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

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	(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?

YES

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

Hantam Veevoere is an animal feed manufacturer and provides facilities to house livestock in a concentrated form. Thus, animals are raised until they reach the correct weight for the meat market. The development and related operation of facilities or infrastructure for the concentration of animals for commercial production. All constructed development took place from 2013 to 2015 (this includes the chicken pens, pig pens, any new sheep paddocks which may have been constructed, as well as the drying area for solid waste emanating from animal pen washing and the constructed slurry pit/septic tank for the residual liquid waste emanating from the animal pen washing). The retention of livestock and poultry on site for commercial purposes took place from 2013 to date. The applicant made use of an existing shed to house sheep, which was also used by the previous owner of the property. The existing sheep feedlot was extended, by the applicant, to increase the capacity of sheep on site. The existing capacity of the sheep feedlot is 3000 Large Stock Unit (LSU). Chicken pens with a capacity to hold 2000 chicks were developed on Erf 3000. Pig pens that have been/ will be developed that have the capacity for 100 sows, including holding approximately 50 boars and each sow's piglets. The livestock are going to be sold to the local meat market of Calvinia and surrounding areas. The development and expansion of Hantam Veevoere is located adjacent to the R27 on Erf 3000, Calvinia, Northern Cape with the following site Co-Ordinates: 31°27'52.99"S, 19°47'31.78"E.

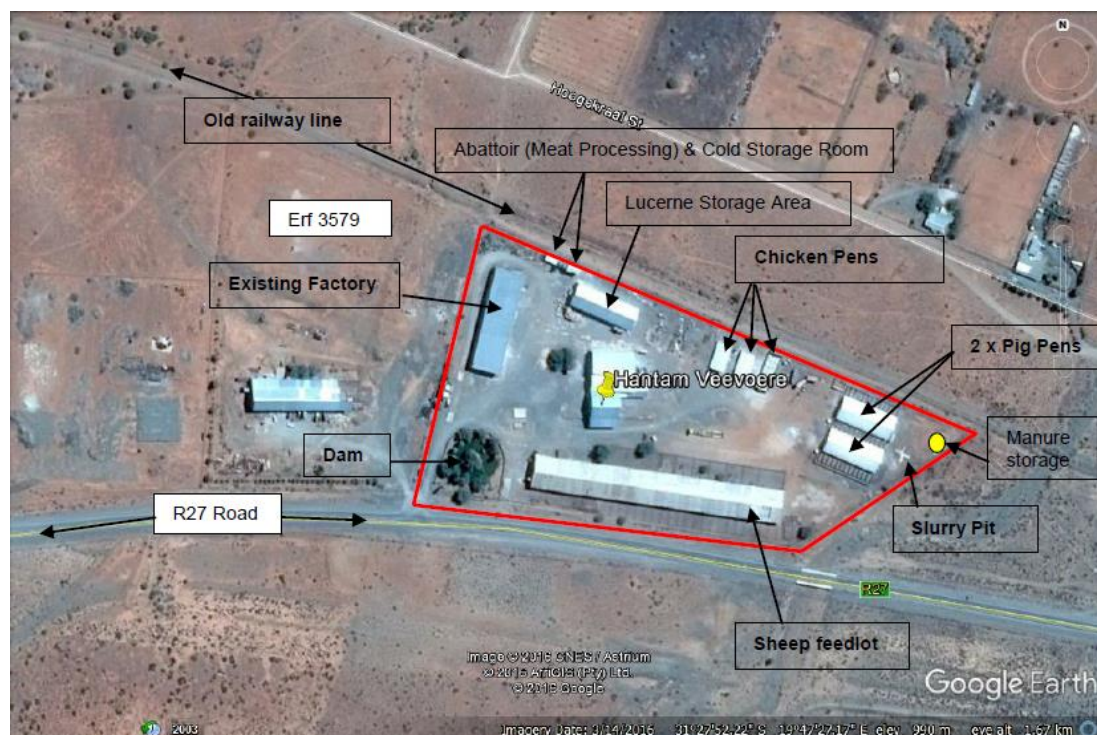


Figure 1: Google Earth aerial image showing the location of the proposed site (red polygon).

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

Listed activity as described in GNR 327, and 324	Description of project activity
Government Notice No. R. 327 Activity No(s): (Listing Notice 1 of 2014)	
<p>3 - The development and related operation of facilities or infrastructure for the slaughter of animals with a -</p> <p>(i) product throughput of poultry exceeding 50 poultry per day;</p> <p>(ii) product throughput of reptiles, game and red meat exceeding 6 units per day; or</p> <p>wet weight product throughput of fish, crustaceans and amphibians exceeding 20 000 kg per annum.</p> <p>4 - The development and related operation of facilities or infrastructure for the concentration of animals for the purpose of commercial production] in densities that exceed—</p> <p>(i) 20 square metres per large stock unit and more than 500 units per facility;</p> <p>(ii) 8 square meters per small stock unit and;</p> <p>a. more than 1 000 units per facility excluding pigs where (b) applies; or</p> <p>b. more than 250 pigs per facility excluding piglets that are not yet weaned;</p> <p>(iii) 30 square metres per crocodile [at any level of production, excluding crocodiles younger than 6 months] and more than 20 crocodiles per facility;</p> <p>(iv) 3 square metres per rabbit and more than 500 rabbits per facility; or</p> <p>(v) 250 square metres per ostrich or emu and more than 50 ostriches or emus per facility.</p> <p>5 - The development and related operation of facilities or infrastructure for the concentration of—</p> <p>(i) more than 1 000 poultry per facility situated within an urban area, excluding chicks younger than 20 days;</p> <p>(ii) more than 5 000 poultry per facility situated outside an urban area, excluding chicks younger than 20 days;</p> <p>(iii) more than 5 000 chicks younger than 20 days per facility situated within an urban area; or</p> <p>(iv) more than 25 000 chicks younger than 20 days per facility situated outside an urban area.</p>	<p>Hantam Veevoere is an animal feed manufacturer and provides facilities to house livestock in a concentrated form. Thus, animals are raised until they reach the correct weight for the market.</p> <p>In addition, the applicant used an existing building on Erf 3000 as a small meat processing area (abattoir) for the slaughter of chickens, together with a cold storage area; without the required authorisation.</p> <p>A sheep feedlot which is 3000 Large Stock Unit (LSU) on Erf 3000. Chicken pens with a combined capacity to hold 2000 chicks were developed on the Erf 3000. Two pig pens have been developed that have the capacity for 100 sows, including holding approximately 50 boars and each sow's piglets.</p> <p>This development and expansion of Hantam Veevoere is located adjacent to the R27 on Erf 3000 and Erf 3579, Calvinia, Northern Cape with the following site Co-Ordinates: 31°27'52.99"S, 19°47'31.78"E.</p> <p>The development and related operation of facilities or infrastructure for the concentration of animals for commercial production. All constructed development took place from 2013 to 2015 (this includes the chicken pens, pig pens, any new sheep paddocks which may have been constructed, as well as the drying area for solid waste emanating from animal pen washing and the constructed slurry pit/septic tank for the residual liquid waste emanating from the animal pen washing).</p>

<p>12 - The development of;</p> <p>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area, exceeds 100 square metres;</p> <p>(ii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs;</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p> <p>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>excluding:</p> <p>(aa) the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour;</p> <p>(bb) where such development activities are related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies;</p> <p>(cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies;</p> <p>(dd) where such development occurs within an urban area; or</p> <p>(ee) where such development occurs within existing roads or road reserves or railways line reserves; or</p> <p>(ff) The development of temporary infrastructure or structures where such infrastructure or structures will be removed within 6 weeks of the commencement of development and where indigenous vegetation will not be cleared.</p> <p>67 - Phased activities for all activities</p> <p>(ii) 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;</p> <p>excluding the following activities listed in this Notice;</p> <p>17(i)(a-d); 17(ii)(a-d); 17(iii)(a-d); 17(iv)(a-d); 17(v)(a-d);</p> <p>20; 21; 22; 24(i); 29; 30; 31; 32; 34; 54(i)(a-d); 54(ii)(a-d); 54(iii)(a-d); 54(iv)(a-d); 54(v)(a-d);</p> <p>55; 61; 64; and 65, or</p> <p>(ii) listed as activities 5, 7, 8(ii) 11, 13, 16, 27(i) or 27(ii) in Listing Notice 2 of 2014 or similarly listed in any of the previous NEMA notices, which commenced on or after the effective date of such previous NEMA Notices</p> <p>where any phase of the activity was below a threshold but where a combination of the phases, including expansions or extensions, will exceed a specified threshold;</p>	<p>The development and associated infrastructure has a combined footprint of more than 100 m² within 32m of a watercourse. The pig pens and the animal manure/ waste storage area is located within 32m of the watercourse east of the site.</p> <p>The development and related operation of facilities or infrastructure for the concentration of animals for commercial production. All constructed development took place from 2013 to 2015 (this includes the chicken pens, pig pens, any new sheep paddocks which may have been constructed, as well as the drying area for solid waste emanating from animal pen washing and the constructed slurry pit/septic tank for the residual liquid waste emanating from the animal pen washing).</p>
Government Notice No. R. 324 Activity No(s):	

(Listing Notice 3 of 2014)	
<p>3 - The development and related operation of facilities or infrastructure for the slaughter of animals with a -</p> <p>(iii) product throughput of poultry exceeding 50 poultry per day;</p> <p>(iv) product throughput of reptiles, game and red meat exceeding 6 units per day; or</p> <p>wet weight product throughput of fish, crustaceans and amphibians exceeding 20 000 kg per annum.</p> <p>26 - Phased activities for all activities</p> <p>i. listed in this Notice and as it applies to a specific geographical area, which commenced on or after the effective date of this Notice; or</p> <p>ii. similarly listed in any of the previous NEMA notices, and as it applies to a specific geographical area, which commenced on or after the effective date of such previous NEMA Notice</p> <p>where any phase of the activity was below a threshold but where a combination of the phases, including expansions or extensions, will exceed a specified threshold;</p> <p>excluding the following activities listed in this Notice;</p> <p>7; 8; 11; 13; 20; 21; and 24.</p>	<p>The applicant used an existing building on Erf 3000 as a small meat processing area (small abattoir) for the slaughter of chickens, together with a cold storage area; without the required permits/ authorisations in place.</p> <p>The development and related operation of facilities or infrastructure for the concentration of animals for commercial production. All constructed development took place from 2013 to 2015 (this includes the chicken pens, pig pens, any new sheep paddocks which may have been constructed, as well as the drying area for solid waste emanating from animal pen washing and the constructed slurry pit/septic tank for the residual liquid waste emanating from the animal pen washing).</p>

• 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

No other site alternatives were considered because the site is located on the property of the applicant; it is next to the R27 which is the main road.

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)
N/A		

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

Latitude (S):

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)
<p><u>Rectification for the unlawful development and expansion of Hantam Veevoere, Erf 3000, Calvinia, Northern Cape</u></p> <p>Hantam Veevoere is an animal feed manufacturer and provides facilities to house livestock in a concentrated form. Thus, animals are raised until they reach the correct weight for the market.</p> <p>The development and related operation of facilities or infrastructure for the concentration of animals for commercial production. All constructed development took place from 2013 to 2015 (this includes the chicken pens, pig pens, any new sheep paddocks which may have been constructed, as well as the drying area for solid waste emanating from animal pen washing and the constructed slurry pit/septic tank for the residual liquid waste emanating from the animal pen washing).</p> <p>The applicant made use of an existing shed to house sheep, which was also used by the previous owner of the property. The existing sheep feedlot was extended, by the applicant, to increase the capacity of sheep on site. The existing capacity of the sheep feedlot is 3000 Large Stock Unit (LSU). Chicken pens with a capacity to hold 2000 chicks were developed on Erf 3000. Pig pens that have been/ will be developed that have the capacity for 100 sows, including holding approximately 50 boars and each sow's piglets.</p> <p>The livestock are going to be sold to the local meat market of Calvinia and surrounding areas. Please refer to figure 1 for the site layout.</p>	31°27'52.99"S	19°47'31.78"E.
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)
No other alternatives were assessed prior to construction activities; hence this section 24G rectification application.		
Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)

c) Technology alternatives

No technology alternatives were considered prior to the unlawful development and expansion of Hanta Veevoere.

Alternative 1 (preferred alternative)

Alternative 2
Alternative 3

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

N/A. No other alternative has been investigated prior to the submission of this Section 24G rectification application. No alternatives were considered during the unlawful construction of infrastructure for the concentration of livestock on Erf 3000, Calvinia. The best alternative would have been the No-go alternative. This would imply that no construction activities would have commenced, with no potential environmental impact.

Alternative 1 (preferred alternative)
Alternative 2
Alternative 3

e) No-go alternative

The no-go option would be the option of not expanding the Hantam Veevoere.

The capital value on completion of the activity (expanding Hantam Veevoere) 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 the applicant 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. The no-go option would only have been recommended if it were found that the construction of the proposed development on this site or in this area might potentially cause substantial detrimental harm to the environment.

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)

Size of the activity:

Approximately 12 084
m ²

or, for linear activities:

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Length of the activity:

	m
	m
	m

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

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Size of the site/servitude:

	m ²
	m ²
	m ²

• **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:

Access to the site will be gained via the R27 road. Please see figure 2 below.



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):

<ul style="list-style-type: none"> • Is the activity permitted in terms of the property's existing land use rights? 	YES	NO	Please explain
Hantam Veevoere is manufacturing animal feed/ pellets for farmers in the Calvinia area and the property is zoned Industrial 2 (see Appendix J1). The activities on site involves the concentration of livestock and would probably require a consent use from the local municipality.			
<ul style="list-style-type: none"> • Will the activity be in line with the following? 			
(a) Provincial Spatial Development Framework (PSDF)	YES	NO	Please explain
<p>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.</p> <p>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:</p> <ol style="list-style-type: none"> 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. <p>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 Hantam Veevoere therefore is to ensure that this development is undertaken in the most effective and sustainable manner possible.</p>			
(b) Urban edge / Edge of Built environment for the area	YES	NO	Please explain
The site is located inside the urban area of Calvinia. Please refer to Appendix J4.			

(c) Integrated Development Plan (IDP) and Spatial Development Framework (SDF) of the Local Municipality (e.g. would the approval of this application compromise the integrity of the existing approved and credible municipal IDP and SDF?).	YES	NO	Please explain
<p>According to the Hantam Municipality IDP 2015-2016, the Hantam area consists largely of non-arable, low potential grazing land and is therefore ideally suited to sheep farming. Agricultural activities that can therefore take place in the Hantam, include:</p> <ul style="list-style-type: none"> • Sheep farming for meat and wool; and beneficiation plants of sheep farming (sheep skin and offal), etc. <p>The property is zoned Industrial 2 and is totally transformed due to past development and agricultural activities. In addition, the applicant bought the property with the intention of establishing infrastructure for the concentration on livestock on his property. The applicant indicates that by undertaking the development he will be able to provide meat products to the local retailers and would also contribute to local food security in Calvinia and surrounding area. It is unlikely that the activity would have a negative impact on the Municipality's IDP or PSDF.</p>			
(d) Approved Structure Plan of the Municipality	YES	NO	Please explain
Unknown			
(e) An Environmental Management Framework (EMF) adopted by the Department (e.g. Would the approval of this application compromise the integrity of the existing environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?)	YES	NO	Please explain
<p>The unlawful development and expansion of Hantam Veevoere is not considered to have a negative impact on Namakwa District Municipality's EMF. The approval of the development will not compromise the integrity of the existing environmental management priorities for the area, because the site is already completely transformed from its original state. Development must be guided by the constraints offered by the site and must ensure that adequate provision is made for protection of environmental features.</p>			
(f) Any other Plans (e.g. Guide Plan)	YES	NO	Please explain
• 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
<p>The property is zoned Industrial 2 and is totally transformed by past activities. In addition, the applicant bought the property with the intention of establishing infrastructure for the concentration on livestock on his property. The applicant indicates that by undertaking the development he will be able to provide meat products to the local retailers and would also contribute to local food security in the Calvinia area. It is unlikely that the activity would have a negative impact on the Municipality's IDP or</p>			

PSDF.			
<ul style="list-style-type: none"> 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	Please explain
<p>The activities entail development and related operation of facilities or infrastructure for the concentration of animals for commercial production. The applicant indicates that he commenced with the concentration and production of livestock to be sold on the meat market. The site is also used for the manufacturing of animal feed/ pellets for farmers in the Calvinia area. The applicant indicates that by undertaking the development he will be able to provide meat products to the local retailers and would also contribute to local food security in the Calvinia area. According to the Hantam Municipality IDP 2015-2016, the Hantam area consists largely of non-arable, low potential grazing land and is therefore ideally suited to sheep farming. Agriculture activities that can therefore take place in the Hantam, include:</p> <ul style="list-style-type: none"> • Sheep farming for meat and wool; and beneficiation plants of sheep farming (sheep skin and offal), etc. The property is zoned Industrial 2 and is totally transformed by past activities. In addition, the applicant bought the property with the intention of establishing infrastructure for the concentration on livestock on his property. <p>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-line, 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".</p>			
<ul style="list-style-type: none"> Are the necessary services with adequate capacity currently available (at the time of application), or must additional capacity be created to cater for the development? (Confirmation by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.) 	YES	NO	Please explain
<p>The availability of services with adequate capacity (sewerage, solid waste disposal and water) still needs to be confirmed. The municipality is expected to be the service provider, although additional service providers may be required. Currently there is sufficient water available for the development. Please see Appendix J4 for the confirmation letter from Hantam Municipality.</p>			
<ul style="list-style-type: none"> 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 municipality (priority and placement of services and opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.) 	YES	NO	Please explain
<p>This development is not expected to have a significant impact on infrastructure plans for the Municipality. Comment will be obtained from the local municipality and attached to the final S24G</p>			

EIR as Appendix I.			
<ul style="list-style-type: none"> Is this project part of a national programme to address an issue of national concern or importance? 	YES	NO	Please explain
<p>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 <i>"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-line, 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"</i>.</p>			
<ul style="list-style-type: none"> 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
<p>Yes. The site is located on an existing property that is zoned Industrial 2. Erf 3000 is totally transformed from its natural state due to past development activities on the property. The site is easily accessible, as the R27 road is located to the south of the site. The nearest residential dwelling is approximately 120m north of the site. The predominant wind direction in Calvinia is a west wind, blowing from west to east.</p>			
<ul style="list-style-type: none"> Is the development the best practicable environmental option for this land/site? 	YES	NO	Please explain
<p>Although the proposed development will have some potential environmental impacts, these are of low negative at this stage.</p> <p>The best environmental option would be the no-go alternative. However, the social benefits of the proposed project would not be realised. The site was in a degraded state prior to the unlawful commencement.</p> <p>With appropriate measures, as per the recommendations and the Environmental Management Programme ("EMPr"), any potential negative environmental impacts are expected to be satisfactorily mitigated.</p>			
<ul style="list-style-type: none"> Will the benefits of the proposed land use/development outweigh the negative impacts of it? 	YES	NO	Please explain
<p>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 development resulted in some negative odour impacts. The impact of odours is of low-negative at this stage. The socio-economic benefits are expected to outweigh these environmental impacts.</p>			
<ul style="list-style-type: none"> Will the proposed land use/development set a precedent for similar activities in the area (local municipality)? 	YES	NO	Please explain
<p>The activity is not expected to set a precedent. However, an environmental authorisation had to be obtained prior to the undertaking of the listed activities. Therefore, this S24G rectification application.</p>			

<ul style="list-style-type: none"> Will any person's rights be negatively affected by the proposed activity/ies? 	YES	NO	Please explain
<p>The activity is expected to have a general positive impact on the residents of the area (through employment opportunities). However, the development will have a low negative impact in terms of odours, and could possibly affect the neighbouring land owners/ residents. The development could possibly affect the property values of the surrounding neighbours if not properly managed through the EMP. However, the nearest residential dwelling is approximately 120m north of the site.</p>			
<ul style="list-style-type: none"> Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality? 	YES	NO	Please explain
<p>The development is located inside the urban edge. The site is located within an urban area of Calvinia and is zoned Industrial 2 (see appendix J1 and J4).</p>			
<ul style="list-style-type: none"> Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPs)? 	YES	NO	Please explain
<p>Yes, 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-line, 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".</p>			
<ul style="list-style-type: none"> What will the benefits be to society in general and to the local communities? 	Please explain		
<p>The development and related operation of facilities or infrastructure for the concentration of animals for commercial production. The applicant indicates that he commenced with the concentration and production of livestock to be sold on the meat market. The site is also used for the manufacturing of animal feed/ pellets for farmers in the Calvinia area. Calvinia is known for its annual meat festival that occurs every August. The applicant indicates that by undertaking the development he will be able to provide meat products to the local retailers and would also contribute to local food security in the Calvinia area. According to the Hantam Municipality IDP 2015-2016, the Hantam area consists largely of non-arable, low potential grazing land and is therefore ideally suited to sheep farming. Agriculture activities that can therefore take place in the Hantam, include:</p> <ul style="list-style-type: none"> • Sheep farming for meat and wool; and beneficiation plants of sheep farming (sheep skin and offal), etc. The property is zoned as Industrial 2 and is totally transformed by past activities. In addition, the applicant bought the property with the intention of establishing infrastructure for the concentration on livestock on his property. <p>The proposed activity would likely have a positive socio-economic impact on the local economy through the provision of much needed employment in the area. The applicant indicates that 15 employment opportunities will be created by the development and is expected to increase over time.</p>			
<ul style="list-style-type: none"> Any other need and desirability considerations related to the proposed activity? 	Please explain		
N/A			

<ul style="list-style-type: none"> • 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.	
<ul style="list-style-type: none"> • Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account. 	
<p>The general objectives of Integrated Environmental Management have been taken into account through the following:</p> <ul style="list-style-type: none"> - 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 – <i>please refer to Section D below.</i> - The effects of the activity on the environment have been considered before actions taken in connection with them – <i>alternatives have been considered and investigated (please refer to Section A below).</i> - Adequate and appropriate opportunity for public participation was ensured through the public participation process – <i>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.</i> - The environmental attributes have been considered in the management and decision-making of the activity – <i>an EMPr has been included (Appendix G) with the proposed activity and must adhere to the requirements of all applicable state Authorities.</i> 	
<ul style="list-style-type: none"> • Please describe how the principles of environmental management as set out in section 2 of NEMA have been taken into account. 	
<p>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:</p> <ul style="list-style-type: none"> - People and their needs have been placed at the forefront while serving their physical, psychological, developmental, cultural and social interests – <i>the proposed activity will have a significant beneficial impact on people, as it will provide much needed economic opportunities.</i> - 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 – <i>no exploitation of non-renewable natural resources occurs with the proposed activity.</i> - 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 - <i>refer to Section F below.</i> - The interests, needs and values of all interested and affected parties have been taken into account in any decisions through the Public Participation Process – <i>please refer to Section C for the public participation information.</i> - The social, economic and environmental impacts of the activity have been considered, assessed and evaluated, including the disadvantages and benefits – <i>refer to Section B below.</i> - 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 – <i>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.</i> 	

• **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
NEMA EIA Regulations	Department of Environment and Nature Conservation ("D:ENC").	Environmental Authorisation	Not yet
SPLUMA	Hantam Municipality	Possible consent use	Not yet
Meat Safety Act, 2000 (Act 40 of 2000) and the Red Meat Regulations, 2004	Department of Agriculture	Permit	Not yet
Guidelines for the handling, treatment and disposal of abattoir waste, 2001	Abattoir waste	Department of Agriculture, Forestry & Fisheries	Not yet
National Water Act (Act 36 of 1998).	Commenting Authority	Department of Water and Sanitation ("DWS").	
National Heritage Resources Act, 1999 (Act 25 of 1999)	SAHRA	Consent	Not yet

• **WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT**

a) **Solid waste management**

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

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

Approximately 10m³ of solid waste were created during the construction phase, mainly building rubble. The animal manure from livestock (i.e. the solid waste emanating from the washing of animal pens gets dried in the north-eastern corner of the property) gets later turned into fertilisers. An amount of solid/ domestic waste equivalent to two wheelie bins (2 x 240L) will be created per week during the operational phase. Animal manure will be generated during the operation phase.

YES	NO
Approximately 20m ³	

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

The general solid waste generated during construction phase were consolidated on site, and disposed of at the approved municipal landfill site. The animal manure from livestock (i.e. the solid waste emanating from the washing of animal pens and dried in the north-eastern corner of the property) gets turned into fertilisers. A slurry pit is used for separating the solids from the liquid waste on site. The constructed slurry pit/ septic tank for the residual liquid waste emanating from the animal pen washing, will be periodically emptied by the local Municipality.

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

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

Will the activity produce solid waste during its operational phase?

- If YES, what estimated quantity will be produced per month? – Approximately 20m³.

YES	NO
	20m ³

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

The general solid waste generated during construction phase were consolidated on site, and disposed of at the approved municipal landfill site. The animal manure from livestock (i.e. the solid waste emanating from the washing of animal pens and dried in the north-eastern corner of the property) gets turned into fertilisers. A slurry pit is used for separating the solids from the liquid waste on site. The constructed slurry pit/ septic tank for the residual liquid waste emanating from the animal pen washing, will be periodically emptied by the local Municipality.

The solid waste generated during the operational phase will be collected by the applicant and will be disposed of at the nearest approved municipal landfill site.

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

The solid waste generated during the operational phase will be collected by the applicant and will be disposed of at the nearest approved municipal landfill site.

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

The solid waste generated during the operational phase will be collected by the applicant and will be disposed of at the nearest approved municipal landfill site.

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?

YES	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?

YES	NO
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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?

Yes. The animal manure from livestock (i.e. the solid waste emanating from the washing of animal pens and dried in the north-eastern corner of the property) gets turned into fertilisers. A slurry pit is used for separating the solids from the liquid waste on site. The constructed slurry pit/ septic tank for the residual liquid waste emanating from the animal pen washing; will be periodically emptied by the local Municipality.

YES	NO
-----	----

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.

20m ³	
YES	NO

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

If YES, provide the particulars of the facility:

YES	NO
-----	----

Facility name:

Contact

person:

Postal

address:

Postal code:

Telephone:

E-mail:

	Cell:	
	Fax:	

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

The animal manure from livestock (i.e. the solid waste emanating from the washing of animal pens and dried in the north-eastern corner of the property) gets turned into fertilisers. A slurry pit is used for separating the solids from the liquid waste on site. The constructed slurry pit/ septic tank for the residual liquid waste emanating from the animal pen washing; will be periodically emptied by the local Municipality. The treatment of sewage on-site at this stage is considered not feasible for the applicant, as the Municipality collects the sewage from the property.

c) Emissions into the atmosphere

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

If YES, is it controlled by any legislation of any sphere of government?

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:

YES	NO
YES	NO

This application is for the rectification for the unlawful development and expansion of Hantam Veevoere. Hantam Veevoere is an animal feed manufacturer and provides facilities to house livestock in a concentrated form. Thus, animals are raised until they reach the correct weight for the market. The activities are not going to produce emissions into the atmosphere.

Odours

The most noticeable impact is that if odours emanating from the concentration of livestock on the site, especially the pig manure when combined with chicken and sheep manure. The manure from livestock gets stored and dried at north-eastern corner of the property; and gets turned into fertilisers. The closest residential dwelling is approximately north of the site. The Environmental Management Programme (EMPr) will be implemented to managed odours on site.

d) Waste permit

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

YES	NO
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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?

YES	NO
-----	----

If YES, is it controlled by any legislation of any sphere of government?

YES	NO
-----	----

Describe the noise in terms of type and level:

The activity produced localised noise during the construction stage, and was limited to normal working hours (08:00 – 17:00). The activity is unlikely to produce significant noise levels during the operational phase due to its locality. The sheep feedlot that has been extended by the applicant, had also been used by the previous owner of the property. There is an existing factory on the property. Localised noise will be generated during the operational phase, and is negligible. The nearest residential dwelling is approximately 120m north of the site. However, the EMPr will be implemented to reduce the amount of noise that will be generated during the operational phase.

• 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
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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:

- Approximately 5000 to 10000 litres per day.

Approximately
5000 – 10000
litres per day

Does the activity require a water use authorisation (general authorisation or water use license) from the Department of Water Affairs?

YES	NO
-----	----

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:

No energy efficiency measures were considered during the unlawful development and expansion of Hantam Veevoere.

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

No alternative energy sources were considered during the unlawful development and expansion of Hantam Veevoere.

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):	
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- 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
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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 description/physical address:	Province	Northern Cape		
	District Municipality	Namakwa District Municipality		
	Local Municipality	Hantam Local Municipality		
	Ward Number(s)	1		
	Farm name and number	Erf 3000		
	Portion number			
	SG Code	C01500020000300000000		
	Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application including the same information as indicated above.			
Current land-use zoning as per local municipality IDP/records:	Industrial 2			
	In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.			
Is a change of land-use or a consent use application required?		<table border="1"> <tr> <td>YES</td> <td>NO</td> </tr> </table>	YES	NO
YES	NO			

- 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
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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
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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
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- 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		2.5 Open valley		2.8 Dune	
2.3 Side slope of hill/mountain		2.6 Plain	x	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:		Alternative S2 (if any):		Alternative S3 (if any):	
Shallow water table (less than 1.5m deep)	YES	NO	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	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.

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 in good condition^E	Natural veld with scattered aliens^E	Natural veld with heavy alien infestation^E	Veld dominated by alien species^E	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.

• 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	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.

Karee River, Classified as Moderately Modified on the National Freshwater Ecosystem Priority Areas (NFEPA) map (see below), located adjacent to the site. The site maybe located within 32m of the watercourse.

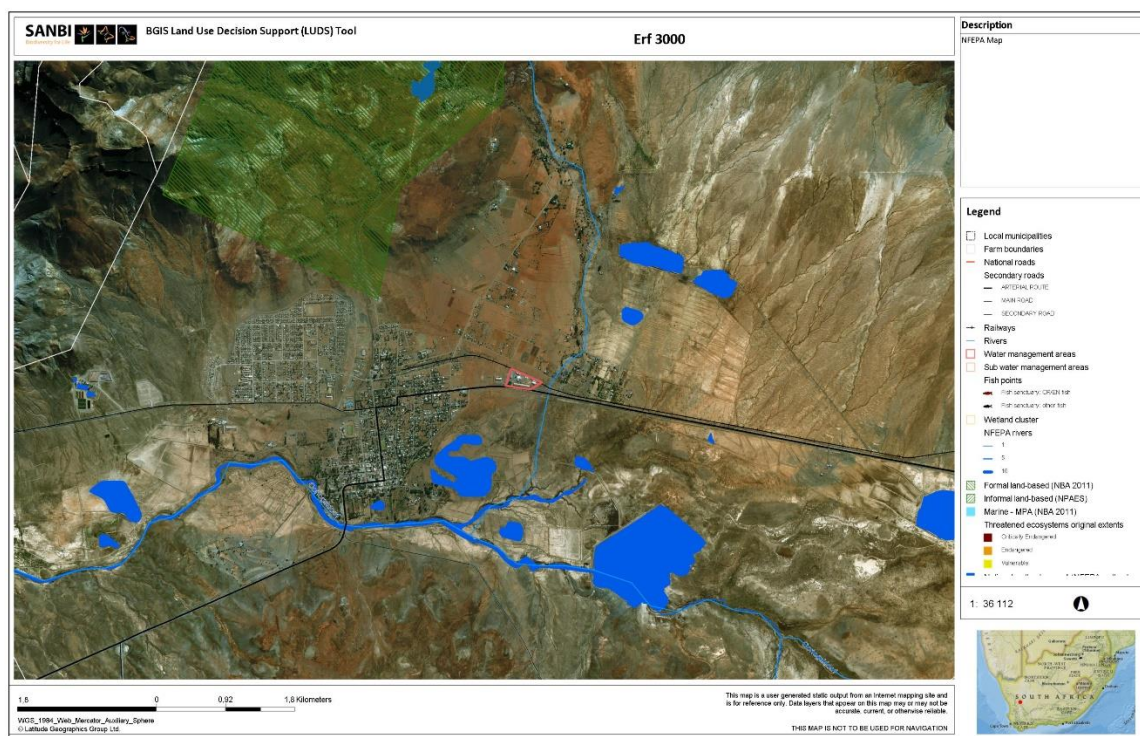


Figure 3: NFEPA Map showing the location of the site (red polygon) in relation to the Karee River.

• 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 ^H
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 base/station/compound	Harbour	Graveyard

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:

There is an old railway line 13m north of the site. The development will have no impact on the old railway line since vehicles is used as the mode of transport at the facility.

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 or ESA. The site would historically have been covered by Bokkeveld Sandstone Fynbos (*Vulnerable*), however, there is no natural vegetation present on the site. But because of the property being completely transformed the impacts will not be of significance because there is no natural vegetation present on the site. Please refer to Appendix A.

• CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in 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 site? If YES, explain:	YES	NO
	Uncertain	

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:

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.		

• **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:

Unemployment and poverty affects a large number of people within the municipal area. The unemployment rate for the youth is 15, 3% according to the 2011 census. Of the 7 085 economically active people in the municipal area, 11, 8 % are unemployed (Stats SA).

Economic profile of local municipality:

According to the Hantam Municipality IDP 2015-2016, agriculture forms the backbone of the economy in the municipal area and this sector has the most employment opportunities. Despite the harsh climate and poor carrying capacity of the veld, it still offers opportunities for growth and employment creation. 11% of the GDP contribution in the Hantam Municipality is attributed to Agriculture.

The sectors that contributed the most to the Hantam economy, according to the draft Hantam Integrated Development Plan 2015 – 2020, are:

- 1) Finance, insurance, real estate and business services (23.1%);
- 2) General Government (18.4%);
- 3) Community, social and personal services (14.7%);
- 4) Agriculture, forestry and fishing (11%);
- 5) Transport, storage and communication (10.8%).

Please see figure 4 below.

Hantam - Integrated Development Plan: 2015-2020

	Northern Cape	Namakwa DM	Hantam LM
Agriculture, forestry & fishing	6.2%	4.5%	11.0%
Mining & quarrying	23.4%	34.9%	1.2%
Manufacturing	3.6%	2.2%	4.5%
Electricity, gas & water	2.1%	1.1%	3.4%
Construction	1.7%	2.4%	3.0%
Wholesale & retail trade, catering & accommodation	11.7%	9.5%	9.9%
Transport, storage & communication	10.2%	10.7%	10.8%
Finance, insurance, real estate & business services	15.3%	11.0%	23.1%
Community, social & personal services	10.7%	11.9%	14.7%
General government	15.1%	11.8%	18.4%
Total	100%	100%	100%

Figure 4: The GDP contribution of Hantam.

Level of education:

According to CENSUS 2011, Hantam Municipality has a total population of 21 578. Of those aged 20 years and older, 18,8% completed Grade 12; 19,7% have some primary education; 8,4% completed primary education; 30,6% completed some secondary education; 8,1% have some higher education and only 14,4% had no schooling.

b) Socio-economic value of the activity

What is the expected capital value of the activity on completion?	R3 000 000	
What is the expected yearly income that will be generated by or as a result of the activity?	R3 000 000	
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 development and construction phase of the activity/ies?	15	
What is the expected value of the employment opportunities during the development and construction phase?	R500 000 – R800 000 per year	
What percentage of this will accrue to previously disadvantaged individuals?	85%	
How many permanent new employment opportunities will be created during the operational phase of the activity?	15	
What is the expected current value of the employment opportunities during the first 10 years?	Unknown at this stage	
What percentage of this will accrue to previously disadvantaged individuals?	85%	

- **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)**

Systematic Biodiversity Planning Category				If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan
Critical Biodiversity Area (CBA)	Ecological Support Area (ESA)	Other Natural Area (ONA)	No Natural Area Remaining (NNR)	The site is not located within a CBA or ESA according to the SANBI BGIS website (See figure 5 below).

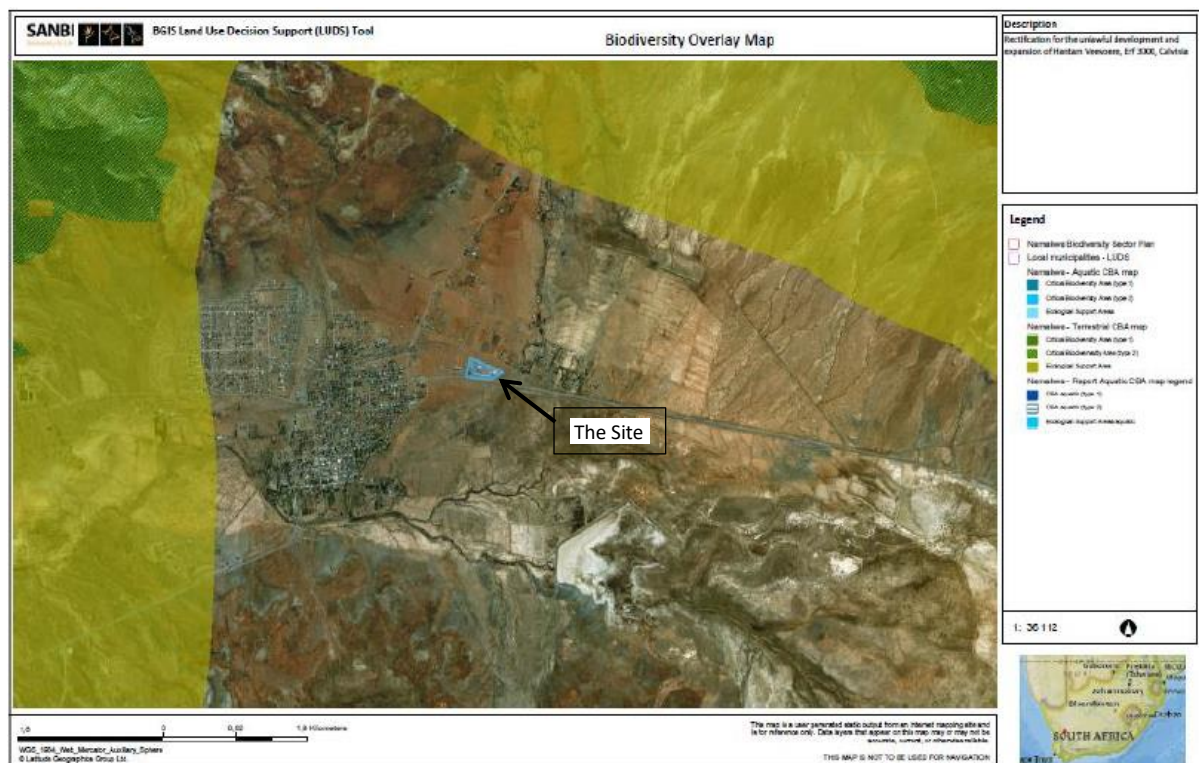


Figure 5: SANBI BGIS CBA Map showing that the site does not fall within an ESA or ECA.

b) Indicate and describe the habitat condition on site

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%	
Near Natural (includes areas with low to moderate level of alien invasive plants)	0%	
Degraded (includes areas heavily invaded by alien plants)	0%	
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	100 %	The site is totally transformed from its natural state due to past development activities on the property. The site is in a degraded state with no natural vegetation present. Please see Appendix B for the site photographs.

c) Complete the table to indicate:

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

Terrestrial Ecosystems		Aquatic Ecosystems							
Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	Critical	Wetland (including rivers, depressions, channelled and unchanneled wetlands, flats, seeps pans, and artificial wetlands)			Estuary		Coastline		
	Endangered								
	Vulnerable								
	Least Threatened	YES	NO	UNSURE	YES	NO	YES	NO	

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 two 1 broad vegetation type is expected in the vicinity of the proposed site, namely Lower Bokkeveld Sandstone Fynbos Vegetation and have an ecosystem threat status as Vulnerable. However, there are no natural vegetation left on the already transformed land. Please see figure 6 below and Appendix A.

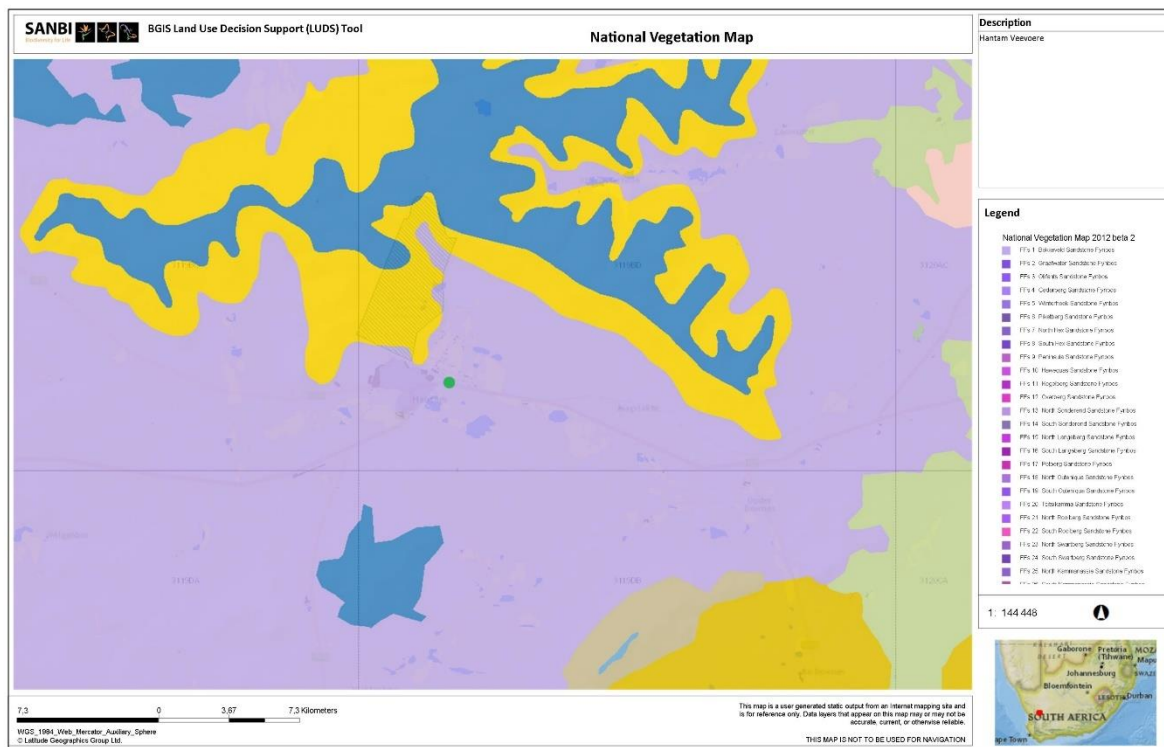


Figure 6: SANBI BGIS map showing the vegetation cover of the area.

SECTION C: PUBLIC PARTICIPATION

• ADVERTISEMENT AND NOTICE

Publication name	Noordwester	
Date published	14 July 2016	
Site notice position	Latitude	Longitude
	31° 27' 54.94"	19° 47' 23.78"
	Posters were placed at the entrance of the property, at the against the entrance/access gate.	
Date placed	08 July 2016	

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

• 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) & Appendix E4 (initial notification).

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 refer to Appendix E3	

- **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:

Authority/Organ of State	Contact person (Title, Name and Surname)	Tel No	Fax No	e-mail	Postal address
NC Department of Agriculture & Land Reform	W. Mothibi (HOD)	(053)838 9102			Private Bag X5018, Kimberley, 8300
Department of Roads and Public Works	K. Nogwili (HOD)	(053)839 2241			P O Box 3132, Kimberley, 8300
Directorate Forestry Management	J. Mans	054 338 5909			PO Box 2782, Upington, 8800
Department of Water Affairs- Northern Cape	R. Mazwi	053 7731239			Private Bag X6101, Kimberley, 8300
Department of Water and Sanitation	J. van Wyk-Towell	054 338 5819			Private Bag X5912, Upington, 8800
Department of Nature Conservation and Environment (DENC)	A. Le Roux	027 718 8800			Private Bag X16, Springbok, 8240
Department of Health – Northern Cape	C. Munroe	053 830 2148			Private Bag X5049, Kimberley, 8300
Department of Agriculture: Veterinary Health	B. Manuel	073 784 1822			P.O. Box 30, Calvinia, 8190
SAHRA	C. Scheermeyer	021 462 4502			P.O.Box 4637, Cape Town, 8000
Namakwa District Municipality	D. Smith	027 712 8000			Private Bag X20, Springbok, 8240

Hantam Municipality	J. R. van Wyk	027 341 8500			Private Bag X14, Calvinia, 8190
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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 1 (preferred alternative)			
	<p>Direct impacts:</p> <p>Potential impact on freshwater ecosystems</p>	Low negative	<ul style="list-style-type: none"> 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. No construction to take place within the Karee River. No waste water or manure to enter the Karee River. An Environmental Management Programme (EMPr) will be implemented during the construction and operational phase. <p>The control of construction waste water, any contaminated water and/or stormwater must be properly controlled, as per the EMPr.</p>
	<p>Loss of Vegetation</p> <p>Direct loss of vegetation type and associated habitat due to construction and operational activities.</p>	Negligible	<ul style="list-style-type: none"> Indiscriminate clearing of areas must be avoided (all remaining areas to remain as natural as possible). Once the construction is completed all further movement must be confined to the access tracks to allow the vegetation to re-establish over the excavated areas. Rehabilitation must be done after construction. All construction must be done in accordance with an approved construction and operational phase Environmental Management Programme (EMPr), which must be

			<p>developed by a suitably experienced Environmental Assessment Practitioner.</p> <ul style="list-style-type: none"> • A suitably qualified Environmental Control Officer must be appointed to monitor the construction phase in terms of the EMPr. • An integrated waste management system must be implemented during the construction phase. • All rubble and rubbish (if applicable) must be collected and removed from the site to a suitable registered waste disposal site. • All alien vegetation should be removed from all associated footprints within the various construction sites
	The loss of cultural or historic aspects during construction	Negligible	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • No construction activities will take place during night time. • All construction activities will be limited to normal working hours. • Compliance with the appropriate legislation with respect to noise shall be mandatory. • The EMPr will be implemented during the construction and operational phases.
	Visual Impact	Very – Low - Negative	<ul style="list-style-type: none"> • The activity is not expected to cause a significant visual impact given the fact that the site is located adjacent to an agricultural area. • An acceptable noise level (45dBA during the day and 35dBA during the night) as specified by the SABS 10103 Code of Practice will be maintained). • The Operational EMPr to be

			implemented.
	Waste Impact	Low- Negative	<ul style="list-style-type: none"> Manure must be removed daily from the holding yards (pens), then washing down using low volume high-pressure sprays. This reduces odours and fly-breeding. No waste water or manure to enter the Karee River. Manure should be collected daily and stored in vermin-proof containers. The control of construction waste water, any contaminated water and/or stormwater must be properly controlled, as per the EMPr.
	Odours	Low – Negative	<ul style="list-style-type: none"> Manure must be removed daily from the holding yards (pens), then washing down using low volume high-pressure sprays. This reduces odours and fly-breeding. Manure should be collected daily and stored in vermin-proof containers. The Operational EMPr to be implemented.
	Indirect impacts: Temporary jobs will be created during the construction phase and some permanent jobs during the operational phase.	Low Positive	<p>No mitigation measures are required.</p> <p>Temporary jobs will be created during the construction phase. Permanent jobs will be created during the operational phase.</p>
	Cumulative impacts: The expansion of Hantam Veevoere is having a very-low negative cumulative impact on the environment.	Very low negative	Recommendations mentioned above will be implemented together with the EMPr.
Alternative 2			
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
Alternative 3			
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		

	Indirect impacts:		
	Cumulative impacts:		
No-go option			
	Direct impacts: No expansion of Hantam Veevoere will be done.	Low-negative	N/A
	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 after 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 – **Low – negative, probable**

Loss of vegetation – **Negligible, Unlikely**

Potential impacts on heritage resources – **Negligible Possible.**

Noise impact – **Low (negative), during construction, definite.**

Visual impact – **Low (negative), definite, during construction**

Waste – **Low (negative), definitive, during construction**

Odours – **Negligible, definite, during construction**

Job creation – **Low (Positive), definite**

Operational Phase

Geographical and/or physical aspects - **No impact expected**

Freshwater ecosystems – **Low (negative), Probable**

Potential impacts on archaeological heritage – **No impact expected**

Noise impact – **Negligible, definite**

Visual impact – **Negligible, definite**

Waste – **Low (negative), definitive**

Odours – **Low-negative, definite**

Socio-economic (jobs during operational phase) - **Low (Positive), Probable**

Decommissioning

The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.

Alternative C

No-go alternative (compulsory)

No development and expansion of Hantam Veevoere – Low-negative, probable

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 environmental assessment practitioner)?	YES	NO
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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).

N/A

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.

Is an EMPr attached?	YES	NO
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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.

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