicated on <b>Figure 4</b> on the application area (approximately 5 m depth).                      The surface drainage is already disturbed. Normal surface drainage will be disturbed at a given point.                      Run-off if any will be diverted away from the specific site.</p>				
Extent	Site				Activity causing the impact
Duration	Very long to Permanent				Bulk sampling trough trenches, etc.
Probability	Definite				
Significance	High				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>3. SOIL</b>					
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 mixed and the structure may be disturbed.
Probability	High				
Significance	Moderate				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X		



**[PG VLOK TRUST –LANYON VALE 376 (NC30/5/1/1/2/12991PR)]**

3. SOIL		IMPACTS	CUMULATIVE IMPACTS	
Nature of the impact	The establishment, construction, operation and eventually rehabilitation (demolition) of listed structures such as the access roads, stockpiles /tailings dumps, cause compaction of soil. Some areas already disturbed thus no topsoil. All prospecting activities will be concentrated on the identified prospecting focus area where (Alluvial Diamonds, Diamonds in Kimberlite) deposits could be found. In the same time a certain surface area is therefore alienated. The active prospecting surface area (alienated) would be restricted within the (± 0.060 ha for pits & 0.6 ha for trenches) at any given time (in relation to area of application of the prospecting right of 4449.5 hectares) for the next 4 years.			
Extent	Site		Activity causing the impact	
Duration	Long		Site preparation for additional prospecting sites and the construction, operation of listed infrastructure.	
Probability	High			
Significance	Moderate			
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure
		X	X	X

ASPECT		IMPACTS	CUMULATIVE IMPACTS		
3. SOIL					
Nature of the impact	Soil erosion: Due to the fact that certain surface areas would become compacted and this would lead to lesser infiltration of rainwater and more run-off that could cause erosion on bare disturbed surfaces. Erosion would always be possible until such time a vegetation cover is provided during rehabilitation phase.				
Extent	Site		Activity causing the impact		
Duration	Very short		When removing topsoil during site preparation, little storm water control structures are in place. If a severe storm hits the area, it may lead to erosion on site. Topsoil stockpiles may be prone to erosion due to lack of vegetation cover. Water control structures may fail or severe rainstorms may cause excessive run-off. Surface compaction due to activities taking place.		
Probability	Very low				
Significance	Low				
Phase responsible for the impact	Phase 1	Phase 2		Phase 3	Closure
		X		X	X

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

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

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

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>4.LAND CAPABILITY</b>					
Nature of the impact	<p><b>Temporary loss of land capability to support grazing.</b> The small area (<math>\pm</math> 0.060 ha for pits &amp; 0.6ha for trenches) where the active prospecting activities occur (pits, trenches, tailings dumps, stock piles, prospecting equipment) etc. will thus be temporary alienated, until the area is rehabilitated.</p> <p>All trenches would be rehabilitated as part of the prospecting process during which trenches are back-filled.</p> <p>If the old areas be re-worked this will make more land available for grazing. The rest of the application area will still be used by the landowner as agricultural land.</p>				
Extent	Site				Activity causing the impact
Duration	Long				Site preparation for additional prospecting sites and the construction, operation of listed infrastructure, the land capability of the active prospecting area will be totally destroyed.
Probability	Definite				
Significance	Moderate				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

ASPECT	IMPACTS	CUMULATIVE IMPACTS							
<b>5. LAND USE</b>									
Nature of the impact	This is a new prospecting operation and therefore will lose its land use to support grazing on a certain portion of the 4449.5 hectares during the next 4 years. If the old areas be re-worked this will make more land available for grazing. Only a small portions of land (0.66 ha at a time) would be affected by the prospecting operation relation to the total prospecting right application area of 4449.5 hectares. All trenches would be rehabilitated as part of the prospecting process during which excavations are back-filled.								
Extent	Site	Activity causing the impact							
Duration	Long to permanent	Site preparation for prospecting and the construction, operation of listed infrastructure							
Probability	Definite								
Significance	Moderate								
Phase responsible for the impact	<table border="1"> <thead> <tr> <th>Phase 1</th> <th>Phase 2</th> <th>Phase 3</th> <th>Closure</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>		Phase 1	Phase 2	Phase 3	Closure		X	X
Phase 1	Phase 2	Phase 3	Closure						
	X	X							

ASPECT	IMPACTS	CUMULATIVE IMPACTS							
<b>6. VEGETATION</b>									
Nature of the impact	Vegetation clearance, disturbance and trampling. Destruction of habitats for vegetation. Due to a disturbed ecosystem, bare ground and spreading of exotics can follow.								
Extent	Site	Activity causing the impact							
Duration	Long	The site preparation for new sites, construction of listed infrastructure will cause destruction of habitats for vegetation. Due to a disturbed ecosystem, bare ground and invasion of exotics could further spread.							
Probability	Definite								
Significance	High								
Phase responsible for the impact	<table border="1"> <thead> <tr> <th>Phase 1</th> <th>Phase 2</th> <th>Phase 3</th> <th>Closure</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>		Phase 1	Phase 2	Phase 3	Closure		X	X
Phase 1	Phase 2	Phase 3	Closure						
	X	X							

ASPECT	IMPACTS	CUMULATIVE IMPACTS							
<b>6. VEGETATION</b>									
Nature of the impact	Habitat change, loss of species, spread of alien and invasive species.								
Extent	Site	Activity causing the impact							
Duration	Permanent	The change in the current habitat will be mitigated during final rehabilitation.							
Probability	High								
Significance	Moderate								
Phase responsible for the impact	<table border="1"> <thead> <tr> <th>Phase 1</th> <th>Phase 2</th> <th>Phase 3</th> <th>Closure</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>		Phase 1	Phase 2	Phase 3	Closure		X	X
Phase 1	Phase 2	Phase 3	Closure						
	X	X							

ASPECT	IMPACTS	CUMULATIVE IMPACTS							
<b>6. VEGETATION</b>									
Nature of the impact	Dust coverage of plants.	None							
Extent	Site	Activity causing the impact							
Duration	Long	Heavy trucks and other vehicles on dirt roads, stockpiling, dumping of tailings are mainly responsible for this impact.							
Probability	High								
Significance	Low								
Phase responsible for the impact	<table border="1"> <thead> <tr> <th>Phase 1</th> <th>Phase 2</th> <th>Phase 3</th> <th>Closure</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>		Phase 1	Phase 2	Phase 3	Closure		X	X
Phase 1	Phase 2	Phase 3	Closure						
	X	X							

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

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

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

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>8. SURFACE WATER</b>					
Nature of the impact	Increased silt load. Clearing topsoil for footprint areas can increase infiltration rates of water to the groundwater system and decrease buffering capacity of soils to absorb contaminants from spills on surface. This can increase the risk of contamination of the groundwater system (increases aquifer vulnerability).				
Extent	Local				Activity causing the impact
Duration	Short				The clearance of vegetation and the traffic on access roads will all contribute to an increase in the silt load on the prospecting area.
Probability	Moderate				
Significance	Moderate				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>8. SURFACE WATER</b>					
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 & puddle 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 dry-water course area, prospecting sections it could become silted-u				
Extent	Local				Activity causing the impact
Duration	Short				"Dirty / Clean" water systems at facilities like the overburden dumps, roads, trenches, etc. may impact on the quality of the surface water. The water should be contained in the surface runoff control measures provided therefore.
Probability	Moderate				
Significance	High				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>8. SURFACE WATER</b>					
Nature of the impact	Change in surface water quantity: <b>Water management area (14) : Lower Orange</b> The mine falls under the primary drainage region D71 and in quaternary sub-catchment D71A. Notwithstanding the above-mentioned facts, it is not expected that prospecting operations will have any effect on the boundaries or the general water flow of the catchment. There are 4 non-perennial streams running through the application area, which are tributaries of the Orange River. Standing water in trenches could as the result of rain/ surface run-off ending up in shallow depressions. Orange River water will be abstracted for processing of their bulk sample.				
Extent	Site				Activity causing the impact
Duration	Long				It is an operational objective to contain or divert all surface run-offs from the active prospecting trenches area mainly due to pollution (sediment) potential. This will reduce the run-off quantity, although small in comparison with the drainage area in total.
Probability	High				
Significance	High				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X		

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>9. GROUND WATER</b>					
Nature of the impact	Reduction of groundwater quality Prospecting activities are not likely to impact on local ground-water quality. No chemicals area used during the prospecting process. Handling of waste and transport of building material can cause various types of spills (domestic waste, pit latrines, hydrocarbons) which can infiltrate and contaminate of the groundwater system.				
Extent	Site				Activity causing the impact
Duration	Long				
Probability	Definite				
Significance	High				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

9. GROUND WATER				
Nature of the impact	Even though abstraction is likely to have a minimal effect on the surrounding groundwater users, the groundwater levels are expected to continue current trends. Groundwater will be abstracted for potable water only. The volume of water needed is small in comparison to other water use and will have a small impact on the surrounding aquifer.			
Extent	Site			Activity causing the impact
Duration	Long			Opencast prospecting operation.
Probability	Low			
Significance	High			
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure
		X	X	X

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>10. AIR QUALITY</b>					
Nature of the impact	Dust 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) and on gravel/dirt/farm roads. The processing of the gravel is a dry (According to applicant) process and therefore minimum dust is generated.				
Extent	Site			Activity causing the impact	
Duration	Long			Initial construction work with regard to infrastructure (roads) that involves earth moving equipment. During the phase 2 & 3, dust could be generated as indicated during prospecting.	
Probability	Moderate				
Significance	Moderate				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>11. NOISE</b>					
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 impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>12. ARCHAEOLOGICAL AND CULTURAL SITES</b>					
Nature of the impact	The terrain is not archaeologically vulnerable. It is unlikely that the proposed development will result in any significant archaeological impact at the site. No graves were identified on site.				
Extent	Site				Activity causing the impact
Duration	Permanent				
Probability	Definite				
Significance	High				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X			

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>13. SENSITIVE LANDSCAPE</b>					
Nature of the impact	No sensitive landscapes identified.				
Extent	Not applicable				Activity causing the impact
Duration	Not applicable				
Probability	Not applicable				
Significance	Not applicable				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>14. VISUAL ASPECTS</b>					
Nature of the impact	Prospecting will only be visible to the neighbours living there. The operation is not visible to from any tourist road.				
Extent	Site				Activity causing the impact
Duration	Long				Diamond prospecting operation.
Probability	Definite				
Significance	Low				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>15. SOCIO ECONOMICS</b>					
Nature of the impact	Increase in Socio – economic activity at local level. The project in itself would ensure that approximately 9 workers would be assured of a job for some time. Job creation plays a major role in increasing the economic wellbeing of employees and their dependants in the Hay district. Once all prospecting operations have ceased it would definitely have a negative impact.				The increase in socio-economic activity will add to the current growth and development in Hay already created by industry and prospecting.
Extent	Local				Activity causing the impact
Duration	Long				Additional employment opportunities created.
Probability	Definite				
Significance	High				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>15. SOCIO ECONOMICS</b>					
Nature of the impact	The main impact on the landowners is visual impact and the small area of 0.6 ha that will not be available for agricultural activities at any given time for 4 years.				The economic benefits in terms of investment and the delivery of services in the Northern Cape 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 impact	Phase 1	Phase 2	Phase 3	Closure	
		X	X	X	

ASPECT	IMPACTS				CUMULATIVE IMPACTS
<b>16. INTERESTED &amp; AFFECTED PARTIES</b>					
Nature of the impact	Impact of activities on I&AP's Temporary loss of utilization of the prospecting focus areas for agricultural purposes (grazing for Dorper sheep) The long-term benefits far out-weight the current benefits from the current use. No negative impact is expected that could be appropriately mitigated, such as the eventual rehabilitation of the excavations.				
Extent	Local				Activity causing the impact
Duration	Long				
Probability	High				
Significance	High				
Phase responsible for the impact	Phase 1	Phase 2	Phase 3	Closure	
		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.**

*In term of NEMA – EIA Regulations No. 328 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)[(h)] (g)(vii)*

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.

However, for this specific project, no alternatives have been investigated, with the exception of the no-go alternative. The reason for this being that the prospecting right is being applied for the sole purpose of prospecting (Alluvial Diamonds, Diamonds in Kimberlite) gravels. The no-go option entails the continuation of the current land use (grazing) 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**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(h) (g)(viii)*

Her were no issues raised by any interested or affected parties or any one that was consulted. Up till now no comments were received from the State Departments, if comments still be received it will be addressed in the EIA. The mitigation measures and technical management action plans which address potential impacts are discussed below.

Environmental Component	Geology
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<ul style="list-style-type: none"> <li>• No mitigation exists except to backfill the excavations with the rock waste material and fine tailings.</li> <li>• 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.</li> <li>• Planned, systematic and thorough prospecting of the mineral resource (Alluvial Diamonds, Diamonds in Kimberlite) should take place.</li> <li>• Optimal utilization of the mineral resource should take place within the boundaries of the prospecting terrain.</li> <li>• 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.</li> <li>• Care must be taken that the removal of (Alluvial Diamonds, Diamonds in Kimberlite) deposits by means of earthmoving equipment is restricted to what is really necessary to achieve the objective.</li> </ul>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<ul style="list-style-type: none"> <li>• All trenches should be back-filled with waste tailings material and eventually overburden material, covered with a shallow layer of topsoil (if available).</li> <li>• 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.</li> <li>• 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.</li> </ul> <p>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.</p> <p>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).</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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.	

<b>Environmental Component</b>	<b>Soil (topsoil &amp; access roads)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Handling of topsoil as a natural resource:</b> Any future expansion of the trenches or construction of infrastructure should be preceded by the removal of <u>all available topsoil</u>. The surface of any new areas to be disturbed must be kept to a minimum. <u>All available topsoil/overburden material should be removed and stockpiled for rehabilitation purposes.</u></p> <p><b>Access roads, etc.:</b> 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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The topsoil removed in the site preparation process should be replaced during the rehabilitation exercise.	

<b>Environmental Component</b>	<b>Soil (soil compaction)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Soil compaction:</b> The prospecting operation should only be restricted to what is really required (demarcated area of exploitation) within the fenced-off area. <b>Access roads</b> towards the sites would be restricted only to the roads (existing farm roads &amp; roads established in consultation with the surface owner (also applicant)). No land would be disturbed unnecessarily. Prospecting &amp; 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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Alleviation of compaction of soils would be done during rehabilitation of the prospecting terrain, including roads.	

<b>Environmental Component</b>	<b>Soil (Soil erosion)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Soil Erosion:</b> To take preventive steps against land disturbance like erosion. Implement and maintain cut-off trenches/berms to prevent erosion.</p> <p><b>Re-vegetation of exposed soil surfaces</b> (man-made surfaces on tailings 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 prevention measure.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No soil erosion must be visible and no potential for soil erosion must be present at closure.	

<b>Environmental Component</b>	<b>Soil (Soil contamination)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Potential for soil contamination:</b>                  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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No soil contamination must be visible or known before closure can be given.	

<b>Environmental Component</b>	<b>Soil (Soil structure)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Change in Soil structure:</b>                  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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No compaction of any roads or any other area must be present during closure. If the soil structure is disturbed mitigation measures e.g. the use of organic material, lime and fertilizers must be implemented to restore the soil structure.	

<b>Environmental Component</b>	<b>Soil (Soil fertility)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Soil fertility:</b>                  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 topsoil is analyzed in a laboratory. The type of fertilizer would depend on a soil analyses and fertilizer recommendation.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The soil must be fertile enough to sustain vegetation.	
<b>Environmental Component</b>	<b>Land Capability</b>

<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>
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.
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>
To be included in EMP/EIA.
<b>Closure Objective</b>
Rehabilitated to the state that it is suitable for the predetermined and agreed land capability.

Environmental Component	Land Use
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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 (shallow lithosols, like Mispah and Glenrosa forms). 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.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The opencast section requires the land to be totally disturbed. The replacement of tailings material, overburden and topsoil would ensure that the land is able to support some grazing.	

Environmental Component	Vegetation
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
No mitigation exists except to <b>replace the vegetation by reseeding of grasses and natural growth.</b> 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.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
Habitat change, loss of species, spread of alien and invasive species: No mitigation exists except to replace the vegetation by reseeded 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. <b>Develop and implement an invasive and alien control programme to control the spread of weeds and other invasive species.</b> Eradicate exotic weeds and invader species (like <i>Prosopis glandulosa</i> )( <i>heuning prosopus</i> ) 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. An invasive and alien control programme must be implemented by the mine.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No invasive and alien species must be present after closure. A post-closure control program must also be implemented.	

Environmental Component	Vegetation
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No excessive dust must be present during the normal growth season after closure.	

Environmental Component	Wildlife (habitat)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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. <b>Restoration of habitat:</b> Ensure the rehabilitation plan is implemented.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<b>Injury and death to wildlife:</b> 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.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<b>Change in surface water quality:</b> <u>Storm water control measures must be implemented to divert clean water away from the active prospecting site and keep contaminated water contained.</u> 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. <u>All prospecting activities must be kept 100 meters horizontally away from any surface water body.</u>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The post closure water run-off may in no circumstance impact negatively on the water quality.	

Environmental Component	Surface Water (quantity)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Change in surface water quantity:</b> 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.</p> <p>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 <b>ensure some normal drainage</b>. 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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Reduction of groundwater quality:</b> Storm water control measures must be implemented to divert clean water away from the site and keep (silt) contaminated water contained.</p> <p><b>Vehicles to be inspected</b> 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.</p> <p><b>Storage of fuel and oil</b> should be done according to best practices, <b>within a bunded area</b> and in containers of which the integrity is sound.</p> <p>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).</p> <p>An <b>incidence register</b> for this purpose must be kept.</p> <p><b>Drip trays</b> must be available and used where emergency repairs is done.</p> <p>All waste must be stored according to best practices and disposed at an authorized waste disposal facility.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Post water quality need to indicate a positive trend/improvement.	

Environmental Component	Ground Water (quantity)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Reduction of groundwater quantity, lowering of groundwater level:</b> Water levels in the boreholes that are used for prospecting activities should be recorded monthly.</p> <p>Water volumes should be recorded continuously to ensure compliance with the water use authorization for abstraction.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Post water quality need to indicate a positive trend/improvement.	

Environmental Component	Air Quality
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Dust:</b> The prospecting method will serve as mitigation measure because prospecting will limit dust to the active prospecting area (area where the excavator and the trucks 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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p>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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>No graves on site.</b> The area are however identify as being high sensitive. 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. All excavator operators must be sensitized as to identify and report any occurrence of such sites of artefacts.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No site of archaeological importance should be disturbed or damaged until the necessary permit from SAHRA has been issued.	



<b>Environmental Component</b>	<b>Sensitive Landscapes</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
The stream area of the 4 tributaries must maintain un-scaled and all prospecting activities must be kept 100 meters horizontally away from them.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	

<b>Environmental Component</b>	<b>Visual Aspects</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No residual visual impacts will remain after closure. The terrain should blend in with the surrounding landscape.	

<b>Environmental Component</b>	<b>Socio-Economics</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
There will be a very small increase in Socio – economic activity at local level, because of the size of this prospecting activity.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The economic development must deliver a multiplier effect that will contribute to the local economy long after closure.	

<b>Environmental Component</b>	<b>Interested and Affected Parties</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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) ( <i>Permission of Inspector of Mines should be obtained.</i> )	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Not to be an economic, social or environmental liability to the local community or the state now or in the future. The company will ensure that the interest of all interested and affected parties will be considered.	

**ix) The outcome of the site selection Matrix. Final Site Layout Plan**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)(h) (g)(ix)*

Please see **Appendix 1(b1) & 1(b2)** for more detail.

**x) Motivation where no alternative sites were considered**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)(h) (g)(x)*

**Alternative is not applicable.** The current land use is AGRICULTURE (grazing for Dorper sheep, etc.) that will continue on the farm, except in areas where active prospecting (fenced-off) is taking place. The option to explore the possibility for prospecting is already in itself an alternative land use. The applicant, PG VLOK TRUST is not interested in any other alternative land use over this land aside for exploration of the said minerals, or any other activity, or method use other than prospecting in the conversional way, which is the most cost effective.

Please note that no additional infrastructure will be established, and therefore no alternatives for the location of infrastructure were identified.

**xi) Statement motivating the preferred site.**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)(h) (g)(xi)*

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 the mining phase is reached. The feasibility of prospecting the diamond material from an environmental, social and economic perspective also plays a role.

**(i) Plan of study for the Environmental Impact Assessment process**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)(i)(h)(a)*

**i. Description of alternatives to be considered including the option of not going ahead with the activity**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)(i)(h)(a)(i)*

**Alternative is not applicable.** For this specific project, no alternatives have been investigated. The activities included in this application are determined by the location of the mineral reserves in the study area, and the proposed prospecting method to be employed as was assessed. The current land use is agricultural and is being utilized as grazing at present by the landowner (also the applicant).

The option to explore the possibility for prospecting is already in itself an alternative land use. The applicant,

PG VLOK TRUST is not interested in any other alternative land use over this land aside of diamonds exploration, or any other activity, or method use other than prospecting for diamonds in the conversional way, which is the most cost effective.

The No-Go option entails the continuation the current land use (grazing) on the application area without exploiting the mineral reserves. The prospecting activities will contribute towards the achievement of providing employment opportunities for members of the surrounding communities, thus aiding socio-economic development. Should the project therefore not be authorized to proceed, the current employment opportunities will be terminated. Therefore, the No-Go alternative is not a feasible option in this case, as it suggests that the mineral reserves should not be exploited and current

employment opportunities should not be prolonged.

Alternative is not applicable for the application area. The current land use is agricultural and is being utilized as mainly natural grazing by the landowner (also the applicant).

ii. **Description of the aspects to be assessed as part of the environmental impact assessment process**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(l)(h)(a)(ii)*

The aspects that will be assessed as part of the proposed project and its area include:

- Geology
- Soil Erosion
- Rehabilitation of previously disturbed areas
- Fauna [Wildlife/Wildlife habitat destruction]
- Changes in surface water quality
- Dust
- Noise
- Archaeological/Cultural Sites

**Geology:**

(Alluvial Diamonds, Diamonds in Kimberlite) deposits will be destroyed during the opencast prospecting operation.

During operation which will be for the next 4 years, the mineral resource (Alluvial Diamonds, Diamonds in Kimberlite) will be extracted from deposits. Waste rock material/overburden material is disposed off/backfilled in excavations as part of the backfilling process.

**Soil erosion:**

Due to the fact that certain surface areas would become compacted and this would lead to lesser infiltration of rainwater and more run-off that could cause erosion on bare disturbed surfaces. Erosion would always be possible until such time a vegetation cover is provided during rehabilitation phase. Temporary loss of land capability to support grazing. The small area (0.66 ha) where the active prospecting activities occur (trenches, tailings dumps, stock piles, prospecting equipment) etc. will thus be temporary alienated, until the area is rehabilitated. All trenches would be rehabilitated as part of the prospecting process during which trenches are back-filled. **The rest of the application area will still be used by the landowner (also the applicant) as agricultural land.**

**Rehabilitation:**

This is a new prospecting operation and therefore will lose its land use to support grazing on a certain small portion of the **4449.5 hectares** during the next 4 years. Only a small portions of land (0.66 ha at a time) would be affected by the prospecting operation relation to the total prospecting right application area of 4449.5 hectares. All trenches would be rehabilitated as part of the prospecting process during which excavations are back-filled.

**Wildlife or wildlife habitat destruction/change / disturbance:**

Increase silt load. Clearing topsoil for footprint areas can increase infiltration rates of water to the groundwater system and decrease buffering capacity of soils to absorb contaminants from spills on surface. This can increase the risk of contamination of the groundwater system (increases aquifer vulnerability).

**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 dry-water course area, prospecting sections it could become silted-up.

**Dust:**

Dust 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) and on gravel/dirt/farm roads. The processing of the gravel is a wet process and therefore minimum dust is generated.

**Noise:**

Dust 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.

**Archaeological/Cultural Sites:**

**The terrain is not archaeologically vulnerable.** It is unlikely that the proposed development will result in any significant archaeological impact at the site. No graves were identified on site.

iii. Description of aspects to be assessed by specialists

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(l)(h)(a)(iii)*

As this is only a prospecting application and no sensitive areas or heritage areas of significance were noted on the application area there will be **no specialist studies**. All impacts noted will be mitigated.

iv. Proposed method of assessing the environmental aspects including the proposed method of assessing alternatives

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(l)(h)(a)(iv)*

A thorough foot survey and site inspection was done by the EAP and further visit will be done before compiling the EIA. Each aspect was then assessed individually with the 24 year experience of the EAP.

v. The proposed method of assessing duration significance

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(l)(h)(a)(v)*

The assessing of the duration is done on hand of the different phases as described in the Prospecting Works Program (PWP) which is also described under **Point ii) h)**. The significance is assessed from experience and from the actual situation on the specific site. Please see **Point vi)** for detail.

vi. The stages at which the competent authority will be consulted

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)(i)(h)(a)(vi)*

Consultation with all competent authorities will be done. The Scoping Report will be send to them from the office of the EAP.

vii. Particulars of the public participation process with regard to the Impact Assessment process that will be conducted

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)(i)(h)(a)(vii)*

1. Steps to be taken to notify interested and affected parties.  
The landowner, as well as the competent authorities will be consulted. Please see **Table 3** for more detail on public participation process.
2. Details of the engagement process to be followed.  
**The process as described by NEMA for Environmental Authorization was followed.** See **Table 3** below for the identification of Interested and Affected Parties to be consulted with. **The landowners (PG Vlok Trust) and the direct neighbours** was consulted personally and through written letters that will be given to them. A **site notice** was placed at the entrance to the application area. 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 published in the DFA Newspaper of 4<sup>th</sup> February 2022**, response is also awaited. 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. The Scoping Report was send to all relevant State Departments for evaluation. No comments were received.
3. Description of the information to be provided to Interested and Affected Parties.  
A copy of the map, and Prospecting Works Programme and draft Scoping Report was handed to the neighbours and landowners. A copy of the Scoping Report was send to the State Departments.

viii. Description of the tasks that will be undertaken during the environmental impact assessment process

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix2 – 2. (1)(i)(h)(a)(viii)*

Site inspection by foot survey, discussions with applicant and landowner as well as discussions with competent authorities where necessary. Completion of the EIA template.

- ix. Measures to avoid, reverse, mitigate, or manage identified impacts and to determine the extent of the residual risks that need to be managed and monitored.

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(i)(h)(a)(ix)*

This will be kept in mind with the site inspection where each impact will again be evaluated and the mitigation and management thereof will be confirmed on site. The risk of each impact will be evaluated and if any residual risks the management thereof.

Environmental Component	Geology
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<ul style="list-style-type: none"> <li>• No mitigation exists except to backfill the excavations with the rock waste material and fine tailings.</li> <li>• 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.</li> <li>• Planned, systematic and thorough prospecting of the mineral resource (Alluvial Diamonds, Diamonds in Kimberlite) should take place.</li> <li>• Optimal utilization of the mineral resource should take place within the boundaries of the prospecting terrain.</li> <li>• 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 mining method until such level is reach / cut-off point is reach where rehabilitation could begin.</li> <li>• Care must be taken that the removal of (Alluvial Diamonds, Diamonds in Kimberlite) deposits by means of earthmoving equipment is restricted to what is really necessary to achieve the objective.</li> </ul>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<ul style="list-style-type: none"> <li>• <b>All trenches should be back-filled</b> with waste tailings material and eventually overburden material, covered with a shallow layer of topsoil (if available).</li> <li>• <b>Access</b> to all active bulk sampling excavation areas should be <b>controlled</b>. 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.</li> <li>• <b>Surface run-off control</b> 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.</li> </ul> <p>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.</p> <p>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).</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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.	

<b>Environmental Component</b>	<b>Soil (topsoil &amp; access roads)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Handling of topsoil as a natural resource:</b>                  Any future expansion of the trenches or construction of infrastructure should be preceded by the removal of <u>all available topsoil (shallow Lithosols)</u>.                  The surface of any new areas to be disturbed must be kept to a minimum. <u>All available topsoil/overburden material should be removed and stockpiled for rehabilitation purposes.</u></p> <p><b>Access roads, etc:</b>                  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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The topsoil removed in the site preparation process should be replaced during the rehabilitation exercise.	

<b>Environmental Component</b>	<b>Soil (soil compaction)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Soil compaction:</b>                  The prospecting operation should only be restricted to what is really required (demarcated area of exploitation) within the fenced-off area. <b>Access roads</b> towards the sites would be restricted only to the roads (existing farm roads &amp; roads established in consultation with the surface owner). No land would be disturbed unnecessarily.                  Prospecting &amp; 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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Alleviation of compaction of soils would be done during rehabilitation of the prospecting terrain, including roads.	

<b>Environmental Component</b>	<b>Soil (Soil erosion)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Soil Erosion:</b>                  To take preventive steps against land disturbance like erosion. Implement and maintain cut-off trenches/berms to prevent erosion.  <b>Re-vegetation of exposed soil surfaces</b> (man-made surfaces on tailings 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 prevention measure.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No soil erosion must be visible and no potential for soil erosion must be present at closure.	

Environmental Component	Soil (Soil contamination)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Potential for soil contamination:</b>                      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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No soil contamination must be visible or known before closure can be given.	

Environmental Component	Soil (Soil structure)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Change in Soil structure:</b>                      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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No compaction of any roads or any other area must be present during closure. If the soil structure is disturbed mitigation measures e.g. the use of organic material, lime and fertilizers must be implemented to restore the soil structure.	

Environmental Component	Soil (Soil fertility)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Soil fertility:</b>                      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 topsoil is analyzed in a laboratory. The type of fertilizer would depend on a soil analyses and fertilizer recommendation.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The soil must be fertile enough to sustain vegetation.	



Environmental Component	Land Capability
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p>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 (also the applicant).</p> <p>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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Rehabilitated to the state that it is suitable for the predetermined and agreed land capability.	

Environmental Component	Land Use
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p>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.</p> <p>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 (also the applicant).</p> <p>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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The opencast section requires the land to be totally disturbed. The replacement of tailings material, overburden and topsoil would ensure that the land is able to support some grazing.	

Environmental Component	Vegetation
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p>No mitigation exists except to replace the vegetation by reseeding of grasses and natural growth.</p> <p>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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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. <b>Develop and implement an invasive and alien control programme to control the spread of weeds and other invasive species.</b> Eradicate exotic weeds and invader species if it (like <i>Prosopis glandulosa</i> (heuningprosopis) 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. An invasive and alien control programme must be implemented by the mine.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No invasive and alien species must be present after closure. A post-closure control program must also be implemented.	

Environmental Component	Vegetation
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No excessive dust must be present during the normal growth season after closure.	

Environmental Component	Wildlife (habitat)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
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. <b>Restoration of habitat:</b> Ensure the rehabilitation plan is implemented.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The animal life habitat must be restored after decommissioning. Success will be measured against the extent to which the animals return to the area.	

<b>Environmental Component</b>	<b>Wildlife (Injury and death)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Injury and death to wildlife:</b>                  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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The animal life habitat must be restored after decommissioning. Success will be measured against the extent to which the animals return to the area.	

<b>Environmental Component</b>	<b>Wildlife</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p>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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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.	

<b>Environmental Component</b>	<b>Surface Water (quality)</b>
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Change in surface water quality:</b>                  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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The post closure water run-off may in no circumstance impact negatively on the water quality.	

Environmental Component	Surface Water (quantity)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Change in surface water quantity:</b> 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.</p> <p>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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Reduction of groundwater quality:</b> Storm water control measures must be implemented to divert clean water away from the site and keep (silt) contaminated water contained.</p> <p>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.</p> <p>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.</p> <p>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).</p> <p>An incidence register for this purpose must be kept.</p> <p>Drip trays must be available and used where emergency repairs is done.</p> <p>All waste must be stored according to best practices and disposed at an authorized waste disposal facility.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Post water quality need to indicate a positive trend/improvement.	

Environmental Component	Ground Water (quantity)
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Reduction of groundwater quantity, lowering of groundwater level:</b> Water levels in the boreholes that are used for prospecting activities should be recorded monthly.</p> <p>Water volumes should be recorded continuously to ensure compliance with the water use authorization for abstraction.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Post water quality need to indicate a positive trend/improvement.	

Environmental Component	Air Quality
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>Dust:</b> The prospecting method will serve as mitigation measure because prospecting will limit dust to the active prospecting area (area where the excavator and the trucks 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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p>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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
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
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<p><b>No graves on site.</b>                      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.</p>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No site of archaeological importance should be disturbed or damaged until the necessary permit from SAHRA has been issued.	

Environmental Component	Sensitive Landscapes
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
None	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	

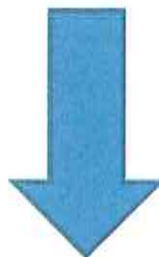
Environmental Component	Visual Aspects
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
Visual impact would be addressed by means of; * re-vegetation of disturbed areas with grasses; * removal of any temporary building, scrap, domestic waste, etc. that would otherwise contribute to a negative visual impact. Concurrent rehabilitation should be done simultaneously as prospecting activities progress.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
No residual visual impacts will remain after closure. The terrain should blend in with the surrounding landscape.	

Environmental Component	Socio-Economics
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
There will be a very small increase in Socio – economic activity at local level, because of the size of this prospecting activity.	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
The economic development must deliver a multiplier effect that will contribute to the local economy long after closure.	

Environmental Component	Interested and Affected Parties
<b>Environmental Management/Mitigation Measures/Action Plans/Commitments</b>	
<b>Access control should always be a priority.</b> Active prospecting site should be fenced off and also any deep water holes. If any problem should arise, <b>meetings</b> will be held with the landowners and affected parties to consult them on certain matters like permission to prospect and pollution. <b>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.)</b>	
<b>EMP Performance Assessment &amp; Monitoring Reporting</b>	
To be included in EMP/EIA.	
<b>Closure Objective</b>	
Not to be an economic, social or environmental liability to the local community or the state now or in the future. The company will ensure that the interest of all interested and affected parties will be considered.	

i) **UNDERTAKING REGARDING CORRECTNESS OF INFORMATION**

*In term of NEMA – EIA Regulations No. 326 of 7 April 2017 – Reg. 21, Appendix 2 – 2. (1)(j)(i), [(k)](j), [(l)](k), [(m)](l)*



**UNDERTAKING**

I, H.M. Erasmus, the undersigned and duly authorised thereto by DERA Omgewingskonsultante (PTY) Ltd hereby confirm:

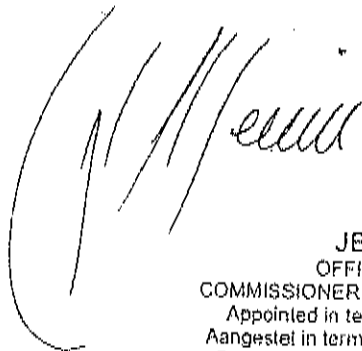
- ✓ the correctness of the information provided in this report;
- ✓ the inclusion of comments and inputs from stakeholders and I&AP's;
- ✓ the inclusion of inputs and recommendations from the specialist reports where relevant and where applicable and;
- ✓ all information provided to the interested and affected parties a true reflection of this document.

Signed at Klerksdorp on this day 18<sup>th</sup> of February 2022.



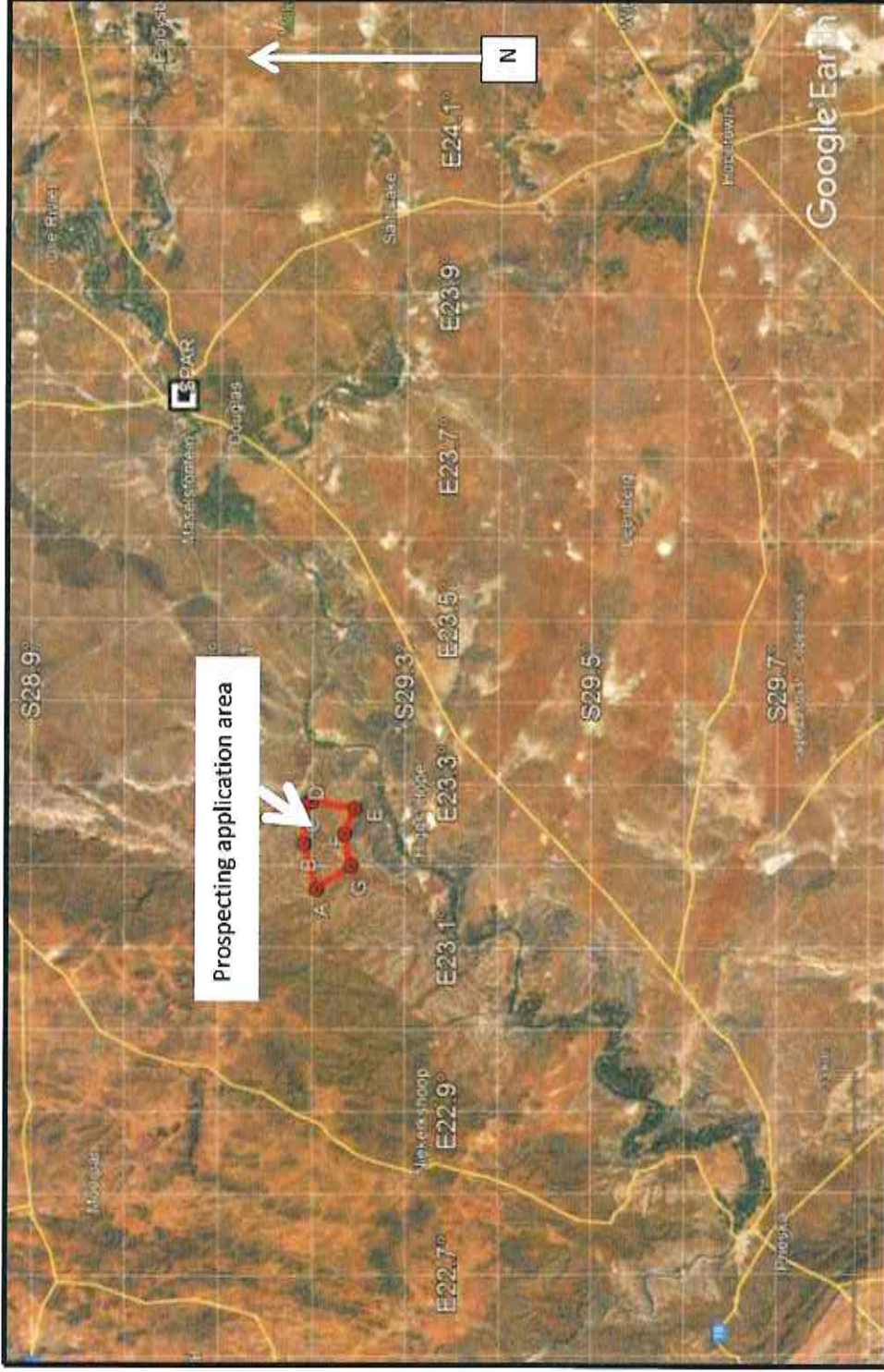
Signature of EAP

-END-



**JERRY DEAN MENIN**  
OFFICE MANAGER / AUDITOR  
COMMISSIONER OF OATHS / KOMMISSARIS VAN EDE  
Appointed in terms of Section 5(1) of Act 16 of 1963  
Aangestel in terme van Artikel 5(1) van Wet 16 van 1963  
Centraal 32 Central Avenue, Flamwood, Klerksdorp  
Appointed/Aangestel: 23 Oktober 2012  
Reference/Verwysing: 9/1/8/2 Klerksdorp

**General location of Prospecting right area (4449,5 ha)**

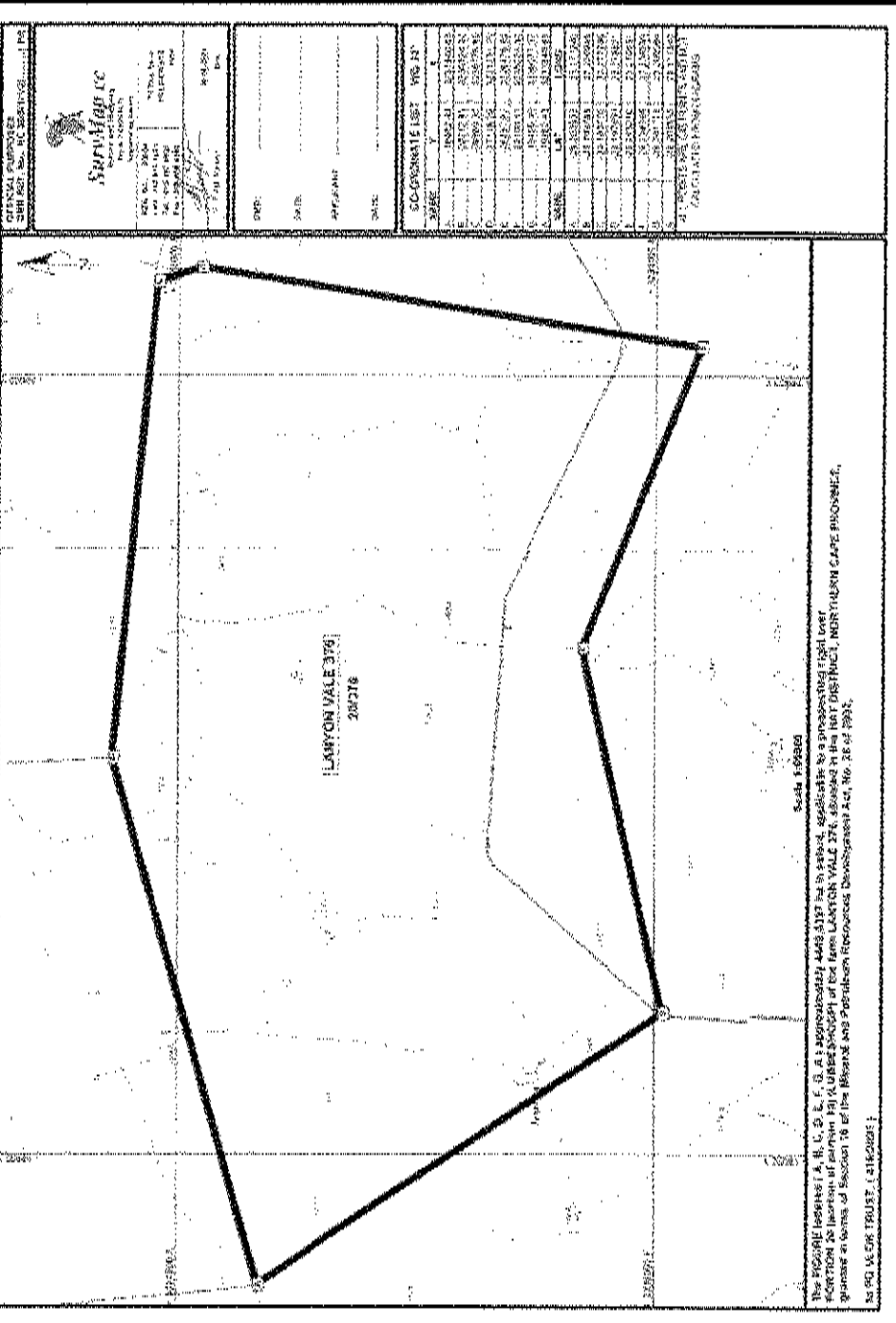


**MAP 1A**



Survey Map is Copyright © 9/06/2021

Map No. 2021-018



**SurveyMap inc**  
 10000 100th Ave. S.E.  
 Suite 100  
 Burnaby, BC V5A 4C9  
 Tel: 604-291-1111  
 Fax: 604-291-1112  
 Email: info@surveymap.com

CLIENT PURPOSE: [ ]  
 SURV. DIST. No. BC 282716-018

DATE: 2021-09-06  
 TIME: 10:00 AM  
 PROJECT: [ ]  
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DEPT: [ ]  
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 SECTIONAL LIST NO. 100

The Province hereby certifies that the above described land is a predecessor title over  
 the portion of the parcel 141 (LUBBER BROOK) of the town LAKYON VALE 376, Abbotsford in the DISTRICT OF NORTHWESTERN CREST, NORTHWESTERN CREST REGION,  
 British Columbia, as shown on the plan of subdivision and subdivision agreement, No. 28 of 1992,  
 as set out in the plan of subdivision, L-214-2021-1.

MAP/PLAN 1 b1



MAP/PLAN 1b (2)

**LAND USE COMPOSITE MAP**



**MAP/PLAN 1C**

# APPENDIX 2 - RESULTS OF CONSULTATION

Interested and Affected Parties List the names of persons consulted in this column, and Mark with an "X" where those who must be consulted were in fact consulted.	Date sent and/or Comments Received	Issues raised	EAP's response to the applicant
<b>AFFECTED PARTIES</b>			
<b>Landowners</b>			
PG Vlok Trust (A.C. Vlok) (Landowner and applicant) P.O. Box 547, Douglas, 8730 Cell: 082 418 4494 E-mail: <a href="mailto:vlok@vodanet.co.za">vlok@vodanet.co.za</a> or <a href="mailto:vlok@gmail.com">vlok@gmail.com</a>	18 Jan 2022	No objection as the applicant is also the landowner	
<b>Landowners or Lawful occupiers of the adjacent properties</b>			
Mr. J.F. Gouws (Neighbour) Woutersen Boerdery (Pty) Ltd P.O. Box 609, Douglas, 8730 Cell: 082 785 9360 E-mail: <a href="mailto:gouwsjf@gmail.com">gouwsjf@gmail.com</a>	18 Jan 2022 5 Feb 2022	No objection, see signed consultation letter.	
Swiegers Boerdery Trust (Neighbour) 2 Christo Groenewald Street, Helicon Hoogte, Bloemfontein, 9301 Cell: 084 491 2703 E-mail: <a href="mailto:liezswiegers2703@gmail.com">liezswiegers2703@gmail.com</a>	18 Jan 2022 31 Jan 2022	No objection, see signed consultation letter.	
Mr. C.L. Hager (Neighbour) P.O. Box 69, Douglas, 8730 Cell: 086 188 6151 E-mail: <a href="mailto:lousihager1@outlook.com">lousihager1@outlook.com</a>	18 Jan 2022 3 Feb 2022	No objection, support project, see signed consultation letter.	
Mr. S.P. du Toit (Neighbour) P.O. Box 573, Douglas, 8730 Cell: 083 462 2135 E-mail: <a href="mailto:Stefan@taskamel.co.za">Stefan@taskamel.co.za</a>	18 Jan 2022 28 Jan 2022	No objection, see signed consultation letter.	
<b>Municipal councillor</b>			
<b>Municipality</b>			
Siyancuma Local Municipality Municipal Manager: Mr. H.F. Nel Civic centre, Charl Cilliers str, Douglas, 8730 Fax: 053 296 3141; Tel: 053 296 1810 E-mail: <a href="mailto:douglas@siyancuma.gov.za">douglas@siyancuma.gov.za</a>	16 Jan 2022	Consultation letter to Mr. Nel.	
<b>Organs of state (Responsible for infrastructure that may be affected Roads Department, Eskom, Telkom, DWA.</b>			
<b>Eskom</b>			
<b>Communities</b>			
<b>Dept. Land Affairs</b>			
Ms. Runyda Baulackey Tel: 053 807 5700; E-mail: <a href="mailto:baulackey@drdlr.gov.za">baulackey@drdlr.gov.za</a>	18 Jan 2022	E-mail sent to verify any land claims	
<b>Traditional Leaders</b>			
N/A			
<b>Dept. Agriculture, Land Reform and Rural Development &amp; Environmental Affairs &amp;</b>			
Thembiwele Mabusa 02 Harrison Street, De Beers, Kimberley, 8301 Cell: 064 869 0976 162 George Street, Private Bag X 5018, Kimberlie Building, Kimberley, 8300 Tel: 053 638 9100; Fax: 053 631 4665	18 Jan 2022	Scoping Reports sent with Courier Guy for comments	

# APPENDIX 2 - RESULTS OF CONSULTATION

<p><b>Dept. Water and Sanitation</b>          Chief Director, Northern Cape          Leitho Mokoane          28 Central Road, Beaconsfield, Kimberley, 8300          Tel: 083 655 8312; E-mail: Mokoanle.l@nw.gov.za</p>	<p>X</p>	<p>18 Jan 2022</p>	<p>Scoping Reports sent with Courier Guy for comments</p>
<p><b>Dept. Agriculture, Forestry and Fisheries</b>          DALRAEA has indicated that they will forward the document to DA</p>	<p>X</p>		
<p><b>Other Competent Authorities</b></p>			
<p><b>OTHER AFFECTED PARTIES</b></p>			
<p><b>INTERESTED PARTIES</b>          SAHRA          P.O. Box 4637, Cape Town, 8000          Tel: 021 462 4502 e-mail: info@sahra.org.za</p>	<p>X</p>		

Notice published in the DFA of Friday 4 February 2022

.....

P O Box 6499  
Flamwood  
2572  
Fax: 018 011 3760  
Mobile: 082 895 3516  
E-mail: [dera\\_office@dera.co.za](mailto:dera_office@dera.co.za)

# DERA

18 January 2022

## Environmental Consultants

To whom it may concern

**CONSULTATION WITH INTERESTED AND AFFECTED PARTIES WITH REGARD TO AN APPLICATION FOR A PROSPECTING RIGHT IN TERMS SECTION 16 OF THE MINERALS AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002) AND NEMA, EIA 2014 OVER: PORTION 20 (PORTION OF PORTION 15)(LUBBESHOOP) OF THE FARM LANYON VALE 376, MAGISTERIAL DISTRICT OF HAY.**

You are herewith informed that **PG Vlok Trust** has submitted an application in terms of Section 16 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002) and NEMA, EIA 2014, to the Regional Manager: Mineral Regulation, Northern Cape Region in respect of the prospecting of **Diamonds Alluvial & Diamonds in Kimberlite** in the magisterial district of Hopetown.


**PG Vlok Trust** is in the process of compiling the Scoping Report, which needs to be submitted by at the Regional Office of DMR. An Environmental Management Programme (EMP) & Environmental Impact Report (EIA) need to be submitted at the Regional Office of DMR within 106 days from date of acceptance of the Scoping Report. The documents will be available for I&AP's for comments. See attached the Sketch plan & Environmental Authorisation.

In terms of Section 10 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002), and in terms of Regulation 39(1) of the regulations published in the Government Notice No. R10328 (of 4 December 2014) under Chapter 6 of the NEMA, EIA 2014, the landowner or legal occupier of the land, as well as any other interested party must be notified and consulted with in terms of the proposed project.

**PG Vlok Trust** deems it necessary to consult with inter alia yourself / your company/ your organization, and you are therefore kindly requested to comment very clearly and unambiguously with regards to the proposed prospecting project. You are requested to submit in writing, any interest/ objection and/or comments you may have and return it to the appointed consultants (**Reference no. NC30/5/1/1/2/12991PR**) within 30 days from the date of receipt of this letter. If no correspondence is received from you within the mentioned time frame, the applicant shall accept that you have no objection with the proposed prospecting activities.

Please call me if any further information is needed.

Your co-operation will be appreciated.

Yours faithfully  


**Esna Erasmus**  
**DERA Environmental Consultants**

.....

: :  
**REGISTRATION FORM AND COMMENT FOR THE PUBLIC PARTICIPATION PROCESS OF THE  
PROPOSED PROSPECTING RIGHT ON PORTION 20 (PORTION OF PORTION 15)(LUBBESHOOP) OF THE FARM  
LANYON VALE 376, MAGISTERIAL DISTRICT OF HAY.**  
: :

Esna Erasmus  
P.O. Box 8499  
KLERKSDORP  
2572

Tel. 018-468 5355  
Fax: 018-011 3760  
Mobile: 082 895 3516  
E-mail: [dera\\_office@dera.co.za](mailto:dera_office@dera.co.za)

**PERSONAL INFORMATION:**

Title/Titel: Mnr Initials/Voorletters: JF First Name/Eerste naam: Johannes  
Surname/Van: Gouws  
E-mail/E-pos: gouwsj@gmail.com  
Telephone/Telefoon: 0827859360 Fax/Faks: \_\_\_\_\_  
Organisation (if applicable)/Organisasie (indien van toepassing): Wouterspan Boerdery (Pty) Ltd  
Capacity (member, etc.)/Kapasiteit (lid ens): Direkteur  
Landowner/Grondseigneur/Neighbour/Buurman/ Interested and/or affected party on the farm/ op die plaas: Grondseigneur/Buurman (Thomley)  
Postal Address/ Posadres: Posbus 609, Douglas 8730  
Town/City/Dorp/Stad: Douglas Code/Kode: 8730

**COMMENT/OBJECTION:**

1. What is the nature of your interest in the proposed project/Wat is u belang in die voorgename projek?  
Grondseigneur van aangrensende eiendom (plaas)

2. Do you have any ground for objection or do you support the proposed project/Het u enige gronde tot beswaar of ondersteun u die bogenoemde projek?  
Geen beswaar en ondersteun ten volle die projek

**YES/NO JA/NEE**

If "Yes", please list shortly/Indien 'JA', lys asseblief kortliks.  
N.V.T.

3. Do you foresee that this activity will have a negative impact on yourself or the environment/Voorsien u dat die voorgename projek 'n negatiewe inpak kan he op uself of die omgewing?

**YES/NO JA/NEE**

If "Yes", please describe shortly/Indien 'JA', verduidelik asseblief kortliks.  
Nee

Filled in on/Ingevul op: 5de day of /dag van Februarie (month)/(maand) 2022

Name and Surname/ Company

Naam en Van/Maatskappy

Signature/Handtekening

JF Gouws (Wouterspan Boerdery (Pty) Ltd

**REGISTRATION FORM AND COMMENT FOR THE PUBLIC PARTICIPATION PROCESS OF THE  
PROPOSED PROSPECTING RIGHT ON PORTION 20 (PORTION OF PORTION 15) (LUBBESHOOP) OF THE FARM  
LANYON VALE 376, MAGISTERIAL DISTRICT OF HAY.**

Esna Erasmus  
P.O. Box 8499  
KLERKSDORP  
2572

Tel: 018-408 5355  
Fax: 018-011 3760  
Mobile: 082 895 3510  
E-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

**PERSONAL INFORMATION:**

Title/Title: ..... Initials/Voorletters: ..... First Name/Eerste naam: .....  
Surname/Van: SWIEGERS Bdy TRUST  
E-mail/E-pos: lieb.swiegers@703b.g.mail.com  
Telephone/Telefoon: 084 491 2703 Fax/Faks: —  
Organisation (if applicable)/Organisasie (indien van toepassing): .....  
Capacity (member, etc.)/Kapasiteit (lid ens): TRUSTEE  
Landowner/Grondeienaar/Neighbour/Buurman/ Interested and/or affected party on the farm/ op die plaas: EIGENAAR  
Postal Address/ Posadres: SANTE AFTRIE OORD 107 CHRISTO GROENEWALDSTR 2  
Town/City/Dorp/Stad: HELIKON HOOGTE BRONFONTEIN Code/Kode: 9301

**COMMENT/OBJECTON:**

1. What is the nature of your interest in the proposed project/Wat is u belang in die voorgename projek? GEEN

2. Do you have any ground for objection or do you support the proposed project/Het u enige gronde tot beswaar of ondersteun u die bogenoemde projek? GEEN BESWAAR

YES  NO JA/NEE

If "Yes", please list shortly/Indien "JA", lys asseblief kortliks. N.V.T.

3. Do you foresee that this activity will have a negative impact on yourself or the environment/Voorsien u dat die voorgename projek 'n negatiewe inpak kan he op uself of die omgewing?

YES  NO JA/NEE

If "Yes", please describe shortly/Indien "JA", verduidelik asseblief kortliks. NEE.

Filled in on/Ingevat op 31<sup>st</sup> day of/dag van JANUARIE (month)/(maand) 2022

LIEB SWIEGERS  
Name and Surname/ Company  
Naam en Van/Maatskappy

[Signature]  
Signature/Handtekening



**REGISTRATION FORM AND COMMENT FOR THE PUBLIC PARTICIPATION PROCESS OF THE  
PROPOSED PROSPECTING RIGHT ON PORTION 20 (PORTION OF PORTION 15)(LUBBESHOOP) OF THE FARM  
LANYON VALE 376, MAGISTERIAL DISTRICT OF HAY.**

Esna Erasmus  
P.O. Box 6499  
KLERKSDORP  
2572

Tel. 018-468 5355  
Fax: 018-011 3760  
Mobile: 082 895 3516  
E-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

**PERSONAL INFORMATION:**

Title/Titel: Mr Initials/Voorletters: C.L. First Name/Eerste naam: CARL LOUIS  
Surname/Van: HAGER  
E-mail/E-pos: louis.hager.1@outlook.com  
Telephone/Telefoon: +27 188 6151 3484 Fax/Faks: \_\_\_\_\_  
Organisation (if applicable)/Organisasie (indien van toepassing): Farm Brakkes  
Capacity (member, etc.)/Kapasiteit (lid ens): Owner  
Landowner/Grondelenaar/Neighbour/Buurman/ Interested and/or affected party on the farm/ op die plaas: Brakkes  
Postal Address/ Posadres: P.O. Box 69  
Town/City/Dorp/Stad: Douglas Code/Kode: 8730

**COMMENT/OBJECTION:**

1. What is the nature of your interest in the proposed project/Wat is u belang in die voorgename projek?  
I am the owner of the neighboring farm, Brakkes, in the magisterial district of Hay. Neighboring the farm of the applicant, Mr. Vlok.

2. Do you have any ground for objection or do you support the proposed project/Het u enige gronde tot beswaar of ondersteun u die bogenoemde projek?  
I support Mr. Vlok's proposed operation on his property.

YES/NO JA/NEE

If "Yes", please list shortly/Indien 'JA', lys asseblief kortliks.

3. Do you foresee that this activity will have a negative impact on yourself or the environment/Voorsien u dat die voorgename projek 'n negatiewe inpak kan he op uself of die omgewing?

YES/NO JA/NEE

If "Yes", please describe shortly/Indien 'JA', verduidelik asseblief kortliks.

After consultation with Mr. Vlok and his assurance that the prospecting and mining operation will have a minimal impact on groundwater resources, I am in support of his intended activity.

Filed in on/Ingeval op: 3. Feb day of /dag van: February (month)/(maand) 2022  
CARL LOUIS HAGER (Farm Brakkes)

[Signature]  
Signature/Handtekening

Name and Surname/ Company  
Naam en Van/Maatskappy

**REGISTRATION FORM AND COMMENT FOR THE PUBLIC PARTICIPATION PROCESS OF THE  
PROPOSED PROSPECTING RIGHT ON PORTION 20 (PORTION OF PORTION 15)(LUBBESHOOOP) OF THE FARM  
LANYON VALE 376, MAGISTERIAL DISTRICT OF HAY.**

Eana Erasmus  
P.O. Box 8499  
KLERKSDORP  
2572

Tel: 018-468 9385  
Fax: 018-011 3760  
Mobile: 082 996 3516  
E-mail: [gers.office@gers.co.za](mailto:gers.office@gers.co.za)

**PERSONAL INFORMATION:**

Title/Titel Mr Initials/Voortletters S.P. First Name/Eerste naam Stefan Petrus  
Surname/Naam du Toit  
E-mail/E-pos stefan@taskamel.co.za  
Telephone/Telefoon 083 462 2155 Fax/Faks ..  
Organisation (if applicable)/Organisasie (indien van toepassing) ..  
Capacity (member, etc.)/Kapasiteit (lid ens): ..  
Landowner/Grondewaar/Neighbour/Bluurman/ interested and/or affected party on the farm/ op die plaas Kameelplats  
Postal Address/Posadres Postbus 573  
Town/City/Dorp/stad Douglas Code/kode 8230

**COMMENT/OBJECTION:**

1. What is the nature of your interest in the proposed project/What is u belang in die voorgename projek?  
Green

2. Do you have any ground for objection or do you support the proposed project/Het u enige gronde tot beswaar of ondersteun u die voorgename projek?  
Nee

**YES/NO JA/NEE**

If 'Yes', please list shortly/Indien 'JA', lys asseblief kortliks

3. Do you foresee that this activity will have a negative impact on yourself or the environment/Voorsien u dat die voorgename projek 'n negatiewe inpak kan he op u self of die omgewing?

**YES/NO JA/NEE**

If 'Yes', please describe shortly/Indien 'JA', verduidelik asseblief kortliks

Filed in/afgeleef op 28 day of/daag van January (month)/(maand) 2022

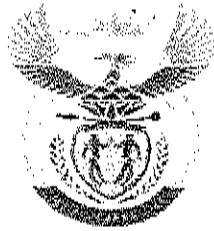
Stefan du Toit

[Signature]

Name and Surname/ Company

Signature/Handtekening

Naam en Van/Maatskappy



# mineral resources & energy

Department:  
Minerals Resources and Energy  
REPUBLIC OF SOUTH AFRICA

Private Bag X 6093, Kimberley, 8300, 41 Schmitzdriif Road, Telkom Building, Kimberley, 8301  
Tel: 053 807 1722 Fax: 053 832 5671 Email: [turnelo.sedupane@dmr.gov.za](mailto:turnelo.sedupane@dmr.gov.za), Ref: NC30/5/1/1/2/12991 PR

**From:** Mineral Regulation      **Enquiries:** TK Sedupane

## Per Registered Mail

**The Trustees**

**PG Vlok Trust**

P O Box 6499

Flamwood

Klerksdorp

2572

Fax: 018 011 3760

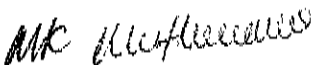
Dear: Sir/Madam

**APPLICATION FOR PROSPECTING RIGHT IN TERMS OF SECTIONS 16 AND 20 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT 28 OF 2002 AS AMENDED BY SECTION 12 OF ACT 49 OF 2008: PORTION 20 OF LANYON VALE NO.376: WITHIN THE ADMINISTRATIVE DISTRICT OF HAY.**

1. This is to inform you that your application for a prospecting right with bulk sampling in terms of Sections **16 and 20** of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002) ("Act") as amended to prospect for **Diamond (Kimberlite and Alluvial)**, has been accepted.
2. In terms of section **12 (d)** of the Act, you are directed to comply with the following instructions.

- a. Notify and consult with the landowner, lawful occupier and any interested and affected party and include the result of the consultation in the environmental reports in line with Regulation 41(2) read with Section 24J of National Environment Management Act, 1998.
  - b. Lodge an application in terms of National Water Act No.36 of 1998 with the Department of Water Affairs with immediate effect.
3. Your attention is drawn to the provisions of Section 17(1)(e) of the MPRDA, which provide that the Minister may grant an application for a prospecting right if the applicant is not in contravention of any relevant provision of the Act. Section 19(2)(f) places an obligation on the holder of a prospecting right to pay prescribed prospecting fees, as per regulation 76 of the MPRDA.
  4. You are therefore reminded to ensure that payment of all prospecting fees for all the prospecting rights you hold, are up to date, failing which may have a negative impact on the outcome of your current application.
  5. Further note that the acceptance of your application does not grant you the right to commence with prospecting activities. It only signify that your application will be processed, evaluated and the Minister or his delegate will make a decision within 197 days from the date of lodgement

**Yours faithfully**

  
**ACTING REGIONAL MANAGER  
MINERAL REGULATION  
NORTHERN CAPE REGION  
DATE: 13 JANUARY 2022**

## Gerda

---

**From:** Gerda <dera.office@dera.co.za>  
**Sent:** Wednesday, 26 January 2022 14:12  
**To:** 'douglas@siyancuma.gov.za'  
**Subject:** Consultation letter - PG Vlok Trust - Prospecting Right application  
**Attachments:** Consultation letter - PG Vlok Trust - Prospecting Right application.pdf

Good day Sir

Please find attached our consultation letter for PG Vlok Trust for a proposed Prospecting Right application in the district of Hay

It will be appreciated if you can complete the attached consultation form and return to [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

Kind regards.

Gerda Els  
Cell: 083 225 1593

Esna Erasmus  
Dera Omgewingskonsultante (Pty) Ltd.  
Reg no: 2014/051013/07  
P.O. Box 6499, Flamwood, 2572  
VAT no: 4590284073  
Tel: 018 468 5355  
Fax: 018 011 3760  
Cell: 082 895 3516  
e-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

Your message is ready to be sent with the following file or link attachments:

Consultation letter - PG Vlok Trust - Prospecting Right application

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

.....  
**DERA**

18 January 2022

## Environmental Consultants

**Siyancuma Local Municipality**

**Attention: Mr. H.F. Nel**

**RE: CONSULTATION WITH INTERESTED & AFFECTED PARTIES**

It is hereby confirmed that that PG Vlok Trust has applied for a prospecting right over Portion 20 (Portion of Portion 15) (Lubbeshoop) of the farm Lanyon Vale 376, district of Hay

The Department of Mineral Resources has requested that the Siyancuma Local Municipality must be informed about the proposed prospecting right application.

Please find attached the consultation letter with the information regarding the proposed prospecting right.

It would be highly appreciated if you could return the attached consultation letter to Dera Environmental Consultants at Fax: 018 011 3760 or [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

Should you have any questions regarding the above, please call Mrs. Erasmus at 082 895 3516

DERA Environmental Consultants can be contacted for any further enquiries.

Yours sincerely



Esna Erasmus  
DERA Environmental Consultants

.....

.....

P O Box 6499  
Flamwood  
2572  
Fax: 018 011 3760  
Mobile: 082 895 3516  
E-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

# DERA

18 January 2022

## Environmental Consultants

To whom it may concern

**CONSULTATION WITH INTERESTED AND AFFECTED PARTIES WITH REGARD TO AN APPLICATION FOR A PROSPECTING RIGHT IN TERMS SECTION 16 OF THE MINERALS AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002) OVER: PORTION 20 (PORTION OF PORTION 15)(LUBBESHOOP) OF THE FARM LANYON VALE 376, MAGISTERIAL DISTRICT OF HAY.**

You are herewith informed that **PG Vlok Trust** has submitted an application in terms of Section 22 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002), to the Regional Manager: Mineral Regulation, Northern-Cape Region in respect of **Diamonds (Alluvial) & Diamonds (Kimberlite)**, in the magisterial district of Hay.

**PG Vlok Trust** is in the process of compiling the Scoping Report, which needs to be submitted at the Regional Office of DMR. After acceptance of the application is received an Environmental Management Programme (EMP) & Environmental Impact Report (EIA) need to be submitted at the Regional Office of DMR within 106 days from date of acceptance of the Scoping Report. See attached an extraction of the Prospecting Work Programme (PWP), Sketch plan & Environmental Authorisation.

In terms of Section 10 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002), and in terms of Regulation 40(2) of the regulations published in the Government Notice No. R10328 (of 4 December 2014) under Section 26 of the Environmental Conservation Act, (Act 73 of 1989), the landowner or legal occupier of the land, as well as any other interested party must be notify and must be consulted with in terms of the proposed project.

**PG Vlok Trust** deem it necessary to consult with inter alia yourself / your company/ your organization, and you are therefore kindly requested to comment very clearly and unambiguously with regard to the proposed prospecting project. You are requested to put in writing any interest/ objection and/or comments you may have and send it back to the appointed consultants (**Reference no. NC30/5/1/1/2/12991PR**) within 30 days from the date of receipt of this letter. If no correspondence is received from you within the mentioned period, the applicant shall accept that you have no objection in the proposed prospecting activities.

Please call me if any further information is needed.

Your co-operation will be appreciated.

Yours faithfully

  
**Esna Erasmus**

**DERA Environmental Consultants**

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: :  
REGISTRATION FORM AND COMMENT FOR THE PUBLIC PARTICIPATION PROCESS  
PROPOSED PROSPECTING RIGHT APPLICATION ON PORTION 20 (portion of portion 15)(LUBBESHOOP) OF THE  
FARM LANYON VALE 376, DISTRICT HAY.  
: :

Esna Erasmus  
P.O. Box 6499  
KLERKSDORP  
2572

Tel. 018-468 5355  
Fax: 018-011 3760  
Mobile: 082 895 3516  
E-mail: [dera\\_office@dera.co.za](mailto:dera_office@dera.co.za)

**PERSONAL INFORMATION:**

Title/Titel:..... Initials/Voorletters: ..... First Name/Eerste naam:.....

Surname/Van.....

E-mail/E-pos.....

Telephone/Telefoon..... Fax/Faks.....

Organisation (if applicable)/Organisasie(indien van toepassing): .....

Capacity (member, etc.)/Kapasiteit (lid ens): .....

Interested and/or Affected party on the farm/Geïnteresseerde en/of geïmpakteerde party op die plaas.....

Postal Address/ Posadres .....

Town/City/Dorp/Stad: ..... Code/Kode: .....

**COMMENT/OBJECTION:**

1. What is the nature of your interest in the proposed project/Wat is u belang in die voorgename projek?

2. Do you have any ground for objection or do you support the proposed project/Het u enige gronde tot beswaar of ondersteun u die bogenoemde projek?

**YES/NO JA/NEE**

If "Yes", please list shortly/Indien 'JA', lys asseblief kortliks.

3. Do you foresee that this activity will have a negative impact on yourself or the environment/Voorsien u dat die voorgename projek 'n negatiewe inpak kan he op uself of die omgewing?

**YES/NO JA/NEE**

If "Yes", please describe shortly/Indien 'JA', verduidelik asseblief kortliks.

Filled in on/Ingevol op..... day of /dag van..... (month)/(maand) 2022

**Name and Surname/ Company**

**Signature/Handtekening**

**Naam en Van/Maatskappy**

.....



## Gerda

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**From:** Gerda <dera.office@dera.co.za>  
**Sent:** Wednesday, 26 January 2022 14:08  
**To:** 'ruwayda.baulackey@drdlr.gov.za'  
**Subject:** Verification of land claims - PG Vlok Trust - Hay district  
**Attachments:** Verification of land claims - PG Vlok Trust - Hay district.pdf

Good day Ruwayda

Please find attached our request for verification of land claims on the farm lanyonvale in the district of Hay.

Kind regards.

Gerda Els  
Cell: 083 225 1593

Esna Erasmus  
Dera Omgewingskonsultante (Pty) Ltd.  
Reg no: 2014/051013/07  
P.O. Box 6499, Flamwood, 2572  
VAT no: 4590284073  
Tel: 018 468 5355  
Fax: 018 011 3760  
Cell: 082 895 3516  
e-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

Your message is ready to be sent with the following file or link attachments:

Verification of land claims - PG Vlok Trust - Hay district

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

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P O Box 6499  
Flamwood  
2572  
Tel.: 018-468 5355  
Fax: 018-011 3760  
Cell. 082 895 3516  
E-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

# DERA

18 January 2022

## Environmental Consultants

**Department of Land Affairs & Rural Development**

**Attention: Ms. Ruwayda Baulackey**  
**E-mail: [ruwayda.baulackey@drdir.gov.za](mailto:ruwayda.baulackey@drdir.gov.za)**

**Re: Verification of Land Claims**

We are Environmental Consultants situated in Klerksdorp and has applied on behalf of PG Vlok Trust for a Prospecting Right on the following farm in the Hay district.

- **Portion 20 (portion of portion 15) (Lubbeshoop) of the Farm Lanyon Vale 376**
- **Siyancuma Local Municipality**

Could you please be so kind to verify if there are any land claims over the farms as mentioned above?

It would be highly appreciated if you could help us in this matter as soon as possible.

Please feel free to contact the office of Dera Environmental Consultants or Mrs. Erasmus on cell: 082 895 3516 for any further information.

Yours truly,

P.P. 

Esna Erasmus

.....

## PUBLIC NOTICE

### APPLICATION FOR AN ENVIRONMENTAL AUTHORIZATION FOR THE PROPOSED ACTIVITIES.

Notice is given for the following application:

- 1) Environmental authorization application for prospecting.

- **Proponent:** The applicant is PG Vlok Trust.
- **Ref. no:** NC30/5/1/1/2/12991PR
- **Property description:** The proposed prospecting area is over Portion 20 (portion of portion 15) (Lubbeshoop) of the Farm Lanyon Vale 376 in the Hay district. The total extent of the prospecting area is 4449,5397 hectares. (21 SG digital code:
  - C03100000000037600020
- **Location:** The property is situated ±45 km south of Douglas.
- **Project description:** The purpose of the application is to obtain the required authorisation from the Department to successfully: undertake geological surveys, test pits and bulk sampling.
- **Process followed - Scoping Report**
- **Activity applied for:** the following activities as listed in terms of NEMA (Act No. 107 of 1998) as amended and EIA Regulations, 2014 was applied for under Activity 19, Listing Notice 2 – GNR 325 of 2014, Activity 20, Listing Notice 1 – GNR 327 of 2014, and Activity 27, Listing 1 – GNR 327 of 2014
- **Minerals applied for:** Diamonds Alluvial & Diamonds in Kimberlite
- **Date submitted:** 23 July 2021
- **Stakeholder involvement:** Stakeholders are invited to register as interested and affected parties and to participate in the application process by identifying issues of concern and suggestions for consideration in the Scoping Report. I&AP's can contact Dera Environmental Consultants for any further information required. Please submit your written comments by mail, fax or e-mail in this 30 day of this notice to:
  - Mrs. Esna Erasmus of DERA Environmental Consultants
  - PO Box 6499                      E-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)
  - Flamwood                        Tel: 018 468 5355
  - 2572                                Fax: 018 011 3760
  - Cell: 082 895 3516;
- **Date of advertisement:** Friday 4 February 2022

# Compensation Fund Vacancies

It is the Department's intention to promote equity (race, gender and disability) through the filling of this post with a candidate whose transfer / promotion / appointment will promote representivity in line with the numeric targets as contained in our Employment Equity plan.

**Post:** Director: Risk Management  
**Centre:** Compensation Fund, Pretoria  
**Reference No:** HR 5/1/2/3/07  
**Salary:** R 1 057 326.00 per annum (inclusive)  
**Enquiries:** Mr V Mafata Tel: (012) 319 9495

**Requirements:**  
 An undergraduate Qualification (NOF Level 7) in Internal Auditing/Risk Management/Finance • A pre-entry Certificate for SMS is required • 5 years' experience at Middle/Senior Management level at Risk Management environment. • Statutory body requirements: Risk Management Institute of South Africa  
**Note:** Coloureds, Indians Whites and Persons with disabilities are encouraged to apply.  
**Direct your applications to:** [Jobs-CF7@labour.gov.za](mailto:Jobs-CF7@labour.gov.za)

**Post:** Deputy Director: System Administrator  
**Centre:** Compensation Fund, Pretoria  
**Reference No:** HR 5/1/2/3/08  
**Salary:** R744 256.00 per annum (inclusive)  
**Enquiries:** Mr L Kotta, Tel: (012) 406 5853

**Requirements:**  
 A Three-year tertiary qualification in Information Technology/BCom Information Systems • 5 years' functional experience in Information systems of which 2 years is at Assistant Director or entry management level.  
**Note:** Coloureds, Indians Whites and Persons with disabilities are encouraged to apply.  
**Direct your applications to:** [Jobs-CF9@labour.gov.za](mailto:Jobs-CF9@labour.gov.za)

**Post:** Assistant Director: Logistics  
**Centre:** Compensation Fund, Pretoria  
**Reference No:** HR 5/1/2/3/09  
**Salary:** R362 245.00 per annum  
**Enquiries:** Ms KPZ Mhethwa, Tel: (012) 406 5680

**Requirements:**  
 A Three-year tertiary qualification in Supply Chain/Purchases/Logistics/ Procurement Management/ Commerce • 4 years' functional experience in supply chain management environment of which 2 years is at supervisory level in supply chain environment.  
**Note:** Coloureds, Indians Whites and Persons with disabilities are encouraged to apply.  
**Direct your applications to:** [Jobs-CF9@labour.gov.za](mailto:Jobs-CF9@labour.gov.za)

**Post:** Assistant Director: COID Statutory Services (2 posts)  
**Centre:** Compensation Fund, Pretoria  
**Reference No:** HR 5/1/2/3/10  
**Salary:** R382 245.00 per annum  
**Enquiries:** Mr TS Maluleke (012 309 4896)

**Requirements:**  
 A BCom Law/ LLB Law Degree. Admission as an Attorney or Advocate will be an added advantage • Valid driving licence. 2 years' functional experience in legal/statutory services environment • 2 years supervisory level.  
**Note:** Coloureds, Indians Whites and Persons with disabilities are encouraged to apply.  
**Direct your applications to:** [Jobs-CF5@labour.gov.za](mailto:Jobs-CF5@labour.gov.za)

## CLOSING DATE: 21 February 2022

**NOTE:** Applications quoting the relevant reference number must be submitted on the new form Z83, obtainable from any Public Service Department or on the internet at [www.gov.za/documents](http://www.gov.za/documents). Received applications using the incorrect application for employment (old Z83) will not be considered. Each application for employment form must be fully completed, duly signed and initialled by the applicant. Failure to sign this form may lead to disqualification of the application during the selection process. A recently updated comprehensive CV as well as copies of all qualification academic transcripts including Senior Certificate, ID-document and a Driver's license where applicable should accompany a fully completed, initialled and signed new form Z83. Applicants must submit copies of qualifications, ID document and other relevant documents as indicated. Such copies need not be certified when applying for a post. The communication from the HR of the Department regarding the requirements of the certified documents will be limited to shortlisted candidates. Therefore, only shortlisted candidates for the post will be required to submit certified documents on or before the day of the interview following the communication from HR. Non-RSA Citizens/Permanent Resident Permit Holders must attach a copy of their Permanent Residence Permits to their applications. Should you be in possession of a foreign qualification, it must be accompanied by an evaluation certificate from the South African Qualification Authority (SAQA). Applicants who do not comply with the above-mentioned requirements, as well as applications received late, will not be considered. The Department does not accept applications via fax. Failure to submit all the requested documents will result in the application not being considered. Correspondence will be limited to short-listed candidates only. If you have not been contacted within eight (8) weeks after the closing date of this advertisement, please accept that your application was unsuccessful. Suitable candidates will be subjected to a personnel suitability check (criminal record, citizenship, credit record checks, qualification verification and employment verification). The Department reserves the right not to make any appointment(s) to the above post. A pre-entry certificate obtained from National School of Government (NSG) is required for all SMS applicants. The course is available at the NSG under the name Certificate for entry into SMS and the full details can be obtained by following the below link: <https://www.lhensg.gov.za/training-course/sms-pre-entry-programme/>. All shortlisted candidates for SMS posts will be subjected to a technical competency exercise that intends to test relevant technical elements of the job, the logistics of which will be communicated by the Department. Following the interview and technical exercise, the selection panel will recommend candidates to attend generic managerial competencies using the mandated DPSA SMS competency assessment tools. The successful candidate will be expected to sign an Internship performance agreement. The Department is an equal opportunity affirmative action employer. The Employment Equity Plan of the Department shall inform the employment decision. It is the Department's intention to promote equity (race, gender and disability) through the filling of this post(s).

**NB:** All attachments for on line application must including Z83 be in PDF and in one attachment (1) file, indicate the correct job title and the reference number of the post on the subject line of your email. Use the correct email address associated with the post. Failure to do so, your application will be disqualified.

## PUBLIC NOTICE

### Application for an Environmental Authorization for the proposed activities.

Notice is given for the following application:

1) Environmental authorization application for prospecting.

- **Proponent:** The applicant is PG Vlok Trust.
- **Ref. no:** NC30/5/1/1/2/12991PR
- **Property description:** The proposed prospecting area is over Portion 20 (portion of portion 15) (Lubbeshoop) of the Farm Lanyon Vale 376 in the Hay district. The total extent of the prospecting area is 4449,5397 hectares. (21 5G digital code: C0310000000037600020)
- **Location:** The property is situated ±45 km south of Douglas.
- **Project description:** The purpose of the application is to obtain the required authorisation from the Department to successfully undertake geological surveys, test pits and bulk sampling.
- **Process followed - Scoping Report**
- **Activity applied for:** the following activities as listed in terms of NEMA (Act No. 107 of 1998) as amended and EIA Regulations, 2014 was applied for under Activity 19, Listing Notice 2 – GNR 325 of 2014, Activity 20, Listing Notice 1 – GNR 327 of 2014, and Activity 27, Listing 1 – GNR 327 of 2014
- **Minerals applied for:** Diamonds Alluvial & Diamonds in Kimberlite
- **Date submitted:** 23 July 2021
- **Stakeholder involvement:** Stakeholders are invited to register as interested and affected parties and to participate in the application process by identifying issues of concern and suggestions for consideration in the Scoping Report. I&AP's can contact Dera Environmental Consultants for any further information required. Please submit your written comments by mail, fax or e-mail in this 30 day of this notice to:  
 Mrs. Esna Erasmus of DERA Environmental Consultants  
 PO Box 6499 E-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)  
 Flamwood Tel: 018 468 5355  
 2572 Fax: 018 011 3760  
 Cell: 082 895 3516;

**Date of advertisement:** Friday 4 February 2022

**GRANTING OF ENVIRONMENTAL AUTHORISATION (EA) INTERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) (AS AMENDED) (NEMA) AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS (EIAR), 2014: FOR PROSPECTING RIGHT OF MANGANESE ORE, COPPER OR AND IRON ORE SITUATED IN THE MAGISTERIAL DISTRICT OF HAY, NORTHERN CAPE PROVINCE. DMR Ref: NC 30/5/1/1/3/2/1 (12561) PR.**

Notice is hereby given that the Department of Mineral Resources (DMR), on Tuesday, 30 November 2021, granted an environmental authorisation to TSX Mining (Pty) Ltd. Notification of approval from DMR was only received on the 26th January 2022.

Stakeholders may obtain a full copy of the environmental authorisation by contacting Ndi Geological consulting service (EAP) from the following contact details: Mrs Mofokeng, cell: (082) 760 8420; fax: (086) 538 1069 or email: [atshidzaho@gmail.com](mailto:atshidzaho@gmail.com)

Please note that any person who wishes to appeal against the EA has until 24th February 2022, i.e. 20 calendar days from the date of the issue of this notice to notify the Minister of Environmental Affairs using the prescribed methods:

Email: [appealsdirector@environment.gov.za](mailto:appealsdirector@environment.gov.za)  
 By post: Private Bag X 447, PRETORIA, 0001  
 By hand: Environmental House, Corner Steve Biko and Soutpansberg Street, Arcadia, Pretoria, 0083.

Copy of the lodged appeal must also be submitted to the consultant and the Department of Mineral Resources (Northern Cape Regional Office).

Attention Regional Manager either by  
 Facsimile: (053) 8328 593, E-mail: [Ntombi.Mayekiso@dmre.gov.za](mailto:Ntombi.Mayekiso@dmre.gov.za),  
 Post: Private Bag X 6093, Kimberley, 8300. By hand: DMR Building, 41 Schmidtsdrift Road, Kimberley, 8301

To obtain additional information about the proposed project, please contact the EAP Mrs Mofokeng.

## SITE NOTICE

### APPLICATION FOR AN ENVIRONMENTAL AUTHORIZATION FOR THE PROPOSED ACTIVITIES.

Notice is given for the following application:

1) Environmental authorization application for prospecting.

- **Proponent:** The applicant is PG Vlok Trust.
- **Ref. no:** NC30/5/1/1/2/12991PR
- **Property description:** The proposed prospecting area is over Portion 20 (portion of portion 15) (Lubbeshoop) of the Farm Lanyon Vale 376 in the Hay district. The total extent of the prospecting area is 4449,5397 hectares. (21 SG digital code:
- C03100000000037600020
- **Location:** The property is situated  $\pm$ 45 km south of Douglas.
- **Project description:** The purpose of the application is to obtain the required authorisation from the Department to successfully: undertake geological surveys, test pits and bulk sampling.
- **Process followed - Scoping Report**
- **Activity applied for:** the following activities as listed in terms of NEMA (Act No. 107 of 1998) as amended and EIA Regulations, 2014 was applied for under Activity 19, Listing Notice 2 – GNR 325 of 2014, Activity 20, Listing Notice 1 – GNR 327 of 2014, and Activity 27, Listing 1 – GNR 327 of 2014
- **Minerals applied for:** Diamonds Alluvial & Diamonds in Kimberlite
- **Date submitted:** 23 July 2021
- **Stakeholder involvement:** Stakeholders are invited to register as interested and affected parties and to participate in the application process by identifying issues of concern and suggestions for consideration in the Scoping Report . I&AP's can contact Dera Environmental Consultants for any further information required. Please submit your written comments by mail, fax or e-mail in this 30 day of this notice to:

Mrs. Esna Erasmus of DERA Environmental Consultants  
PO Box 6499 E-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)  
Flamwood Tel: 018 468 5355  
2572 Fax: 018 011 3760  
Cell: 082 895 3516;

- **Date of advertisement:** Friday 4 February 2022

Photo 1



Photo 2

**APPLICATION FOR AN ENVIRONMENTAL AUTHORIZATION FOR THE PROPOSED ACTIVITIES**

Notice is given for the following application:

1) Environmental authorization application for prospecting.

- Proponent: The applicant is PG Vick Trust.
- Ref. no: NC305/11/212991PR.
- Property description: The proposed prospecting area is over Portion 20 (portion of portion 15) (Lubbehoop) of the Farm Lanyen Vloe 376 in the Hay district. The total extent of the prospecting area is 4449,5387 hectares. (21 SG digital code: C0310000000037600620).
- Location: The property is situated ±45 km south of Douglas.
- Project description: The purpose of this application is to obtain the required authorisation from the Department to successfully undertake geological surveys, test pits and bulk sampling.
- Process followed - Scoping Report
- Activity applied for: the following activities as listed in terms of NEMA (Act No. 107 of 1998) as amended and EIA Regulations, 2014 was applied for under Activity 19, Listing Notice 2 – GNR 325 of 2014, Activity 20, Listing Notice 1 – GNR 327 of 2014, and Activity 27, Listing 1 – GNR 327 of 2014.
- Minerals applied for: Diamonds Alluvial & Diamonds in Kimberlite.
- Date submitted: 23 July 2021.
- Stakeholder involvement: Stakeholders are invited to register as interested and affected parties and to participate in the application process by identifying issues of concern and suggestions for consideration in the Scoping Report. ISAP's can contact Diera Environmental Consultants for any further information required. Please submit your written comments by mail, fax or e-mail in this 30 day of this notice to:

Mrs. Eena Erasmus of DERA Environmental Consultants  
 PO Box 6479      E-mail: [dera@deraco.za](mailto:dera@deraco.za)  
 Flamwood      Tel: 018 468 5355  
 2572      Fax: 018 013 3760  
                  Cell: 082 895 3516

• Date of advertisement: Friday 4 February 2022

**GPS Location: S -29.224925°  
 E 23.238971°**

.....

P O Box 6499  
Flamwood  
2572  
Tel: 018-468 5355  
Fax: 018-011 3760  
Cell: 082 895 3516  
E-mail: [dera\\_office@dera.co.za](mailto:dera_office@dera.co.za)

# DERA

## Environmental Consultants

18 January 2022

Department Agriculture, Land Reform and Rural Development and Environmental Affairs  
Head of Department  
02 Harrison Street  
De Beers  
Kimberley  
8301

Attention: Thembisele Mabuza

RE: Scoping Report

Reference Number: NC30/5/1/1/2/12991PR

It is hereby confirmed that PG Vlok Trust has applied for a prospecting right over Portion 20 (portion of portion 15) (Lubbeshoop) of the Farm Lanyon Vale 376, situated in the district of Hay, Northern Cape.

The application was accepted by the Department of Mineral Resources and they have requested that the Department Agriculture, Land Reform and Rural Development (Northern Cape Regional Office) must be consulted about the proposed prospecting right. See attached the Scoping report.

Should you have any questions regarding the above, please call Mrs. Erasmus at 082 895 3516.

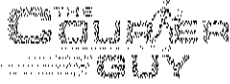
DERA Environmental Consultants can be contacted for any further enquiries.

Yours sincerely



Esna Erasmus  
DERA Environmental Consultants

.....



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We would love to handle your package!

WE OFFER  
TO OUR  
CUSTOMERS  
THE  
BEST  
SERVICES  
AND  
PRICES  
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OUR  
CUSTOMERS  
AND  
OUR  
CUSTOMERS  
AND  
OUR  
CUSTOMERS



NJ98W

DOCK NO	W/CR/NO	CONTAINER NO.	DATE	PARCEL 1	PARCEL 2	WEIGHT	VOLUME	UNIT	ORIG	DEST REFERENCE
DO2KRO	NJ98W		2022-02-22	1	2	0.0096	KLK		KIM	

Sender name	Sender address	Sender phone	Receiver name	Receiver address	Receiver phone
Gerda Els		0832251593	Thembisile Mabuza		0648690976

Country code:   
 Street address: **27 Lewis Street**   
 City: **Wilkoppies**   
 Country: **ZA**   
 Postal code: **8301**

City	Country	Postal code	City	Country	Postal code
Wilkoppies	ZA		Kimberley	ZA	8301

PARCEL NO	DESCRIPTION	WEIGHT	DIMENSIONS
1	Standard flyer	2.0 kg	40.0 cm x 30.0 cm x 8.0 cm

UNUSUALLY COVERED     
 ONLY BACKLASH TAKING FEE   
 BACKLASH VALUE: **0.00**

OLDEN NICHOLAS	RECEIVED BY	THE COURIER GUY
0832251593	DATE	TIME

SERVICE LEVEL  
**Economy (ECO)**

RECEIVED BY	DATE
THE COURIER GUY	
RECEIVED BY	DATE
THE COURIER GUY	



.....

P O Box6499  
Flamwood  
2572  
Tel: 018-468 5355  
Fax: 018-011 3760  
Cell: 082 895 3516  
E-mail: [dera.office@dera.co.za](mailto:dera.office@dera.co.za)

# DERA

## Environmental Consultants

18 January 2022

Department of Water and Sanitation  
28 Central Road  
Beaconsfield  
Kimberley  
8300

Attention: Lethato Mokhoantle

RE: Scoping Report

Reference Number: NC30/5/1/1/2/12991PR

It is hereby confirmed that PG Vlok Trust has applied for a prospecting right over Portion 20 (portion of portion 15) (Lubbeshoop) of the Farm Lanyon Vale 376, situated in the district of Hay, Northern Cape

The application was accepted by the Department of Mineral Resources and they have requested that the Department of Water and Sanitation (Northern Cape Regional Office) must be consulted about the proposed prospecting right. See attached the Scoping report.

Should you have any questions regarding the above, please call Mrs. Erasmus at 082 895 3516.

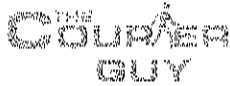
DERA Environmental Consultants can be contacted for any further enquiries.

Yours sincerely



Esna Erasmus  
DERA Environmental Consultants

.....



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We would love to handle your package

021 500 8224 0831 501 500  
021 500 8224 0831 501 500  
021 500 8224



**QJVFC**

002KRO QJVFC 2022-02-22 1 2 0,0096 KLK KIM

Contact name: **Gerda Els**  
Company name:

Contact number: **0832251593**

Contact name: **Lerato Mokhoantle**  
Special number: **0836558312**

Street address: **27 Lewis Street**

Company name: **Department of Water and Sanitation**  
Street address: **28 Central Road**

City: **Wilkoppies**  
City: **Klerksdorp**  
Country: **ZA**

City: **Beaconsfield**  
City: **Kimberley**  
Country: **ZA**

Special instructions: **collect before 16h00**

1	Standard flyer	2,0 kg	40,0 cm x 30,0 cm x 8,0 cm
			0.00

**Economy (ECO)**

CLIENT SIGNATURE  
AND COMPANY

RECEIVED BY  
THE COUPER GUY (PTY) LTD.  
DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

COUPON FOR  
DISCOUNT

CLIENT SIGNATURE  
AND COMPANY

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

**SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION AS  
REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE  
ENVIRONMENTAL SENSITIVITY**

**EIA Reference number:** NC 30/5/1/1/2/12991 PR

**Project name:** PG VLOK TRUST

**Project title:** PORTION 20 ( prt. Of ptn 15) (Lubbeshoop) of the THE FARM LANYON VALE 376

**Date screening report generated:** 09/02/2022 14:45:39

**Applicant:** Petrus Vlok

**Compiler:** DERA

**Compiler signature:**  .....

**Application Category:** Mining|Prospecting rights

## Table of Contents

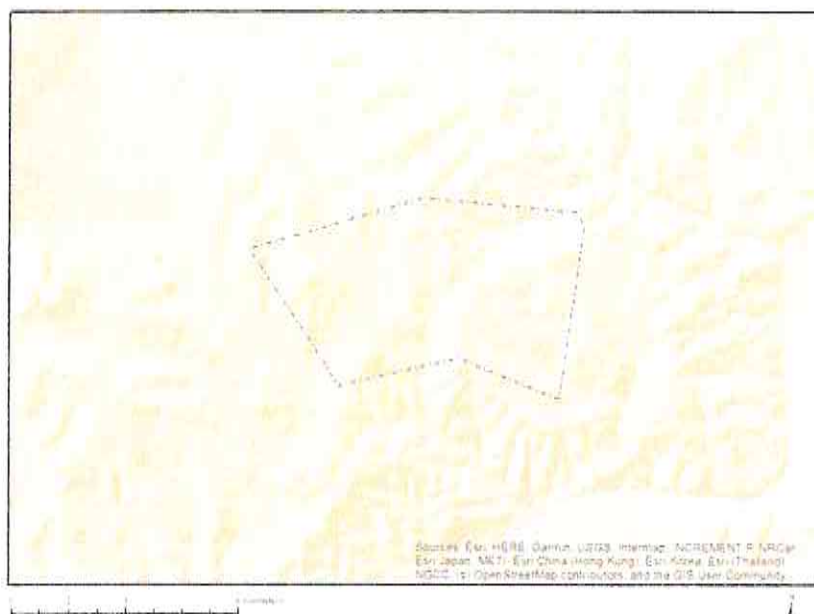
Proposed Project Location .....	3
Orientation map 1: General location .....	3
Map of proposed site and relevant area(s) .....	4
Cadastral details of the proposed site .....	4
Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area .....	4
Environmental Management Frameworks relevant to the application .....	5
Environmental screening results and assessment outcomes .....	5
Relevant development incentives, restrictions, exclusions or prohibitions .....	5
Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones .....	6
Proposed Development Area Environmental Sensitivity .....	6
Specialist assessments identified .....	7
Results of the environmental sensitivity of the proposed area .....	9
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY .....	9
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY .....	10
MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY .....	11
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY .....	12
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY .....	13
MAP OF RELATIVE DEFENCE THEME SENSITIVITY .....	14
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY .....	15
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY .....	16
MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY .....	17

# Proposed Project Location

Orientation map 1: General location



## Map of proposed site and relevant area(s)



## Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	LANYON VALE	376	0	29°17'5.4S	23°10'33.05E	Farm
2		376	20	29°12'53.87S	23°13'51.04E	Farm Portion

Development footprint<sup>1</sup> vertices:  
No development footprint(s) specified.

## Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	12/12/20/1942	Solar PV	Approved	17
2	12/12/20/2645	Solar PV	Approved	15.8
3	14/12/16/3/3/1/484	Solar PV	Approved	13

<sup>1</sup> "development footprint", means the area within the site on which the development will take place and includes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

## Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

## Environmental screening results and assessment outcomes

The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is: **Mining | Prospecting rights.**

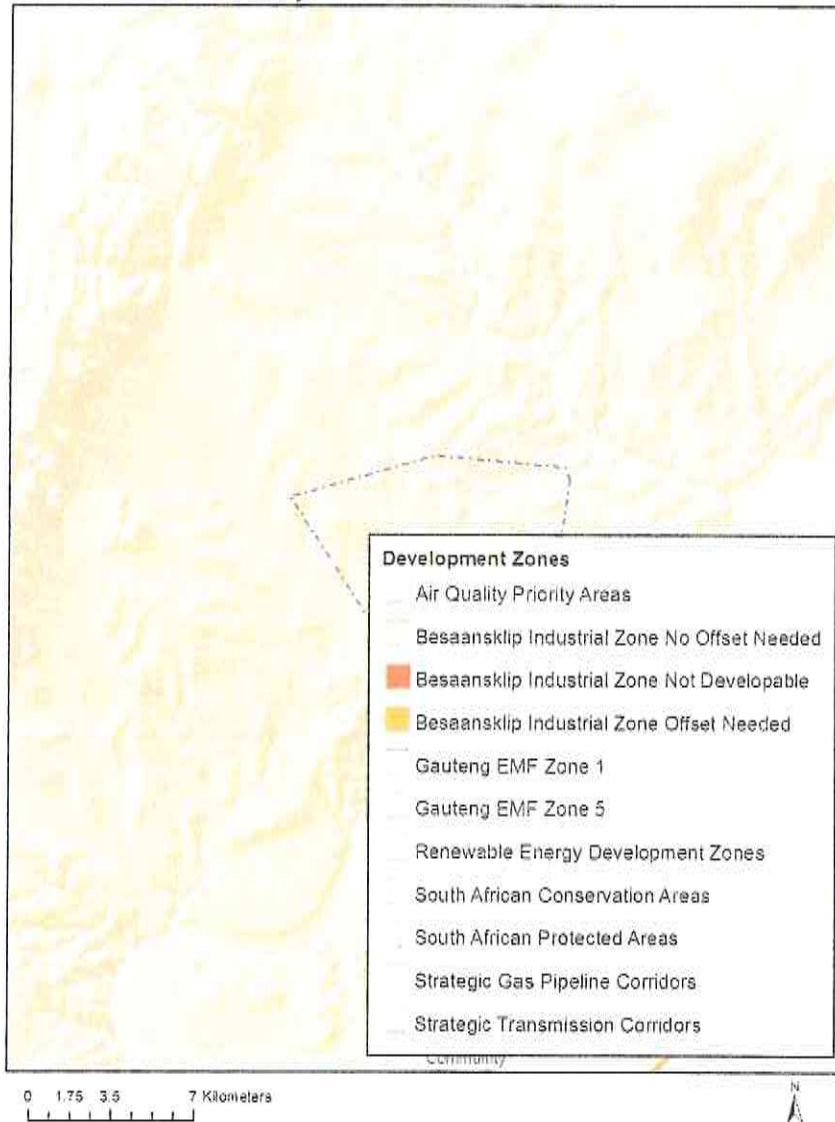
### Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

No intersection with any development zones found.

Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones

**Project Location: PG VLOK TRUST**



**Proposed Development Area Environmental Sensitivity**

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			X	
Animal Species Theme			X	



Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme			X	
Defence Theme				X
Paleontology Theme		X		
Plant Species Theme				X
Terrestrial Biodiversity Theme	X			

### Specialist assessments identified

Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

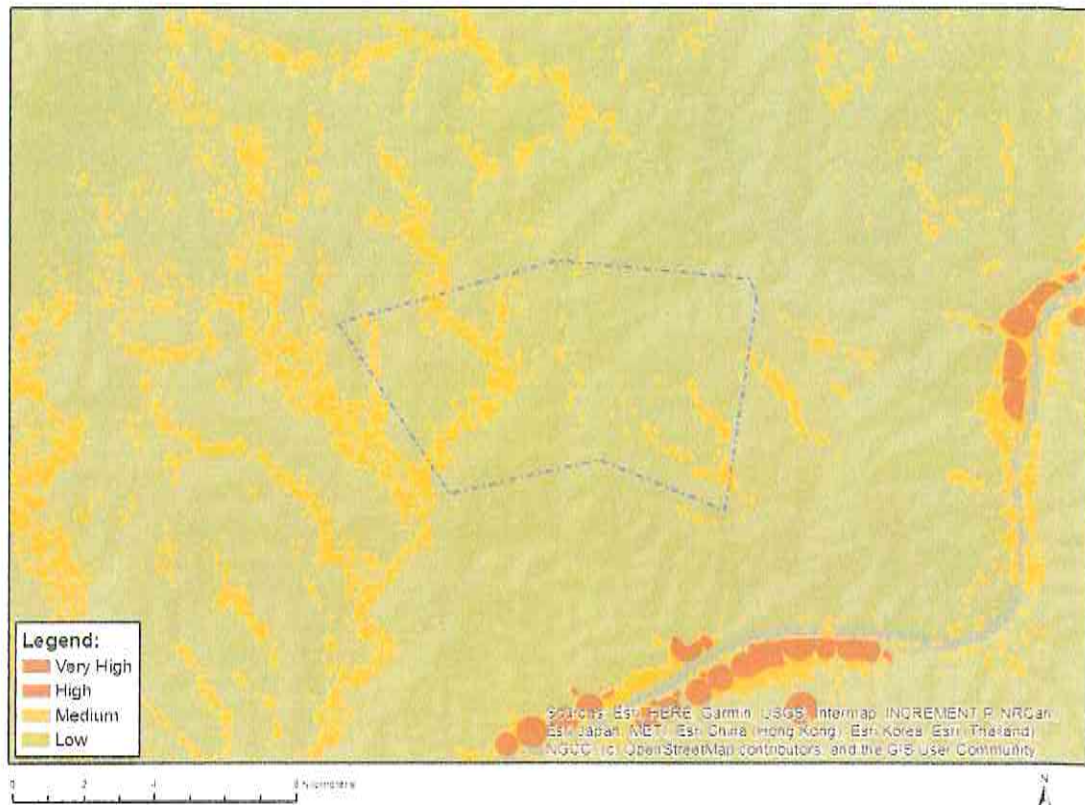
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20General%20Agriculture%20Assessment%20Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Agriculture Assessment Protocols.pdf</a>
2	Archaeological and Cultural Heritage Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20General%20Requirement%20Assessment%20Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf</a>
3	Palaeontology Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20General%20Requirement%20Assessment%20Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf</a>
4	Terrestrial Biodiversity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20Terrestrial%20Biodiversity%20Assessment%20Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Terrestrial Biodiversity Assessment Protocols.pdf</a>
5	Aquatic Biodiversity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20Aquatic%20Biodiversity%20Assessment%20Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Aquatic Biodiversity Assessment Protocols.pdf</a>
6	Noise Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20Noise%20Impacts%20Assessment%20Protocol.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Noise Impacts Assessment Protocol.pdf</a>

	ment	
7	Radioactivity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20General%20Requirement%20Assessment%20Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf</a>
8	Plant Species Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20Plant%20Species%20Assessment%20Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Plant Species Assessment Protocols.pdf</a>
9	Animal Species Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted%20Animal%20Species%20Assessment%20Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Animal Species Assessment Protocols.pdf</a>

## Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.

### MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

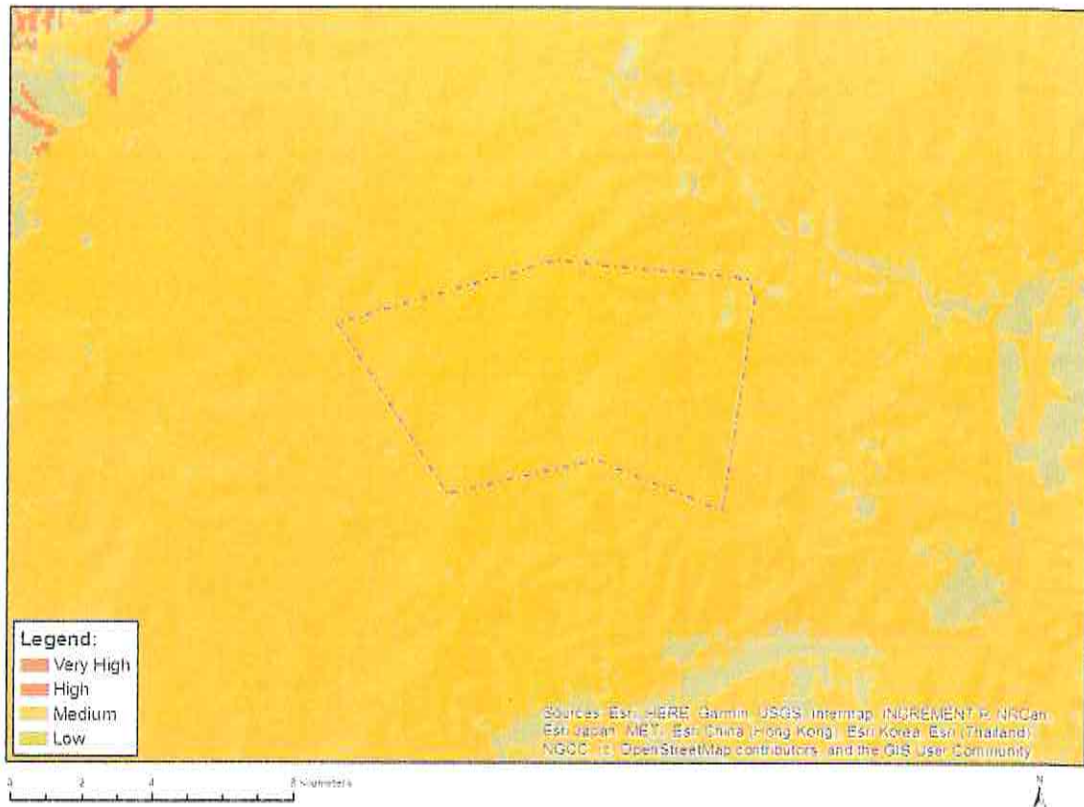


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

#### Sensitivity Features:

Sensitivity	Feature(s)
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

## MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



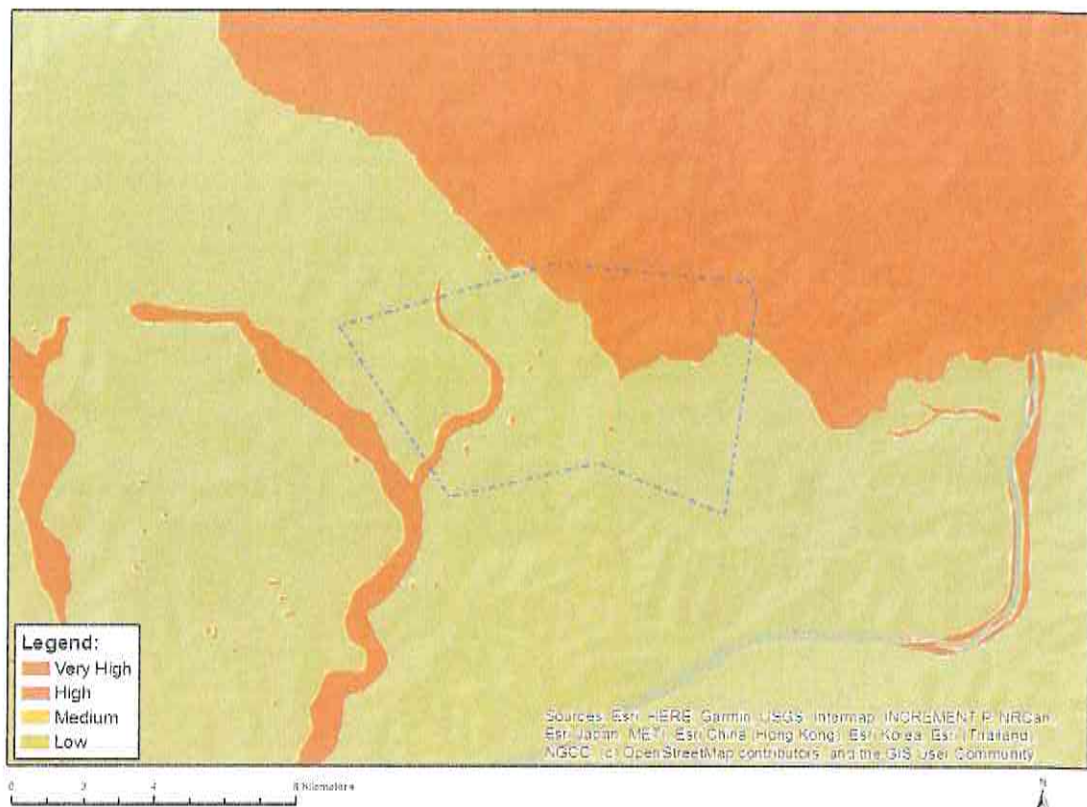
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at [eiadatarequests@sanbi.org.za](mailto:eiadatarequests@sanbi.org.za) listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

### Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Medium	Aves-Neotis ludwigii

## MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

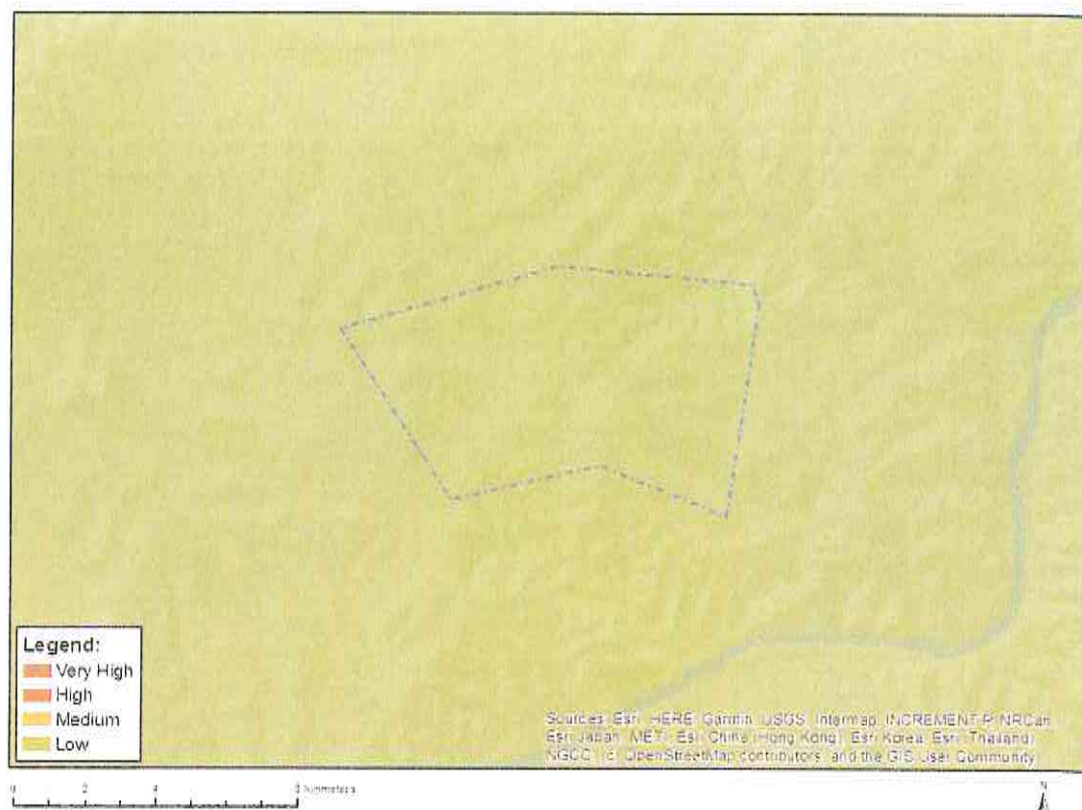


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

### Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands and Estuaries
Very High	Freshwater ecosystem priority area quinary catchments

## MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

### Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

## MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

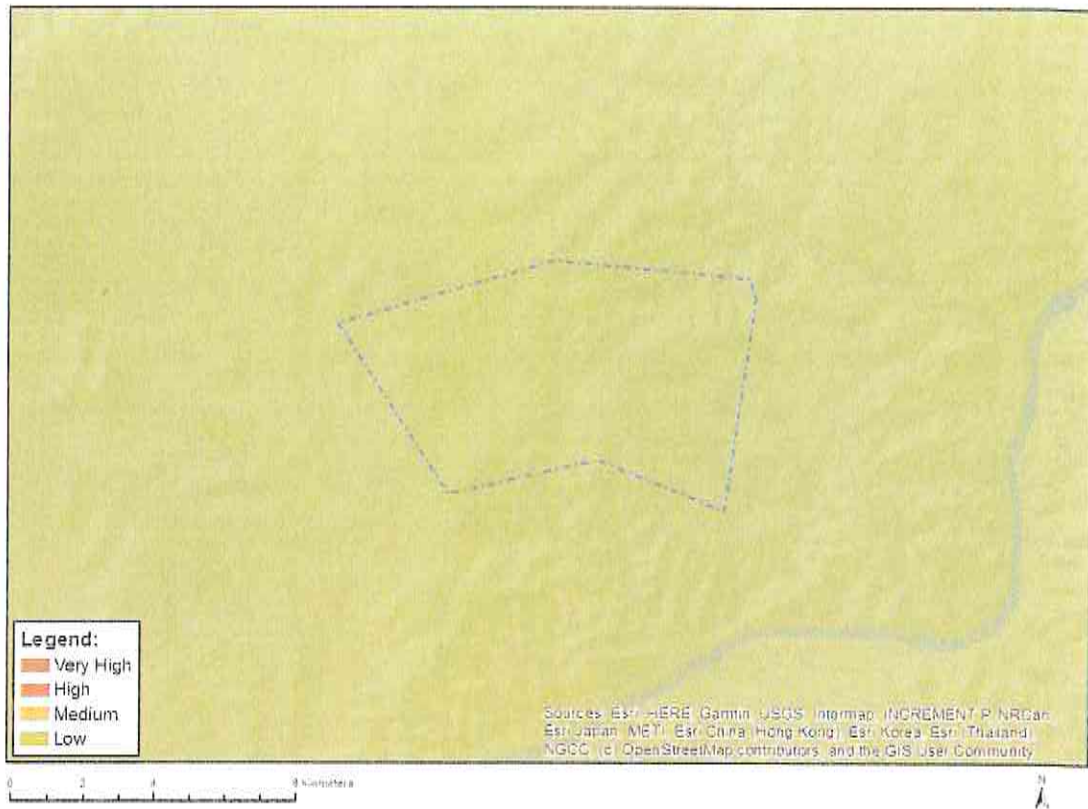


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

### Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Medium	Between 8 and 15 km of other civil aviation aerodrome

## MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

### Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity



## MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

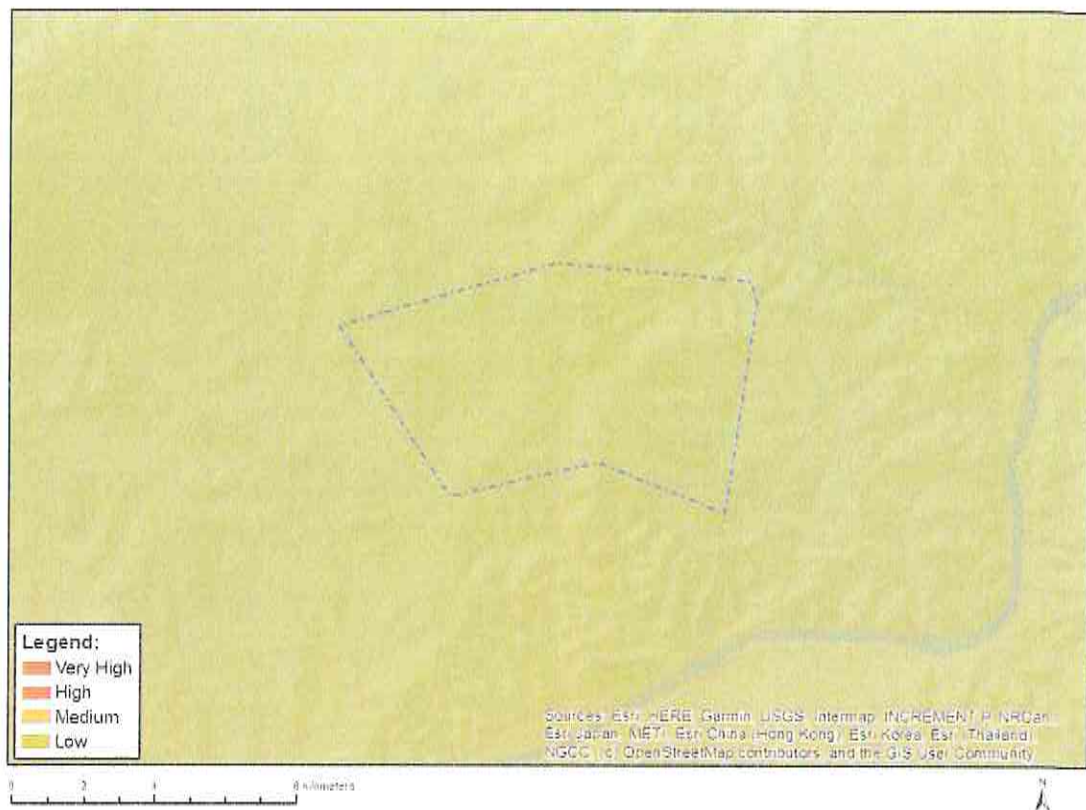


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

### Sensitivity Features:

Sensitivity	Feature(s)
High	Features with a High paleontological sensitivity
Medium	Features with a Medium paleontological sensitivity

## MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at [eiadatarequests@sanbi.org.za](mailto:eiadatarequests@sanbi.org.za) listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

### Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

**Sensitivity Features:**

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Critical biodiversisty area 2
Very High	Ecological support area
Very High	FEPA Subcatchments



**Provisional Statement of Water Usage  
Voorlopige Staat van Watergebruik**



**The Applicant / Die Applikant**

MR AC VLOK  
ID 4905225005087

**Registration No / Registrasie Nr**

25003120

**at Address / by Adres**

PO BOX 87  
GRIEKWASTAD  
8365

Tel No : 053 3540833

**of the Farm / van die Plaas**

LANYON VALE No 376 - Prt/Ged 9 - HAY RD

Quaternary / Kwaternêr	WMA / WBG	Province / Provinsie
D1/C	FRONTIER PROVINCE	NORTHERN CAPE

**is Taking a volume of water annually - S.21(a)  
Neem 'n volume water jaarliks - S.21(a)**

5500 m<sup>3</sup>

**by means of / by wyse van**

Name / Naam	Source / Bron	Volume (m <sup>3</sup> )	Location / Ligging
	NO NAME	5500	308

**and is Storing this water - S.21(b)  
en Stoor hierdie water - S.21(b)**

Not Available / Nie Beskikbaar

**of which the following are Dam Safety dam(s) - S.118(3)(a)  
waarvan die volgende Damveiligheids damme is - S.118(3)(a)**

Not Available / Nie Beskikbaar

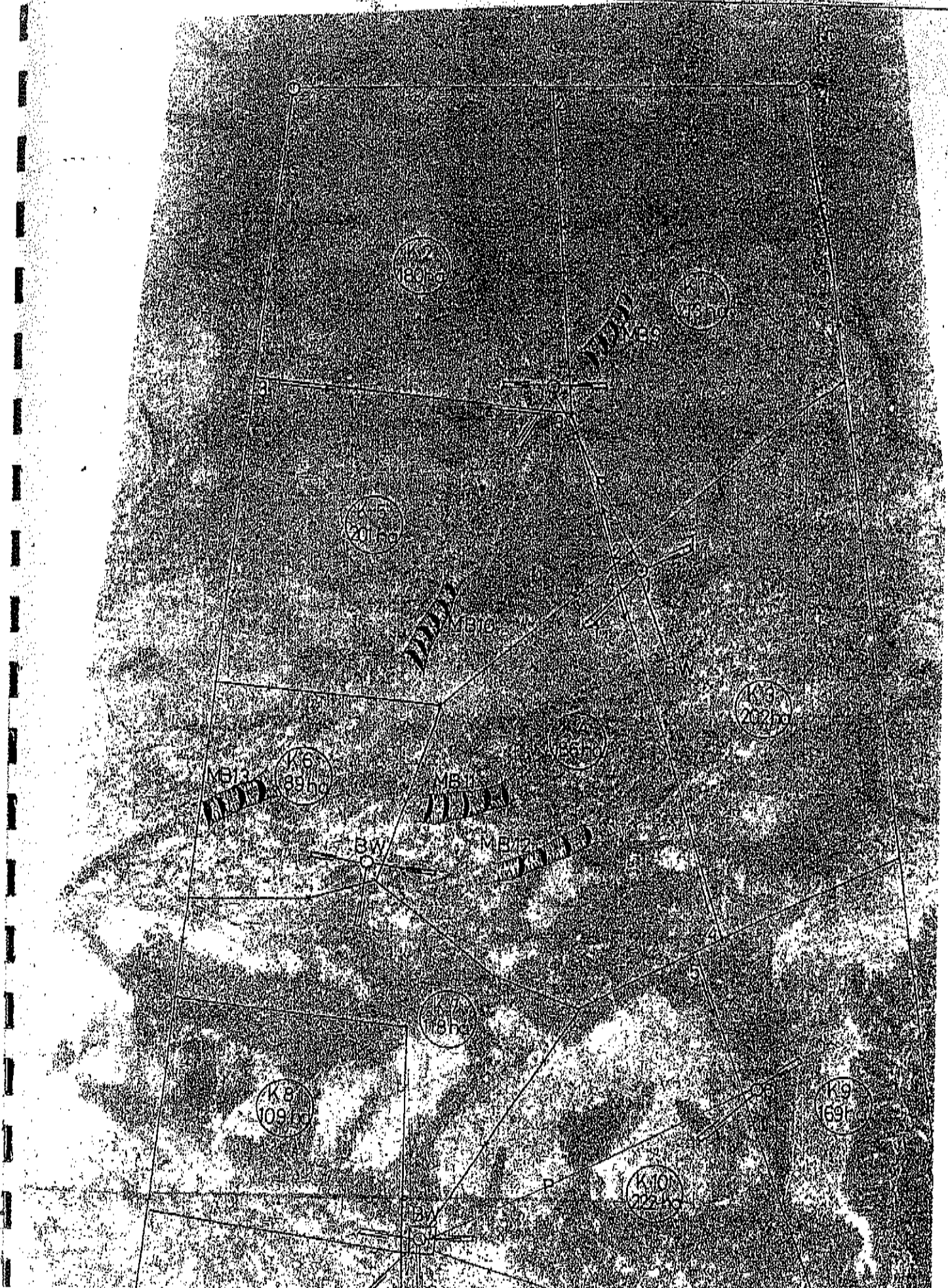
**to Irrigate annually / om jaarliks te Besproei**

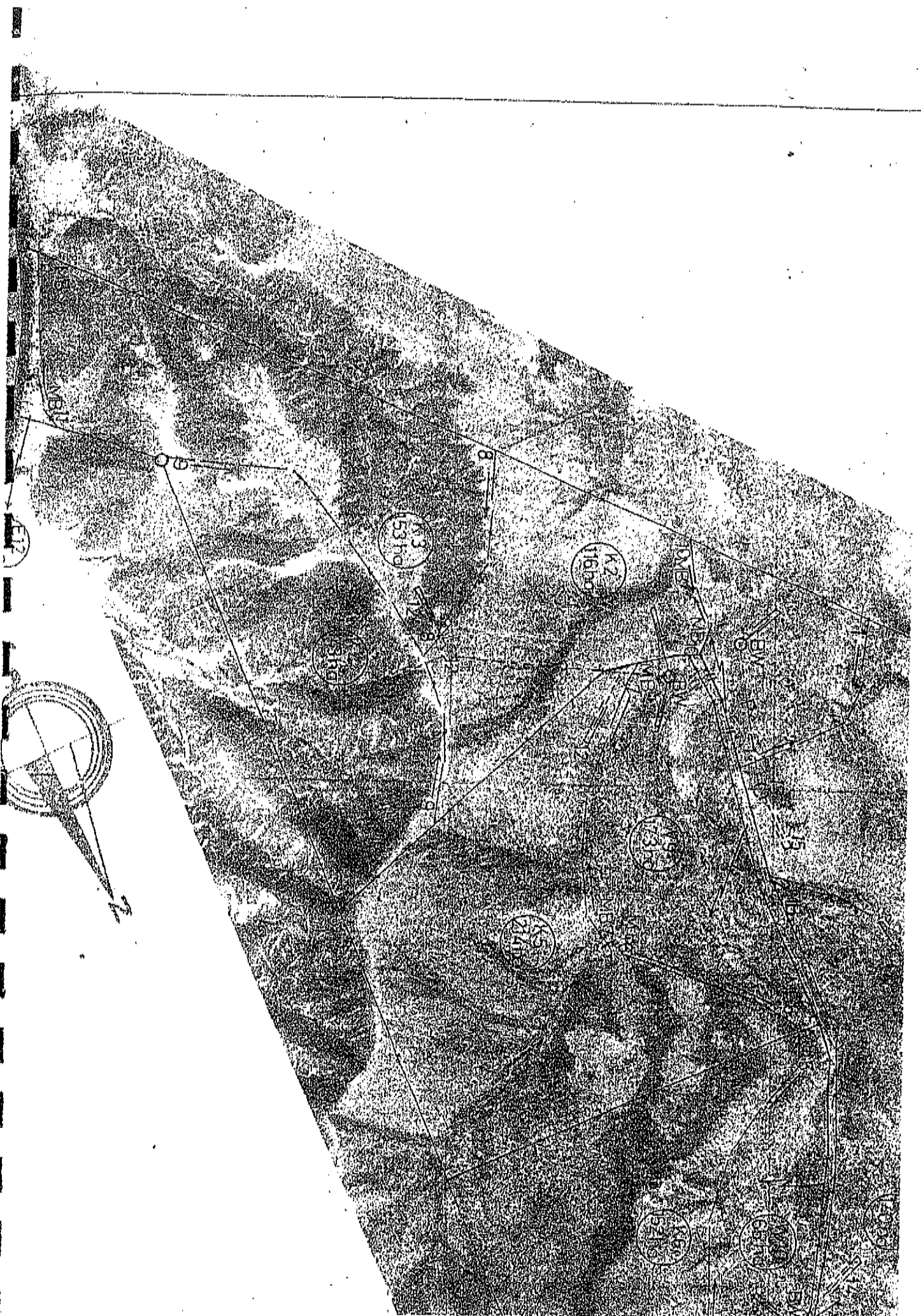
1 ha

**of the following Crops / van die volgende Gewasse**

Crop / Gewas	Area (ha)	Plant Date (m/d)	Use / Verbruik mm	System / Stelsel
VEGETABLES				FLOOD IRRIGATION

The information contained in this document does not constitute an entitlement to a water usage right.  
Die inligting in hierdie dokument verteenwoordig nie 'n besittingsreg op 'n watergebruik nie.





(053)-8314125

(053) 831-5682

Greend@dwaf.ncape.gov.za



D. C. Green

25013002

DEPARTMENT: WATER AFFAIRS AND FORESTRY  
NORTHERN CAPE REGION/ NOORDKAAP STREEK  
PO BOX X6101  
KIMBERLEY  
8300

Tel: (053) 8314125

Fax: (053) 8314534

Mnr. AC. Vlok  
Posbus 87  
Griekwastad  
8365

Geagte Mnr

**REGISTRASIE VAN WATERGEBRUIK: REGISTRASIE SERTIFIKAAT**

Dit is aangenaam vir die Departement van Waterwese en Bosbou om u Registrasie sertifikaat vir watergebruik wat in terme van Regulasie R1352, soos gepubliseer in die Staatskoerant, gedateer 12 Oktober 1999, aan u uit te reik.

Vind ingesluit 'n bevestigingsdokument wat die inligting bevat soos wat u dit in u aansoekvorm aan die Departement verskaf het.

U word versoek om die Departement van Waterwese en Bosbou binne sestig dae (60 dae) vanaf die datum van hierdie skrywe in kennis te stel van enige foutiewe inligting in die Registrasiesertifikaat of Bevestigingsdokument. Indien u nie die foutiewe inligting binne sestig dae (60 dae) aan die Departement uitwys nie, sal aanvaar word dat die inligting korrek is.

Rig asseblief alle skrywes aan:

Die Streekdirekteur: Noord Kaap  
Departement van Waterwese en Bosbou  
Privaatsak X6101  
KIMBERLEY  
8300

NOTA: Vermeld asseblief u Registrasienommer in alle korrespondensie met die Departement.

Die uwe

*D. Green*  
STREEKDIREKTEUR (NOORD KAAP)  
2002-06-20  
DCG

*Viva water pure and clean! • Viva forests rich and green!*

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

Taking water from a water resource in terms of Section 21(a) of the National  
Water Act

Sector: AGRICULTURE: IRRIGATION

Water resource: ORANGE RIVER

Source: SCHEME

Total volume taken per year is 40000.00 cubic metres (effective from 1965-11-30)

Water use start date: 1965-11-30

Water Use No.: 2

*Stopdroai*

**DISCLAIMER :**

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department and the information is valid as at the date of issue.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

25013002

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

MR AC VLOK  
4905225005004  
PO BOX 87  
GRIEKWASTAD  
8365

To use water on the following property :-

LANYON VALE FARM NO. 376 PORTION NO 14

T1407/1965


Water Management Area :-

LOWER ORANGE

For the water use(s) of :-

Taking water from a water resource in terms of Section 21(a) of the National Water Act

(See attached Annexure)

  
Regional Director

DEPT. VAN WATERWESSE EN BOSBOU
NOORDKAAPSTREEK Privaatsak/Private Bag X6101
20 JUN 2002
KIMBERLEY 8300 NORTHERN CAPE REGION
DEPT. WATER AFFAIRS & FORESTRY
Date stamp of issuing office

Date 20/06/2002

Northern Cape Region

DISCLAIMER :

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department and the information is valid as at the date of issue.