

the denc

Department: Environment & Nature Conservation NORTHERN CAPE PROVINCE REPUBLIC OF SOUTH AFRICA

Private Bag X6102, Kimberley, 8300, Metlife Towers, T-Floor, Tel: 053 807 7300, Fax: 053 807 7328

Project applicant:	The Lair Trust		
Business reg. no. /ID. no.:			
Contact person:	Louise Fox		
Postal address:	PO Box 251, Augrabies, 8874		
Telephone:	(054) 451 7270	Fax:	(054) 451 7284
E-mail:	thelair@lantic.net		

Prepared by:

Environmental Assessment Practitioner/Firm:	EnviroAfrica CC		
Business reg. no. /ID. no.:	CK 97 46008/23		
Contact person:	Emile Esquire/Bernard de Witt		
Postal address:	P.O. Box. 5367, Helderberg, 7135		
Telephone:	021 851 1616	Cell: Fax:	
E-mail:	emile@enviroafrica.co.za		086 512 0154

	(For official use only)
File Reference Number:	
Application Number:	
Date Received:	

Basic Assessment Report in terms of the Environmental Impact Assessment Regulations, 2014, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

Kindly note that:

- This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
- This report format is current as of 08 December 2014. It is the responsibility of the applicant to
 ascertain whether subsequent versions of the form have been published or produced by the
 competent authority
- The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
- Where applicable tick the boxes that are applicable in the report.
- An incomplete report may be returned to the applicant for revision.
- The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
- This report must be handed in at offices of the relevant competent authority as determined by each authority.
- No faxed or e-mailed reports will be accepted.
- The signature of the EAP on the report must be an original signature.
- The report must be compiled by an independent environmental assessment practitioner.
- Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
- A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
- Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.

SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section? <u>YES</u> NO If YES, please complete the form entitled "Details of specialist and declaration of interest" for the specialist appointed and attach in Appendix I.

ACTIVITY DESCRIPTION

a) Describe the project associated with the listed activities applied for

The construction of infrastructure for the expansion of a vineyard on Portion 13 of Orange Falls Farm no 16, Augrabies Falls Way has commenced. The soil in which the grapes are planted gets ripped in order to create favourable conditions; no soil gets removed by this action. The 10ha area that is developed is done on previously grazed fields. The activity commenced in different time frames: 5ha were developed in 2010; 2.5ha were developed in 2012 and 2.5ha were developed in 2016. During this development there were no new roads constructed. The warehouse (packing shed) in which the grapes gets processed and packed was built in 2001. The packing shed has a footprint of approximately 810m². The grapes get packed in cartons and shipped in containers to other countries. An area of more than 10ha has been cleared of natural vegetation, although the site had previously been used for livestock grazing. The natural vegetation on site (SANBI BGIS) consists of Bushmanland Arid Grassland (*least threatened*). The site is approximately 9km north-west of Augrabies. (see figures 1 & 2 below). The site co-ordinates are **28°39'30.16"S, 20°20'28.81"E.**



Figure 1: Google Earth aerial image showing the location of the proposed site (red dot) and the surrounding area.

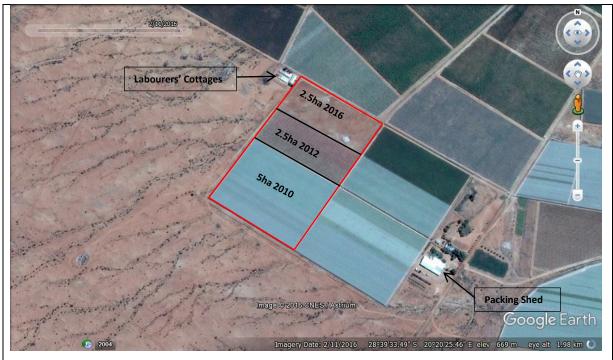


Figure 2: Google Earth aerial photo indicating the affected farm layout and development in each timeframe. The site is indicated by the red rectangle.

b) Provide a detailed description of the listed activities associated with the project as applied for

Listed activity as described in GN 544, 545 and 546	Description of project activity
Government Notice No. R. 544 Activity No(s): (Listing Notice 1 of 2010)	
56 - Phased Activity for all the activities listed in this Schedule which commenced on or after the effective date of this Schedule, where any one phase of the activity may be below a threshold but where a combination of the phases, including expansions or extensions, will exceed a specific threshold; - Excluding the following activities listed in this Schedule; 2;11(i)-(vii);16(i)-(iv);17;19;20;22(i) &22(ii); 25;26;27;28;39;45(i)-(iv) 7 (vii)-(xv);50;51;53; and 54.	An area of approximately 10ha was cleared of vegetation to allow for the construction of infrastructure for the expansion of vineyards. The 10ha area that is developed is done on previously grazed fields. The activity commenced in different time frames: 5ha were developed in 2010; 2.5ha were developed in 2012 and 2.5ha were developed in 2016. The vegetation type on site is Bushmanland Arid Grassland (<i>Least</i> <i>Threatened</i> (SANBI BGIS)).
Government Notice No. R. 546 Activity No(s): (Listing Notice 3 of 2010)	
12 - The clearance of an area of 300 square metres or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation.	An area of approximately 10ha was cleared of vegetation to allow for the construction of infrastructure for the expansion of vineyards. The 10ha area that is developed is done on

	previously grazed fields. The activity commenced in different time frames: 5ha were developed in 2010; 2.5ha were developed in 2012 and 2.5ha were developed in 2016. The vegetation type on site is Bushmanland Arid Grassland (<i>Least</i> <i>Threatened</i>) (SANBI BGIS).
Government Notice No. R. 983 Activity No(s): (Listing Notice 1 of 2014)	
 27 - The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for; (i) the undertaking of a linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan. 	An area of approximately 10ha was cleared of vegetation to allow for the construction of infrastructure for the expansion of vineyards. The 10ha area that is developed is done on previously grazed fields. The activity commenced in different time frames: 5ha were developed in 2010; 2.5ha were developed in 2012 and 2.5ha were developed in 2016. The vegetation type on site is Bushmanland Arid Grassland (Least Threatened (SANBI BGIS)).
67 - Phased activities for all activities listed in this Notice, which commenced on or after the effective date of this Notice; or similarly listed in any of the previous NEMA notices, which commenced on or after the effective date of such previous NEMA Notices; where any phase of the activity may be below a threshold but where a combination of the phases, including expansions or extensions, will exceed a specified threshold; excluding the following activities listed in this Notice; 17(i)(a-d); 17(ii)(a-d); 17(iii)(a-d); 17(iv)(a-d); 17(v)(a-d); 20; 21; 22; 24(i); 29; 30; 31; 32; 34;	An area of approximately 10ha was cleared of vegetation to allow for the construction of infrastructure for the expansion of vineyards. The 10ha area that is developed is done on previously grazed fields. The activity commenced in different time frames: 5ha were developed in 2010; 2.5ha were developed in 2012 and 2.5ha were developed in 2016. The vegetation type on site is Bushmanland Arid Grassland (Least Threatened (SANBI BGIS)).
54(i)(a-d); 54(ii)(a-d); 54(iii)(a-d); 54(iv)(a-d); 54(v)(a-d); 55; 61; 62; 64; and 65.	
Government Notice No. R. 985 Activity No(s): (Listing Notice 3 of 2014)	
12 - The clearance of an area of 300 square metres or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation.	An area of approximately 10ha was cleared of vegetation to allow for the construction of infrastructure for the expansion of vineyards. The 10ha area that is developed is done on previously grazed fields. The activity commenced in different time frames: 5ha were developed in 2010; 2.5ha were developed in 2012 and 2.5ha were developed in 2016. The vegetation type on site is Bushmanland Arid Grassland (Least Threatened (SANBI BGIS)).

• FEASIBLE AND REASONABLE ALTERNATIVES

"alternatives", in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

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

Describe alternatives that are considered in this application as required by Appendix 1 (3)(h), Regulation 2014. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity (NOT PROJECT) could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed.

The determination of whether site or activity (including different processes, etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the, competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

a) Site alternatives

The preferred site alternative is **alternative 1** on the demarcated site on figures 2, 3 & 4.

The only other reasonable site alternative for the applicant would have been alternative 2 prior to commencement. However, this alternative would have resulted in the clearing of indigenous vegetation on an undeveloped part of the property. Given that the area on which alternative 1 is located has previously been grazed by livestock means that the expansion and construction of vineyards (grape production) on the preferred site causes the least harm to the environment. The town of Augrabies is a known agricultural area, with grape farmers in the surrounding area (along the Orange River).

Alternative 1 (preferred alternative)			
		Long (DDMMSS)	
The expansion and development of agricultural land for the establishment of vineyards with a development footprint of 10ha on Portion 13 of Orange Falls Farm no 16, Augrabies Falls Way, Augrabies.	28° 39' 30.16"	20° 20' 28.81"	
This alternative entails the clearance of indigenous vegetation on site, through different stages.			



Figure 3: A Google-Earth view of the alternatives.

The soil in which the grapes are planted gets ripped in order to create favorable conditions; no soil gets removed by this action. The 10ha area that is developed is done on previously grazed fields. The activity commenced in different time frames: 5ha were developed in 2010; 2.5ha were developed in 2012 and 2.5ha were developed in 2016. During this development there were no new roads constructed. The warehouse (packing shed) in which the grapes gets processed and packed was built in 2001. The packing shed has a footprint of approximately 810m². The grapes get packed in cartons and shipped in containers to other countries. An area of more than 10ha has been cleared of natural vegetation, although the site had previously been used for livestock grazing.

This option was considered the most feasible and reasonable alternative for the applicant due to the fact that the site was located next to existing vineyards, on land that has previously been used for grazing by livestock farming on the property.

This option is the most feasible because of its location relative to the other already developed land on the farm. This location of alternative 1 is more cost effective for irrigation purposes as well as from the perspective of the worker houses. For drainage purposes, the same ditch as the developed part can be used and just extended, whereas in alternative 2 a new drainage ditch will be necessary.

The construction of infrastructure for the expansion of vineyards had a low negative impact on the natural vegetation, without mitigation. According to the botanical assessment (appendix D1) it is unlikely that the development would have had any significant impact on botanical features and is unlikely that the development would have been disallowed on the basis of botanical issues. The EMPr will be implemented to manage and mitigate any negative environmental impacts.

Alternative 2DescriptionLat
(DDMMSS)Long
(DDMMSS)This alternative entails the establishment of 10ha of grape vineyards
on Portion 13 of Orange Falls Farm no 16, Augrabies Falls Way,
Augrabies. This option will be located on the south-eastern part of the
property and adjacent to the existing vineyards on the property. The
co-ordinates for this alternative is 28°39'44.18"S20°20'26.53"E.28°39'44.18"
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S<b

Alt 1 Alt 2 High Percent Balasty Pathon Concernent			
Figure 4: Google-Earth view of the alternatives.			
However, this site is considered the least feasible or reasonable to the			
applicant due to the following:			
• The location of this proposed alternative does not favour the establishment of vineyards with the least environmental			
impacts.			
• A new draining ditch will be needed and the more south you			
move on the property the more uneven the surface from a			
topographical view, therefore a more expensive development than alternative 1.			
 This alternative might possibly cross some drainage lines on the property. 			
 The site is relatively steep compared to the site characteristics of alternative 1. 			
• Given that the vineyards as identified in alternative 1 had			
already commenced, the impact of constructing the			
additional 10ha on the proposed site could be avoided.			
• The site/location of this alternative is not considered to be			
the best practicable environmental option.			
Alternative 3	1		
Description	Lat (DDMMSS)	Long (DDMMSS)	
N/A	, í	, , , , , , , , , , , , , , , , , , ,	

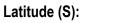
In the case of linear activities:

Alternative:

Alternative S1 (preferred)

- Starting point of the activity •
- Middle/Additional point of the activity •
- End point of the activity •

- Alternative S2 (if any)
 Starting point of the activity
 Middle/Additional point of the activity
- End point of the activity •



Longitude (E):

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

In the case of an area being under application, please provide the co-ordinates of the corners of the site as indicated on the lay-out map provided in Appendix A of this form.

b) Lay-out alternatives

Alternative 1 (preferred alternative)				
Description	Lat (DDMMSS) Long			
	(DDMMSS)			
Please refer to the location alternatives described above a Alternative 1 and Alternative 2.	as			
Alternative 2				
Description	Lat (DDMMSS) Long			
	(DDMMSS)			
Alternative 3				
Description	Lat (DDMMSS) Long (DDMMSS)			

c) Technology alternatives

No technology alternatives were considered prior to development (the vineyards has already been established). However, drip irrigation will be implemented on the farm in order to use water more efficiently.

Alternative 1 (preferred alternative)		
	Alternative 2	
	Alternative 3	

d) Other alternatives (e.g. scheduling, demand, input, scale and design alternatives)

Alternative 1 (preferred alternative)				
		Alternative 2	·	·
		Alternative 3		

e) No-go alternative

This would mean that no development would take place and the proposed site will remain as is (degraded).

According to the Kai !Garib Municipality IDP 2014, the agricultural sector is still the main economic sector who made the biggest contribution (51.8 %) to the economy of Kai !Garib in 2010. The Agriculture sector is also a major employer in the Municipality, providing 66.5% of all formal employment. It is also the sector with the largest potential for economic growth. The commercial farmers farm especially with grapes for export, raisins and wine, while citrus types of fruit are also becoming more prevalent in the area.

The capital value on completion of the activity (establishment of vineyards and grape production) as well as the expected yearly income and value of the employment opportunities would not be achieved. Although this option would result in no potential negative environmental impacts, the significant social benefits from implementing the activity would not be achieved.

The no-go option would only have been recommended if it were found that the proposed activities on this site or in this area might potentially cause substantial detrimental harm to the surrounding environment.

The No-Development option would therefore represent a lost opportunity for Augrabies and the local economy. This would represent a negative social cost.

The No-Development option would therefore represent a significant missed opportunity and is therefore not considered to be the most feasible or reasonable alternative.

Paragraphs 3 – 13 below should be completed for each alternative.

PHYSICAL SIZE OF THE ACTIVITY

a) Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:

Alternative A1 (preferred activity alternative) Alternative A2 (if any) Alternative A3 (if any)

or, for linear activities:

Alternative:

Alternative A1 (preferred activity alternative) Alternative A2 (if any) Alternative A3 (if any)

10.8ha
10ha

Size of the activity:

m
m
m

Size of the site/servitude:

b) Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

Alternative:

Alternative A1 (preferred activity alternative)	m ²
Alternative A2 (if any)	m ²
Alternative A3 (if any)	m ²

m²

SITE ACCESS

Does ready access to the site exist? If NO, what is the distance over which a new access road will be built

YES	NO
	m

Describe the type of access road planned:

N/A. No new roads were constructed or planned. Existing gravel roads on the farm will be used to gain access to and from the site. The site is situated next to established vineyards, with gravel access roads.

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

LOCALITY MAP

An A3 locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.). The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- indication of all the alternatives identified;
- closest town(s;)
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow;
- a legend; and
- locality GPS co-ordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection).

LAYOUT/ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

- the property boundaries and numbers of all the properties within 50 metres of the site;
- the current land use as well as the land use zoning of the site;
- the current land use as well as the land use zoning each of the properties adjoining the site or sites;
- the exact position of each listed activity applied for (including alternatives);
- servitude(s) indicating the purpose of the servitude;
- a legend; and

• a north arrow.

SENSITIVITY MAP

The layout/route plan as indicated above must be overlain with a sensitivity map that indicates all the sensitive areas associated with the site, including, but not limited to:

- watercourses;
- the 1:100 year flood line (where available or where it is required by DWS);
- ridges;
- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species); and
- critical biodiversity areas.

The sensitivity map must also cover areas within 100m of the site and must be attached in Appendix A.

• SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this report. It must be supplemented with additional photographs of relevant features on the site, if applicable.

FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of at least 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

ACTIVITY MOTIVATION

Motivate and explain the need and desirability of the activity (including demand for the activity):

 Is the activity permitted in terms of the property's existing land use rights? 	YES	NO	Please explain		
Yes, the applicant bought the farm with the aim of developing/establishing vineyards on the farm. The farm is zoned for Agriculture and is being used for agricultural purpose.					
Will the activity be in line with the following?					
(a) Provincial Spatial Development Framework (PSDF) YES NO Pleaterpla					
The Northern Cape Provincial Spatial Development Framework (PSDF) recognises the agricultural sector as a key economic sector and that the growth thereof can rejuvenate other sectors of the economy. The Northern Cape Spatial Development Framework (NCSDF) aims to ensure the effective utilisation of land and resources. The NCSDF also serves to enhance the future of the Northern Cape and its people by ensuring that:					

1. All land-uses allow people to live with dignity and improve the integrity of the environment.

- 2. Innovative management and technology is used to balance resource use with the carrying capacity of the environment.
- 3. The comparative and competitive advantages in the province are developed and utilised sustainably.

The NCSDF therefore emphasises development that is ecologically sustainable in the long-term. The agricultural activities on site will advance the objectives of the NCSDF, specifically the utilisation of comparative advantages and improved quality of life (through job creation). The role of The Lair Trust therefore is to ensure that this development is undertaken in the most effective and sustainable manner possible.

(b) Urban edge / Edge of Built environment for the area	YES	NO	Please explain
---	-----	----	-------------------

The site is located outside the urban edge and form part of an existing agricultural area along the Orange River. There are intensive agricultural practises surrounding the site.

(c) Integrated Development Plan (II Development Framework (SDF) Municipality (e.g. would the approval compromise the integrity of the exis credible municipal IDP and SDF?).	of the Local of this application	YES	NO	Please explain
--	----------------------------------	-----	----	-------------------

According to the draft IDP of Kai Garib the agricultural sector is still the main economic sector who made the biggest contribution (51.8 %) to the economy of Kai! Garib in 2010. The Agriculture sector is also a major employer in the Municipality, providing 66.5% of all formal employment. According to Statistics South Africa (Census 2011) about 399 of the households work on crops only; 1382 on livestock only; 222 on mix farming and 69 on other farming methods. It is also the sector with the largest potential for economic growth. The commercial farmers farm especially with grapes for export, raisins and wine, while citrus types of fruit are also becoming more prevalent in the area.

The expansion and development of agricultural land on Portion 13 of Orange Farm No. 16, Augrabies Falls Way, is not considered to have a negative impact on the Municipality's IDP and SDF.

(d) Approved Structure Plan of the Municipality	YES	NO	Please explain
---	-----	----	-------------------

The activity will have no impact on the Municipality's SDF. The ZF Mgcawu DM IDP places emphasis on infrastructure improvements and economic growth. However, no formal Spatial Development Framework (SDF) for some LM's and ZFMDM has been approved but we can make inferences from founding principles in the IDP of ZFMDM that they do promote the growth of the agricultural sector.

The ZF Mgcawu Environmental Management Framework highlights the varied landscape of the area which provides a unique and special character to the area which has the potential to contribute to a variety of local and international tourism opportunities, especially if scenic routes are developed that takes these landscapes into account. The site and the surrounding area is characterised by agricultural activities, with grape vineyards along the Orange River. The Orange River provides a significant source of water that is available for irrigation and the low population density results in a

(f) Any other Plans (e.g. Guide Plan)	YES	NO	Please explain
N/A	•		
Is the land use (associated with the activity being applied for) considered within the timeframe intended by the existing approved SDF agreed to by the relevant environmental authority (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)?	YES	NO	Please explain
The expansion and development of agricultural land on Portion Augrabies Falls Way, is in line with the zoning of the property. The characterised by agricultural activities, with grape vineyards along River provides a significant source of water that is available for ir density results in a regime where even though it is an arid area, generally high.	site and the the Orange rigation and	surround River. The low	ing area i he Orang populatio
According to the Kai !Garib Municipality IDP 2014, the agricultural sector who made the biggest contribution (51.8 %) to the econor Agriculture sector is also a major employer in the Municipality, employment. It is also the sector with the largest potential for ecc armers farm especially with grapes for export, raisins and wine, who becoming more prevalent in the area.	my of Kai !(providing 6 nomic growt	Garib in 6.5% of :h. The c	2010. The all forma
 Does the community/area need the activity and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.) 	YES	NO	
associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local	surrounding die table gra vity, by prov great adva . The develo	farmers I ape harve iding app ntage to pment gir	est seaso proximatel the sma ves peopl
 associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.) This is a very small development in comparison with the rest of the small size the farm is able to provide 80 people with an income in annually. The economy of the town will directly benefit from the action of the specific specific specific during the harvest season. It is a power specific specific specific specific specific specific during the specific specific specific specific specific during the specific spe	surrounding die table gra vity, by prov great adva . The develo due to their I tablishment	farmers I ape harve iding app ntage to pment gir evel of ex of vineya	explain but with it est seaso proximatel the sma ves peopl cperience rds (grap
associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.) This is a very small development in comparison with the rest of the small size the farm is able to provide 80 people with an income in annually. The economy of the town will directly benefit from the action of employment opportunities during the harvest season. It is a business practices because of the money they spend on living costs an opportunity to educate themselves and find a permanent position. The town of Augrabies is known for its agricultural sector. So the esproduction) on Portion 13 of Orange Farm No. 16, Augrabies Fall	surrounding die table gra vity, by prov great adva . The develo due to their I tablishment ls Way, will sector is still my of Kai !0 providing 6 nomic growt	farmers I ape harve iding app ntage to pment gir evel of ex of vineya be in lin the main Garib in 6.5% of ch. The c	explain out with it est seaso proximatel the sma ves peopl cperience rds (grap e with th economi 2010. Th all forma

fresh-produce facilities, packing houses); transport links to main networks (rural roads, branch trainline, ports), fencing of farms, irrigation schemes to poor areas, improved R&D on rural issues (including expansion of agricultural colleges), processing facilities (abattoirs, dairy infrastructure), aquaculture incubation schemes and rural tourism infrastructure". Are the necessary services with adequate capacity currently available (at the time of application), or must additional Please capacity be created to cater for the development? YES NO (Confirmation by the relevant Municipality in this regard explain must be attached to the final Basic Assessment Report as Appendix I.) The availability of services with adequate capacity (sewerage, solid waste disposal and water) still needs to be confirmed. Although there are limited services available, it must first be determined what the maximum amount of people the existing infrastructure can service. The municipality is expected to be the service provider, although additional service providers may be required. Currently there is sufficient water availability from the recently constructed vineyards. Waste is disposed of at a disposal site on the farm that is fenced, locked and secured. This site passes the Global Gap and Tesco Audits every year. The sewage is disposed of in a drain that is emptied by a honey sucker by the Kai !Garib Local Municipality when it is full. In addition, Eskom is the electricity provider on the farm. The water supply is from the canal next to the Orange river and currently they have an existing amount of 10ha water rights on their farm, they have a 20ha development and therefore they currently rent and extra 10.8ha water rights in order to supply the other 10ha of developed vineyards. Is this development provided for in the infrastructure planning of the municipality, and if not what will the implication be on the infrastructure planning of the Please YES NO municipality (priority and placement of services and explain opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.) This development is not expected to have any significant impact on infrastructure plans for the Municipality. Please Is this project part of a national programme to address an YES NO issue of national concern or importance? explain No, however, additional job opportunities and economic development are of national importance. In addition, the proposed development falls within the ambit of Strategic Infrastructure Project ("SIP") 11 (Agri-logistics and rural Infrastructure) as identified in the National Infrastructure Plan. SIP 11 aim to "Improve investment in agricultural and rural infrastructure that supports expansion of production and employment, small-scale farming and rural development, including facilities for storage (silos, fresh-produce facilities, packing houses); transport links to main networks (rural roads, branch train-

fresh-produce facilities, packing houses); transport links to main networks (rural roads, branch trainline, ports), fencing of farms, irrigation schemes to poor areas, improved R&D on rural issues (including expansion of agricultural colleges), processing facilities (abattoirs, dairy infrastructure), aquaculture incubation schemes and rural tourism infrastructure".

• Do location factors favour this land use (associated with the activity applied for) at this place? (This relates to the contextualisation of the proposed land use on this site within its broader context.)	YES	NO	Please explain		
Yes. The site is located on an existing farm that is being used for table located adjacent to established vineyards, with existing gravel access additional road constructions. In addition, the site is located sout According to the Kai !Garib Municipality IDP 2014, the Orange River p water that is available for irrigation and the low population density re though it is an arid area, water availability per capita is generally high.	roads. Th h-east of rovides a	erefore, n the Orai significan	o need for nge River. t source of		
• Is the development the best practicable environmental option for this land/site?	YES	NO	Please explain		
Although the proposed development will result in and expected environmental impacts, these are considered insignificant at this stage.		ive some	potential		
The best environmental option would be the no-go alternative. However, of the proposed project would not be realised. The potential ber perspective are considered to significantly outweigh any potential en- was previously used for livestock grazing and was in a somewhat degra	nefits fron vironment	n a socio al impacts	-economic		
With appropriate measures, as per the Specialist recommendation Management Programme, any potential negative environmental is satisfactorily mitigated.					
• Will the benefits of the proposed land use/development outweigh the negative impacts of it?	YES	NO	Please explain		
	No significant negative environmental impacts have been identified or are expected. Any negative environmental impacts identified (see section B and D) will be adequately mitigated. The socio- economic benefits are expected to outweigh these environmental impacts.				
According to the Botanical Assessment (Appendix D1), the development 10ha of remaining 65 to 70ha of natural veld on an operating table alternative land-use is livestock grazing by the owners. However, since veld is very low, and the farm is relatively small, intense agriculture v livestock grazing. The development might thus be considered a positive	e grape fa ce the gra vill be mu	rm. The o zing pote ch more v	only viable ntial of the viable than		
• Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?	YES	NO	Please explain		
Not necessarily. However, Augrabies and the surrounding areas are predominantly agricultural. According to the Kai !Garib Municipality IDP 2014, the agricultural sector is still the main economic sector who made the biggest contribution (51.8 %) to the economy of Kai !Garib in 2010. The economy is heavily depended on the Agricultural Sector, both intensive and extensive (Kai !Garib Municipality IDP, 2014).					
• Will any person's rights be negatively affected by the proposed activity/ies?	YES	NO	Please explain		
No person's rights are expected to be negatively affected by the propo is expected to have a general positive impact on the residents of the			he activit		

 Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality? 	YES	NO	Please explain
The development is located outside the urban edge. The site is located area of Augrabies, along the Orange River.	d within a	n existing a	agricultural
 Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)? 	YES	NO	Please explain
Yes, the proposed development falls within the ambit of Strategic Infra (Agri-logistics and rural Infrastructure) as identified in the National Infra (Improve investment in agricultural and rural infrastructure that support employment, small-scale farming and rural development, including faci produce facilities, packing houses); transport links to main networks (ru ports), fencing of farms, irrigation schemes to poor areas, improved R8 expansion of agricultural colleges), processing facilities (abattoirs, dairy ncubation schemes and rural tourism infrastructure".	estructure s expans lities for s ural roads D on rura	Plan. SIP ion of prod storage (sil , branch tra al issues (in	11 aim to uction and os, fresh- ain-line, ncluding
 What will the benefits be to society in general and to the communities? 	local	Please	explain
This is a very small development in comparison with the rest of the su small size the farm is able to provide 80 people with an income in d annually. The economy of the town will directly benefit from the activi 30 employment opportunities during the harvest season. It is a g pusiness practices because of the money they spend on living costs. T an opportunity to educate themselves and find a permanent position du The town of Augrabies is known for its agricultural sector. So the esta production) on Portion 13 of Orange Farm No. 16, Augrabies Falls surrounding agricultural land uses.	ie table g ty, by pro great adv The deve ue to thein ablishmen	rape harve oviding app antage to opment giv lopment giv lovel of ex t of vineya	est seasor proximately the smal ves people operience. rds (grape
According to the Kai !Garib Municipality IDP 2014, the agricultural se sector who made the biggest contribution (51.8 %) to the econom Agriculture sector is also a major employer in the Municipality, p employment. It is also the sector with the largest potential for econo farmers farm especially with grapes for export, raisins and wine, whil becoming more prevalent in the area.	y of Kai providing omic grov	!Garib in 66.5% of wth. The c	2010. The all forma ommercia
n addition, the proposed development falls within the ambit of Strateg		ucture Pro	
11 (Agri-logistics and rural Infrastructure) as identified in the National Ir o "Improve investment in agricultural and rural infrastructure that sup and employment, small-scale farming and rural development, includi iresh-produce facilities, packing houses); transport links to main netwo ine, ports), fencing of farms, irrigation schemes to poor areas, im (including expansion of agricultural colleges), processing facilities (a aquaculture incubation schemes and rural tourism infrastructure".	ports exp ng faciliti orks (rura proved F	eansion of es for stor I roads, bro R&D on ru	ject ("SIP" SIP 11 aim productior age (silos anch train iral issues

somewhat degraded state. In addition, the site is located next to existing developed vineyards (table grapes). No roads were constructed as there were existing gravel roads to gain access to the site. Electricity is obtained from Eskom. The botanical assessment found that it is highly unlikely that the development contributed significantly to any of the following:

- Significant loss of vegetation type and associated habitat;
- Loss of ecological processes (e.g. migration patterns, pollinators, river function etc.) due to construction and operational activities;
- Loss of local biodiversity and threatened plant species; and
- Loss of ecosystem connectivity (see Appendix D1).
- How does the project fit into the National Development Plan for 2030?
 Please explain

Economic development and job creation is a priority of National importance.

 Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account.

The general objectives of Integrated Environmental Management have been taken into account through the following:

- The actual and potential impacts of the activity on the environment, socio-economic conditions and cultural heritage have been identified, predicted and evaluated, as well as the risks and consequences and alternatives and options for mitigation of activities, with a view to minimizing negative impact, maximizing benefits and promoting compliance with the principles of environmental management *please refer to Section D below.*
- The effects of the activity on the environment have been considered before actions taken in connection with them alternatives have been considered and investigated (please refer to Section A below).
- Adequate and appropriate opportunity for public participation was ensured through the public participation process please refer to Section C for the public participation information, including the list of identified Interested and Affected parties, as well as the methods for identifying and informing I&APs of the application and proposed activity.
- The environmental attributes have been considered in the management and decision-making of the activity an EMPr has been included (**Appendix G**) with the proposed activity and must adhere to the requirements of all applicable state Authorities.
- Please describe how the principles of environmental management as set out in section 2 of NEMA have been taken into account.

The principles of environmental management as set out in section 2 of NEMA have been taken into account. The principles pertinent to this activity include:

- People and their needs have been placed at the forefront while serving their physical, psychological, developmental, cultural and social interests *the proposed activity will have a significant beneficial impact on people, as it will provide much needed economic opportunities.*
- Development must be socially, environmentally and economically sustainable. Where disturbance of ecosystems, loss of biodiversity, pollution and degradation, and landscapes and sites that constitute the nation's cultural heritage cannot be avoided, are minimised and remedied.
- Where waste cannot be avoided, it is minimised and remedied through the implementation and adherence of EMPr.
- The use of non-renewable natural resources is responsible and equitable no exploitation of non-renewable natural resources occurs with the proposed activity.
- The negative impacts on the environment and on people's environmental rights have been anticipated and prevented, and where they cannot be prevented, are minimised and remedied *refer to Section F below*.
- The interests, needs and values of all interested and affected parties have been taken into account in any decisions through the Public Participation Process *please refer to Section C for the public participation information.*
- The social, economic and environmental impacts of the activity have been considered, assessed and

evaluated, including the disadvantages and benefits - refer to Section B below.

- The effects of decisions on all aspects of the environment and all people in the environment have been taken into account, by pursuing what is considered the best practicable environmental option – the proposed activity is expected to have minimal/negligible environmental impacts, especially after mitigation measures as described under Section D and E and in the EMPr are implemented.

• APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
National Water Act (NWA, Act 36 of 1998).	WULA	Department of Water and Sanitation	Not yet
Conservation of Agricultural Resources Act, 1983 (Act 43 of 1983).	Plough Certificate	Department of Agriculture, Forest and Fisheries	Not yet
National Heritage Resources Act, 1999 (Act 25 of 1999)	SAHRA	Permit	Not yet

WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

YES NO m³

If YES, what estimated quantity will be produced per month? Unknown

How will the construction solid waste be disposed of (describe)?

The general solid waste generated during construction will be consolidated on site during construction, and disposed of at the nearest approved municipal landfill site.

Where will the construction solid waste be disposed of (describe)?

The general solid waste generated during construction will be consolidated on site during construction, and disposed of at the nearest approved municipal landfill site.

Will the activity produce solid waste during its operational phase?

YES NO

If YES, what estimated quantity will be produced per month? – Unknown at this stage

m³

How will the solid waste be disposed of (describe)?

The solid waste generated by the farm especially in the packing season of the grapes get disposed on the farm at a dumping site that is safe, fenced and locked and audited by Global Gap and Tesco every year (See **Appendix J** for certificates).

If the solid waste will be disposed of into a municipal waste stream, indicate which registered landfill site will be used.

To be confirmed.

Where will the solid waste be disposed of if it does not feed into a municipal waste stream (describe)?

The solid waste generated by the farm especially in the packing season of the grapes get disposed on the farm at a dumping site that is safe, fenced and locked and audited by Global Gap and Tesco every year (See **Appendix J** for certificates).

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the NEM:WA? <u>YES</u> NO If YES, inform the competent authority and request a change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

Is the activity that is being applied for a solid waste handling or treatment facility? <u>YES</u> NO If YES, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

b) Liquid effluent

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

If YES, what estimated quantity will be produced per month?

Will the activity produce any effluent that will be treated and/or disposed of on site?

If YES, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?

YES NO

NO

NO

m³

YES

YES

If YES, provide the particulars of the facility:

Facility name:	
Contact	
person:	
Postal	
address:	
Postal code:	
Telephone:	Cell:
E-mail:	Fax:

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

The sewage is disposed of in a drain that is emptied by a honeysucker by the Kai !Garib Local Municipality when it is full.

The treatment of sewage on-site at this stage is considered not feasible for the applicant, as the Municipality collects the sewage from the farm.

c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere other that exhaust emissions and dust associated with construction phase activities?

If YES, is it controlled by any legislation of any sphere of government? <u>YES</u> NO If YES, the applicant must consult with the competent authority to determine whether it is necessary to

change to an application for scoping and EIA.

If NO, describe the emissions in terms of type and concentration:

This application is for the rectification for the unlawful expansion and development of agricultural land to allow for the establishment of vineyards (table grape farming). Vegetation was cleared for the establishment of vineyards on site; however, the activities are not going to produce emissions into the atmosphere.

d) Waste permit

Will any aspect of the activity produce waste that will require a waste permit in terms of the NEM:WA?

If YES, please submit evidence that an application for a waste permit has been submitted to the competent authority

e) Generation of noise

Will the activity generate noise? If YES, is it controlled by any legislation of any sphere of government?

Describe the noise in terms of type and level:

The activity produced localised noise during the construction stage (earthworks), and was/ will be reduced to normal working hours. The activity is unlikely to produce significant noise levels as the activities took place on an existing farm that are being used for the farming of table grapes. The establishment and operation of vineyards (table grape farming) is not considered to cause a significant negative noise impact. The site is surrounded by other agricultural practices. Low-negative noise will occur without mitigation. However, the EMPr will be implemented to reduce the amount of noise generated during the construction and operational phase.

Γ	YES	NO
	YES	NO

YES

NO

YES	NO
YES	NO

WATER USE

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es):

Municipal	Water board	Groundwater	River, stream, dam or lake	Other	The activity will not use water

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month: Unknown at this stage, but the applicant received 10ha water rights on 14 litres June 1999. The water supply is from the canal next to the Orange river and currently they have an existing amount of 10ha water rights on their farm. Irrigation will be done within the existing water rights. Does the activity require a water use authorisation (general authorisation or water YES NO

use license) from the Department of Water Affairs?

If YES, please provide proof that the application has been submitted to the Department of Water Affairs.

ENERGY EFFICIENCY

Describe the design measures, if any, which have been taken to ensure that the activity is energy efficient:

N/A. No energy efficiency measures were adopted during the establishment of vineyards on the Farm. However, the young vines were covered with netting in order protect it against the natural elements.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

N/A. No alternative energy sources were considered during the establishment of vineyards on the farm.

SECTION B: SITE/AREA/PROPERTY DESCRIPTION

Important notes:

 For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section B and indicate the area, which is covered by each copy No. on the Site Plan.

Section B Copy No. (e.g. A	A):
----------------------------	-----

• Paragraphs 1 - 6 below must be completed for each alternative.

• Has a specialist been consulted to assist with the completion of this section? YES NO If YES, please complete the form entitled "Details of specialist and declaration of interest" for each specialist thus appointed and attach it in Appendix I. All specialist reports must be contained in Appendix D.

Property	Province		Northern Cape				
description/physical	District		ZF Mgcawu District Municipality				
address:	Municipality						
	Local Municipal	lity	Kai !Garib Local Municipality				
	Ward Number(s	5)	1				
	Farm name a	and	Portion 13 of Orange Falls Farm No. 7	16			
	number						
	Portion number	r	13				
	SG Code		C0360000000001600091				
	attach a full list to above.	this	application including the same informa	tion as in	idicated		
Current land-use zoni local municipality IDP	• • •	gricu	Iltural zoning				
In instances where there is more than one current land-u- zoning, please attach a list of current land use zonings th also indicate which portions each use pertains to, to th application.					ngs that		
Is a change of land-use or a consent use application required?							

GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1:

	•					
Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper
						than 1:5
Alternative S2	! (if any):					
Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper
						than 1:5
Alternative S3	(if any):			•		
Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper
						than 1:5

LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site:

2.1 Ridgeline	2.4 Closed valley		2.7 Undulating plain / low hills	
2.2 Plateau	Plateau 2.5 Open valley		2.8 Dune	
2.3 Side slope of hill/mountain	2.6 Plain	Х	2.9 Seafront	
2.10 At sea				

• GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following?

	Alternative S1:		Al	ternat	ive S2	Alternat	tive S3
			(if	any):		(if any):	
Shallow water table (less than 1.5m deep)	YES	NO	7	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	2	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	7	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	2	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	7	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	2	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	7	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	7	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted.

Please refer to the Soil Survey (Appendix J4) for more details.

GROUNDCOVER

Indicate the types of groundcover present on the site. The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld - good condition ^E	Natural veld with scattered aliens [⊑]	Natural veld with heavy alien infestation ^E	Veld dominated by alien species [⊑]	Gardens
Sport field	Cultivated-land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an "E "is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise. The site is currently transformed due to past agricultural practises on the farm.

The site would historically have been covered with Bushmanland Arid Grassland (*Least Threatened*) (SANBI BGIS). The land/site was previously grazed by livestock, and was in a degraded state prior to commencement (Please see figure 5). In accordance with the National Vegetation map 2012 beta2 of South Africa, the vegetation types expected in the vicinity of the proposed site is Bushmanland Arid Grassland (*Least Threatened*) vegetation type. The area along the Orange River falls in the Lower Gariep Alluvial Vegetation (*Vulnerable*) vegetation type. (see Appendix D1). The agricultural land can be described as transformed with no natural veld left, but the remainder of the property still supports natural veld, most of which is still in fairly good condition (See Appendix D1). In addition, the Botanical Assessment indicates that no red-listed species was observed during the site visit; and no plants protected in terms of the National Environmental Management: Biodiversity Act, Act 10 of 2004 and its "Lists of critically endangered, endangered, vulnerable and protected species" (GN. R. 152 of 23 February 2007) were encountered on the site.

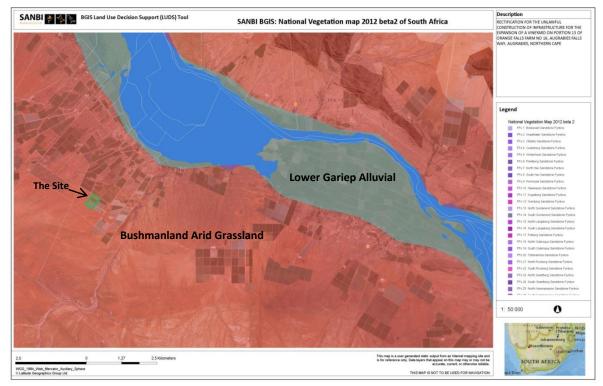


Figure 5: SANBI BGIS - National Vegetation Map 2012 beta2 of South Africa, indicating the vegetation on the site and the surrounding areas.

SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites?

Perennial River	YES	NO	UNSURE
Non-Perennial River – Please see description below	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE
Estuarine / Lagoonal wetland	YES	NO	UNSURE

If any of the boxes marked YES or UNSURE is ticked, please provide a description of the relevant watercourse.

The site is located on an agricultural property and is situated next to existing vineyards. The Orange River is approximately 2.3km north-east of the site. The Brabees River is approximately 1.3km East of the site. The development is located inside partially disturbed Bushmanland Arid Grassland. The site is approximately 2300m from a National Freshwater Ecosystem Priority Area (NFEPA) river (See figure 6 below). This is more than 32m from any freshwater system. The establishment of vineyards had no impact on any freshwater resources/features. No wetlands were evident on site. According to the Botanical Assessment (Appendix D1), ephemeral drainage lines are present on the property, but no significant watercourse was observed or expected to have been impacted. However, stormwater management will have to be part of the management.

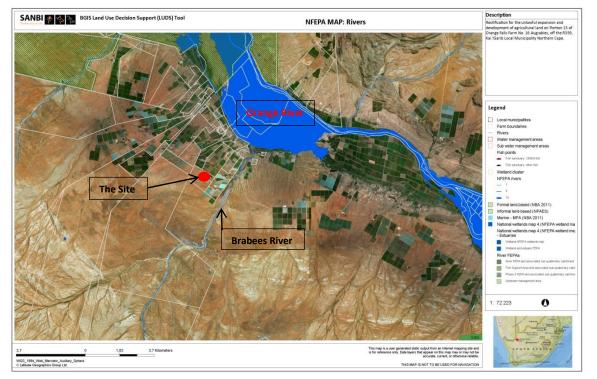


Figure 6: NFEPA (National Freshwater Ecosystem Priority Areas) Map of the proposed site (red dot) and the surrounding rivers.

LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

Natural area	Dam or reservoir	Polo fields	
Low density residential	Hospital/medical centre	Filling station ⁺	
Medium density residential	School	Landfill or waste treatment site	
High density residential	Tertiary education facility	Plantation	
Informal residential ^A	Church	Agriculture	
Retail commercial & warehousing	Old age home	River, stream or wetland – please see description above	
Light industrial	Sewage treatment plant ^A	Nature conservation area	
Medium industrial AN	Train station or shunting yard N	Mountain, koppie or ridge	
Heavy industrial AN	Railway line ^N	Museum	
Power station	Major road (4 lanes or more) N	Historical building	
Office/consulting room	Airport ^N	Protected Area	
Military or police	Harbour	Graveyard	
base/station/compound		Giaveyaiu	
Spoil heap or slimes dam ^A	Sport facilities	Archaeological site	
Quarry, sand or borrow pit	Golf course	Other land uses (describe)	

If any of the boxes marked with an "^N "are ticked, how this impact will / be impacted upon by the proposed activity? Specify and explain:

N/A

If any of the boxes marked with an "^{An}" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

N/A

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

N/A

Does the proposed site (including any alternative sites) fall within any of the following:

Critical Biodiversity Area (as per provincial conservation plan)	YES	NO
Core area of a protected area?	YES	NO
Buffer area of a protected area?	YES	NO
Planned expansion area of an existing protected area?	YES	NO
Existing offset area associated with a previous Environmental Authorisation?	YES	NO
Buffer area of the SKA?	YES	NO

If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix A (The site does not fall within a CBA. The site, however, is located within an ESA) (see Appendix A & D1).

CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in	YES	NO
section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the	Uncertain	
site? If YES, explain:		

An Archaeological Screening Assessment was undertaken and found that it is unlikely that significant archaeological or heritage resources has been impacted by the development, since the affected lands had already been grazed prior to development of the vineyards; although it should be noted that relatively large numbers of banded ironstone Middle Stone Age tools were recorded during the study of undeveloped land immediately south of the unlawful vineyards.

If uncertain, conduct a specialist investigation by a recognised specialist in the field (archaeology or palaeontology) to establish whether there is such a feature(s) present on or close to the site. Briefly explain the findings of the specialist:

An Archaeological Screening Assessment was undertaken and found that it is unlikely that significant archaeological or heritage has been impacted by the development, since the affected lands had already been grazed prior to development of the vineyards; although it should be noted that relatively large numbers of banded ironstone Middle Stone Age tools were recorded during the study of undeveloped land immediately south of the unlawful vineyards.

Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO

If YES, please provide proof that this permit application has been submitted to SAHRA or the relevant provincial authority.

Please note that the site is larger than 5 000m² and the character of the site will change. The project is therefore subject to Section 38(1) of the NHRA. The project has been registered with SAHRA through SAHRIS.

• SOCIO-ECONOMIC CHARACTER

a) Local Municipality

Please provide details on the socio-economic character of the local municipality in which the proposed site(s) are situated.

Level of unemployment:

According to Stat SA 30 949 people are economically active (employed or unemployed but looking for work), and of these, 10% are unemployed. Of the 19 375 economically active youth (15 - 35) years) in the area, 10% are unemployed.

Economic profile of local municipality:

Economic Profile According to the Kai! Garib Municipality IDP 2014:

Agriculture Sector

The agricultural sector is still the main economic sector who made the biggest contribution (51.8 %) to the economy of Kai !Garib in 2010. The Agriculture sector is also a major employer in the Municipality, providing 66.5% of all formal employment. It is also the sector with the largest potential for economic growth. The commercial farmers farm especially with grapes for export, raisins and wine, while citrus types of fruit are also becoming more prevalent in the area.

Tourism Sector

According to the Kai! Garib Municipality IDP 2014, the tourism sector still has a lot of potential and although Kai !Garib Municipality have been implementing marketing strategies and plans to stimulate the sector it has not reached its full potential. Popular tourism attractions like the Augrabies Water Falls and the Kokerboom Route attracts visitors to the area. Kai !Garib Municipal Area witnesses unique landscape with the Kalahari desert on the one side and the Orange River on the other side. The area is also known for the variety of birds and animals also occur. The opportunity exists to utilise these natural treasures in order to draw tourists to the area.

Level of education:

Education (aged 2	20 +)	Year: 2016		Year:2011	
No schooling			5.6%		9.0%
Matric			20.9%		15.5%
Higher education			3.6%		3.9%
Information	obtained	from	the	following	websi

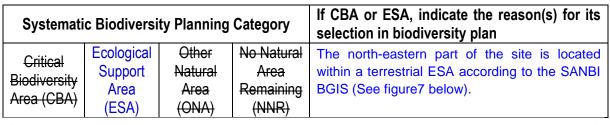
b) Socio-economic value of the activity

What is the expected capital value of the activity on completion?	R10 000 000	
What is the expected yearly income that will be generated by or as a	Unknown at th	is stage
result of the activity?		
Will the activity contribute to service infrastructure?	YES	NO
Is the activity a public amenity?	YES	NO
How many new employment opportunities will be created in the	20	
development and construction phase of the activity/ies?		
What is the expected value of the employment opportunities during the	Unknown at this stage	
development and construction phase?		
What percentage of this will accrue to previously disadvantaged	60%	
individuals?		
How many permanent new employment opportunities will be created	80 (During	Harvesting
during the operational phase of the activity?	Season)	
What is the expected current value of the employment opportunities	Unknown at th	is stage
during the first 10 years?		
What percentage of this will accrue to previously disadvantaged	60%	
individuals?		

BIODIVERSITY

Please note: The Department may request specialist input/studies depending on the nature of the biodiversity occurring on the site and potential impact(s) of the proposed activity/ies. To assist with the identification of the biodiversity occurring on site and the ecosystem status consult http://bgis.sanbi.org or BGIShelp@sanbi.org. Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/EAP's responsibility to ensure that the latest version is used. A map of the relevant biodiversity information (including an indication of the habitat conditions as per (b) below) and must be provided as an overlay map to the property/site plan as Appendix D to this report.

a) Indicate the applicable biodiversity planning categories of all areas on site and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category)



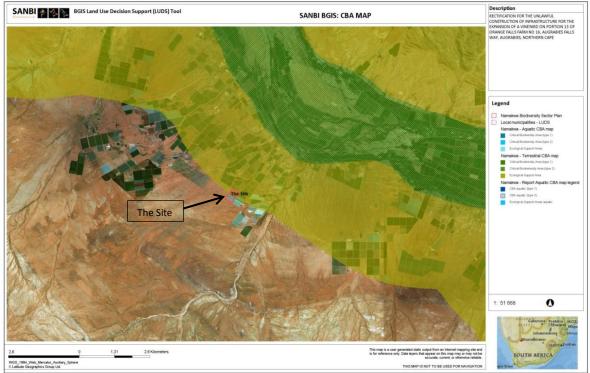


Figure 7: Threatened ecosystem map of the proposed site. The site is indicated by the pink rectangle. The north-eastern part of the site is located within a terrestrial ESA. According to Namakwa District Biodiversity Sector Plan (2008), the development borders on and also slightly encroach on an ecological support area (ESA) which was established as a terrestrial migration corridor associated with the Orange River corridor. However, it must be noted that most of this corridor in this vicinity is compromised as a result of existing agricultural development. Most of the neighbouring areas to the west, north and east of the Lair Trust farm have already been transformed into agricultural land. To the

south of the property (falling outside of the ESA) natural vegetation is still encountered (Also see Appendix D1).

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing, harvesting regimes etc).
Natural	0%	The land/site was previously grazed by livestock, hence the already disturbed status of the site. Alien invasive species encroached onto the site.
Near Natural (includes areas with low to moderate level of alien invasive plants)	0%	The land/site was previously grazed by livestock, hence the already disturbed status of the site. Alien invasive species encroached onto the site.
Degraded (includes areas heavily invaded by alien plants)	20 %	The land/site was previously grazed by livestock, hence the already disturbed status of the site. Alien invasive species encroached onto the site. To the south of the property (falling outside of the ESA) natural vegetation is still encountered.
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	80 %	The land/site was previously grazed by livestock, hence the already disturbed status of the site. Alien invasive species encroached onto the site. The site is totally transformed due to the establishment of vineyards for grape production.

b) Indicate and describe the habitat condition on site

C) Complete the table to indicate:

- the type of vegetation, including its ecosystem status, present on the site; and (i) (ii)
- whether an aquatic ecosystem is present on site.

Terrestrial Ecosystems		Aquatic Ecosystems						
Ecosystem threat	Critical	Wetlan	d (includ	ding rivers,				
status as per the	Endangered	depressions, channelled and unchanneled wetlands, flats,		depressions, channelled and				
National	Vulnerable			Esti	Jary	Coas	oastline	
Environmental		seeps pans, and artificial						
Management:	Least	wetlands)						
Biodiversity Act (Act	Threatened	YES	NO	UNSURE	YES	NO	YES	NO
No. 10 of 2004)		120	no	ONCORE	120	no	120	

d) Please provide a description of the vegetation type and/or aquatic ecosystem present on site, including any important biodiversity features/information identified on site (e.g. threatened species and special habitats)

Vegetation

In accordance with the National Vegetation map 2012 beta2 of South Africa, the vegetation types expected in the vicinity of the proposed site is Bushmanland Arid Grassland (*Least Threatened*) vegetation type. The area along the Orange river falls in the Lower Gariep Alluvial Vegetation (*Vulnerable*) vegetation type.

The proposed site is not located within a Critical Biodiversity Area ("CBA"). However, the northeastern part of the site falls within a terrestrial Ecological Support Area ("ESA"). The site fall in the Bushmanland Arid Grassland vegetation type that covers large areas in the region and its status is "least threatened". Little of this type is transformed. Being well represented and not threatened, the impact on vegetation type per se will be of low significance, with mitigation.(See figure 8 & Appendix D1).

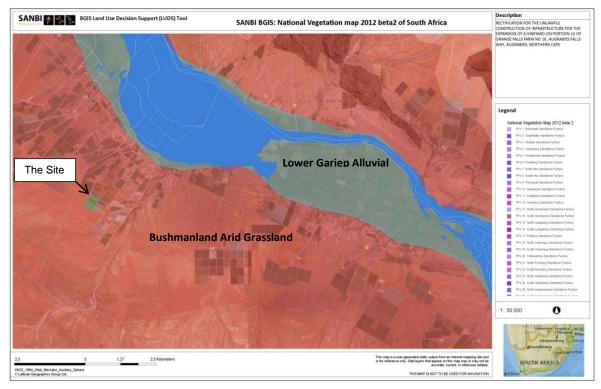


Figure 8: SANBI BGIS map showing the vegetation cover of the area.

SECTION C: PUBLIC PARTICIPATION

ADVERTISEMENT AND NOTICE

Publication name	Die Gemsbok		
Date published	02 June 2017		
Site notice position	Latitude Longitude		
	Posters were placed at the entrance to Farm.		
Date placed	See Appendix E4		

Include proof of the placement of the relevant advertisements and notices in Appendix E1.

DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 41(2)(e) and 41(6) of GN 733.

Key stakeholders (other than organs of state) identified in terms of Regulation 41(2)(b) of GN 733: Please refer to Appendix E5 (I&APs List).

Title, Name and Surname	Affiliation/ key stakeholder status	Contact details (tel number or e-mail address)

Include proof that the key stakeholder received written notification of the proposed activities as Appendix E2. This proof may include any of the following:

- e-mail delivery reports;
- registered mail receipts;
- courier waybills;
- signed acknowledgements of receipt; and/or
- or any other proof as agreed upon by the competent authority.

• ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summary of main issues raised by I&APs	Summary of response from EAP
Please note that no comments were received during the initial 30 day commenting period.	

COMMENTS AND RESPONSE REPORT

The practitioner must record all comments received from I&APs and respond to each comment before the Draft BAR is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to the Final BAR as Appendix E3.

AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders: Please refer to Appendix E1.

Authority/Organ of State	Contact person (Title, Name and Surname)	Tel No	Fax No	e-mail	Postal address

Include proof that the Authorities and Organs of State received written notification of the proposed activities as appendix E4.

In the case of renewable energy projects, Eskom and the SKA Project Office must be included in the list of Organs of State.

CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for any activities (linear or other) where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub-regulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable. Application for any deviation from the regulations relating to the public participation process must be submitted prior to the commencement of the public participation process.

A list of registered I&APs must be included as appendix E5.

Copies of any correspondence and minutes of any meetings held must be included in Appendix E6.

SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014 and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

Provide a summary and anticipated significance of the potential direct, indirect and cumulative impacts that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed. This impact assessment must be applied to all the identified alternatives to the activities identified in Section A(2) of this report.

Activity	Impact summary	Significance	Proposed mitigation
Alternative	e 1 (preferred alternative)		
	Direct impacts: Potential impact on freshwater ecosystems - Ephemeral drainage lines are present on the property, but no significant watercourses were observed or expected to have been impacted.	Insignificant - Low negative	 Vehicles to use existing roads and tracks as far as possible. Storm water management will be implemented with the EMPr. No roads will be constructed.
	 Potential impact on Flora Boscia albitrunca – It is possible that a small number of these trees might have been removed to make way for the development. Aloe claviflora - It is likely that the development would have impacted on a number of these plants. Boscia foetida - it is likely that some of these plants. Boscia foetida - it is likely that some of these plants might also have been impacted as a result of the development. No red-listed species was encountered but a number of protected 	Low Negative	 A management plan for the control of invasive and exotic plant species needs to be implemented. Specialist advice should be used in this regard. The EMPr will be implemented to mitigate the low negative impact and to improve the condition of the site. Indiscriminate clearing of areas will be avoided (all remaining areas to remain as natural as possible).

species is likely to have been impacted. This resulted in a low negative impact, without mitigation, and without the required flora permits.	Insignificant	Activities on site must comply with the
	insignificant	regulations of the Animal Protection Act 1962 (Act No. 71 of 1962). Workers should also be advised on the penalties associated with the needless destruction of wildlife, as set out in this act.
 A portion of the property falls within an ecological support area which aims at the protection of terrestrial migration corridors associated with the Orange River corridor. But the property itself is located within and agricultural landscape. The property was previously used for grazing of livestock. 	Insignificant - Low negative	 Vehicles to use existing roads and tracks as far as possible. No roads will be constructed. Indiscriminate clearing of areas will be avoided (all remaining areas to remain as natural as possible). A management plan for the control of invasive and exotic plant species needs to be implemented. Specialist advice should be used in this regard. The EMPr will be implemented to mitigate the low negative impact and to improve the condition of the site.
PotentialImpactsonSocio-economic aspects- Creationofemploymentand business opportunitiesduringtheeventplanningandpreparationphase	Medium – Positive	• The movement of workers on and off the site should be closely managed and monitored by the contractors. In this regard the contractors should be responsible for making the necessary arrangements for transporting workers to and from site on a daily basis;
- Benefits to local Agricultural sector associated with operational phase	Low – Positive	The applicant would be able to compete with international markets for Grape Export to other countries. Thereby indirectly benefitting the local agricultural economy.
 The loss of cultural or historic aspects during construction Impacts at the proposed development: Impacts at the proposed development: 	Very Low – Neutral Very Low - Negative	 If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to SAHRA and must not be disturbed further until the necessary approval has been obtained from SAHRA.

			• Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency. The ECO and Engineer are also to be informed.
	Noise Impact	Low - Negative	No construction activities will take place during nigh time. All construction activities will be limited to normal working hours.
	Visual Impact	Very – Low - Negative	The activity is not expected to cause a significant visual impact given the fact that the site is located next to existing vineyards; in an agricultural area.
	Indirect impacts: It is unlikely that the development contributed	Low negative	The EMPr will be implemented during the construction and operational phases.
	significantly to the following: Significant loss of vegetation type and associated habitat; Loss of ecological processes (e.g. migration patterns, pollinators, river function etc.) due to construction and operational activities; Loss of local biodiversity and threatened plant species; and Loss of ecosystem connectivity. (Please see Appendix D1).	Version	 Vehicles to use existing roads and tracks as far as possible. No roads will be constructed. Indiscriminate clearing of areas will be avoided (all remaining areas to remain as natural as possible). A management plan for the control of invasive and exotic plant species needs to be implemented. Specialist advice should be used in this regard. The EMPr will be implemented to mitigate the low negative impact and to improve the condition of the site. Activities on site must comply with the regulations of the Animal Protection Act 1962 (Act No. 71 of 1962). Workers should also be advised on the penalties associated with the needless destruction of wildlife, as set out in this act.
	Cumulative impacts: The activity is not considered to cause a significant environmental impact during the operational phase.	Very low negative	Recommendations mentioned above will be implemented together with the EMPr.
Alternative	2		1
	Direct impacts: Potential impact on freshwater ecosystems Ephemeral drainage lines are present on the property. A large part of this site consists of ephemeral drainage lines.	Low negative	 Vehicles to use existing roads and tracks as far as possible. Storm water management will be implemented with the EMPr. No roads will be constructed.

Potential impact on Flora		
- Boscia albitrunca – It is possible that a small number of these trees might have been removed to make way for the development.		
- Aloe claviflora - It is likely that the development would have impacted on a number of these plants.		
- Boscia foetida - it is likely that some of these plants might also have been impacted as a result of the development.		
No red-listed species was encountered but a number of protected species is likely to have been impacted. This resulted in a low negative impact, without mitigation, and without the required flora permits.		
Potential impact on Fauna	Low negative	 Activities on site must comply with the regulations of the Animal Protection Act 1962 (Act No. 71 of 1962). Workers should also be advised on the penalties associated with the needless destruction of wildlife, as set out in this act.
 Biodiversity A portion of the property falls within an ecological support area which aims at the protection of terrestrial migration corridors associated with the Orange River corridor. But the property itself is located within and agricultural landscape. A part of the area (alternative2) consists of intact natural vegetation. 	Low-medium negative	 Vehicles to use existing roads and tracks as far as possible. No roads will be constructed. Indiscriminate clearing of areas will be avoided (all remaining areas to remain as natural as possible). A management plan for the control of invasive and exotic plant species needs to be implemented. Specialist advice should be used in this regard. The EMPr will be implemented to mitigate the low negative impact and to improve the condition of the site.

Potential Impacts on Socio-economic aspects - Creation of employment and business opportunities during the event planning and preparation phase - Benefits to local Agricultural sector associated with operational phase.	Medium – Positive Low – Positive	 The movement of workers on and off the site should be closely managed and monitored by the contractors. In this regard the contractors should be responsible for making the necessary arrangements for transporting workers to and from site on a daily basis; The applicant would be able to compete with international markets for Grape Export to other countries. Thereby indirectly benefitting the local agricultural economy.
The loss of cultural or historic aspects during construction - Impacts at the proposed development: - Impacts at the proposed development:	Very Low – Neutral Very Low - Negative	 If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to SAHRA and must not be disturbed further until the necessary approval has been obtained from SAHRA. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency. The ECO and Engineer are also to be informed.
Noise Impact	Low - Negative	No construction activities will take place during nigh time. All construction activities will be limited to normal working hours.
Visual Impact	Low - Negative	The activity is not expected to cause a significant visual impact given the fact that the site is located next to existing vineyards; in an agricultural area.
Indirect impacts: It is unlikely that the development would result in unacceptable environmental impacts.	Low negative	 The EMPr will be implemented during the construction and operational phases. Vehicles to use existing roads and tracks as far as possible. No roads will be constructed.

[]	[]	1	Indiscriminate clearing of areas will be
	Cumulative impacts:	low negative	 Indiscriminate clearing of areas will be avoided (all remaining areas to remain as natural as possible). A management plan for the control of invasive and exotic plant species needs to be implemented. Specialist advice should be used in this regard. The EMPr will be implemented to mitigate the low negative impact and to improve the condition of the site. Activities on site must comply with the regulations of the Animal Protection Act 1962 (Act No. 71 of 1962). Workers should also be advised on the penalties associated with the needless destruction of wildlife, as set out in this act.
	The activity is not considered to cause a significant environmental impact during the operational phase.		be implemented together with the EMPr.
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
Alternative	3		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
No-go optio	Dn	L	
	Direct impacts:		
	The no-development option would result in a lost opportunity for The Lair Trust and the local economy.	Positive impact	
	Indirect impacts:		
	Cumulative impacts:		

A complete impact assessment in terms of Regulation 19(3) of GN 733 must be included as Appendix F.

ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment <u>after</u> the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

Alternative A (preferred alternative)

The following is a summary of the potential impacts, and their ratings after mitigation, and probability of occurrence:

Construction phase.

Freshwater ecosystems

Impact on Flora - Low Negative

A part of the site falls within an ESA. However, the site has been degraded due to past agricultural activities (grazing).

Impact on Fauna – Low - Negative

Socio-economic aspects

Creation of employment opportunities – low Positive.

Potential impacts on cultural - heritage resources

Impacts at the proposed development: Low negative

The Archaeological Impact Assessment concluded that it is unlikely that significant archaeological heritage has been impacted by the established vineyards, since the site had already been grazed by livestock prior to development of the vineyards; although it should be noted that relatively large number of banded ironstone Middle Stone Age Tools were recorded on undeveloped land south of the unlawful vineyards.

Noise impact – Low negative

Visual impact – Very Low Negative

The site is situated next to existing vineyards.

Operational Phase

Freshwater ecosystems

Stormwater run-off: Low Negative

Impact on Flora - Low Negative

Impact on Fauna - negligible

Socio-economic aspects

 Creation of on and off-site employment – Medium Positive Seasonal employment opportunities (during harvesting of grapes). Potential impacts on cultural - heritage resources - No impacts expected

Noise impact - Low Negative

Visual impact - No impact expected

Alternative B

Alternative C

No-go alternative (compulsory)

This would mean that no development would take place and the proposed site will remain as is (degraded).

According to the Kai !Garib Municipality IDP 2014, the agricultural sector is still the main economic sector who made the biggest contribution (51.8 %) to the economy of Kai !Garib in 2010. The Agriculture sector is also a major employer in the Municipality, providing 66.5% of all formal employment. It is also the sector with the largest potential for economic growth. The commercial farmers farm especially with grapes for export, raisins and wine, while citrus types of fruit are also becoming more prevalent in the area.

The capital value on completion of the activity (establishment of vineyards and grape production) as well as the expected yearly income and value of the employment opportunities would not be achieved. Although this option would result in no potential negative environmental impacts, the significant social benefits from implementing the activity would not be achieved.

The no-go option would only have been recommended if it were found that the proposed activities on this site or in this area might potentially cause substantial detrimental harm to the surrounding environment.

The No-Development option would therefore represent a lost opportunity for Augrabies and the local economy. This would represent a negative social cost.

The No-Development option would therefore represent a significant missed opportunity and is therefore not considered to be the most feasible or reasonable alternative.

SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto		
sufficient to make a decision in respect of the activity applied for (in the view of the	YES	NO
environmental assessment practitioner)?		

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment).

No further assessments required

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application.

Compliance with the EMPr and appointment of an ECO during the construction phase.

The general recommendations and mitigation measures outlined in the BAR, EMPr and specialist reports should be implemented.

It must also be noted that if any other listed activities in terms of the NEMA EIA Regulations are triggered by the established vineyards that are not included in this application (S24G Application and NEMA Application), application for authorisation will need to be obtained first.

Is an EMPr attached?

YES

NO

The EMPr must be attached as Appendix G.

The details of the EAP who compiled the BAR and the expertise of the EAP to perform the Basic Assessment process must be included as Appendix H.

If any specialist reports were used during the compilation of this BAR, please attach the declaration of interest for each specialist in Appendix I.

Any other information relevant to this application and not previously included must be attached in Appendix J.

Emile Esquire

NAME OF EAP

SIGNATURE OF EAP

DATE

SECTION F: APPENDIXES

The following appendixes must be attached:

Appendix A: Maps

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports (including terms of reference)

Appendix E: Public Participation

Appendix F: Impact Assessment

- Appendix G: Environmental Management Programme (EMPr)
- Appendix H: Details of EAP and expertise
- Appendix I: Specialist's declaration of interest
- Appendix J: Additional Information