

# AMENDED BASIC ASSESSMENT REPORT

G.A. de Klerk Campfornis Crocs

Ref : 12/1/9/1 – C79

NEAS: LIM/EIA/0000775/2013

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# LIMPOPO

## PROVINCIAL GOVERNMENT

REPUBLIC OF SOUTH AFRICA

### DEPARTMENT OF ECONOMIC DEVELOPMENT, ENVIRONMENT & TOURISM

#### BASIC ASSESSMENT REPORT - EIA REGULATIONS, 2010

Basic Assessment report in terms of the Environmental Impact Assessment Regulations, 2010, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

File Reference Number:

12/1/9/1 – C79

NEAS Reference Number:

(For official use only)

LIM/EIA/0000775/2013

Date Received:

Due date for acknowledgement:

Due date for acceptance:

Due date for decision

Kindly note that:

1. The report must be compiled by an independent Environmental Assessment Practitioner.
2. 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.
3. Where applicable **tick** the boxes that are applicable in the report.
4. 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 Department of Economic Development, Environment and Tourism as the competent authority (Department) for assessing the application, it may result in the rejection of the application as provided for in the regulations.
5. An incomplete report may be returned to the applicant for revision.
6. Unless protected by law, all information in the report will become public information on receipt by the department. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.

7. The Act means the National Environmental Management Act (No. 107 of 1998) as amended.
8. Regulations refer to Environmental Impact Assessment (EIA) Regulations of 2010.
9. The Department may require that for specified types of activities in defined situations only parts of this report need to be completed. No faxed or e-mailed reports will be accepted.
10. This application form must be handed in at the offices of the Department of Economic Development, Environment and Tourism:-

<b><u>Postal Address:</u></b> Central Administration Office Environmental Impact Management P. O. Box 55464 <b>POLOKWANE</b> 0700	<b><u>Physical Address:</u></b> Central Administration Office Environmental Affairs Building Cnr Suid and Dorp Streets <b>POLOKWANE</b> 0699
<p><b>Queries should be directed to the Central Administration Office: Environmental Impact Management:-</b></p> <p><b>For attention:</b> Mr E. V. Maluleke</p> <p><b>Tel:</b> (015) 290 7138/ (015) 290 7167</p> <p><b>Fax:</b> (015) 295 5015</p> <p><b>Email:</b> <a href="mailto:malulekeev@ledet.gov.za">malulekeev@ledet.gov.za</a></p>	

View the Department's website at <http://www.ledet.gov.za/> for the latest version of the documents.

## SECTION A: ACTIVITY INFORMATION

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” or appointment of a specialist for each specialist thus appointed:

Any specialist reports must be contained in Appendix D.

### 1. ACTIVITY DESCRIPTION

Describe the activity, which is being applied for, in detail<sup>1</sup>:

<p>The proponent intends clearing 2 hectares (on a flat site) of natural veld with some vegetation and scattered aliens (presently zoned for agriculture) for the concentration of crocodiles (3000) in 2 enclosures (each 180m x 30m) for slaughtering and commercial productions of crocodile skins.</p>
<p>This entails the construction of agri-industrial infrastructure and facilities outside industrial areas – footprint 1.5ha (15 000m<sup>2</sup>).</p>
<p><b>1.1 Construction Activities:</b></p> <p>Clearing of vegetation. Laying of concrete foundations and lining for dams in walled pens by professional contractors. Pipes from borehole to structure and 4 x 10 000lt tanks (250m<sup>3</sup>). Tanks on concrete slabs. Erection of fence around project.</p> <p><u>Phase 1:</u></p> <p>The first enclosure is to contain 24 walled holding pens (each 15 x 15m) and each with one shallow dam ( 10m x 5m x 0,5m deep). Shade netting on steel structure on northern side of each pen and dam.</p> <p>Adjacent to the first enclosure, a roofed holding pen for hatchlings (10m x 20m) with two shallow dams (each 14m x 1m x 0,20m deep). Heating by solar panel / infrared lamps.</p> <p>Filter and pump connected to from tanks to dams in pens and waste water to concrete slurry dam (4m radius x 1,3m high)</p> <p>Electric fencing (solar) around site.</p> <p><u>Phase 2:</u></p> <p>The construction of 1 enclosure with 24 pens, similar to those in phase 1. Electric fencing (solar) around site.</p>
<p><b>1.2 Operational activities:</b></p> <p>Water cycle: fresh water – borehole → tanks → dams in pen. Waste water from dams → sump / filter → slurry dam → irrigation. A closed loop water system to mitigate seeping &amp; waste.</p> <p>Slaughtering of 900 – 1000 crocodiles p.a. in existing abattoir. Carcasses to be cold stored as feed for remainder.</p>

<sup>1</sup> Please note that this description should not be a verbatim repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description.

## 2. 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. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity 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 Department 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.

Application for exemption from assessing:

i. site alternatives as

no viable alternatives as north and east will be too close to natural drainage system (seasonal ditch) and may affect natural migration

west – too close to homestead and Boscia Foetida and Philenoptera violacea trees (protected)

south – more piping (more negative impact on site) and larger trees (amongst other, Philenoptera violacea (protected) )

any other site further away would impact negatively on the sense of the place, ambience and aesthetics of a gamefarm. The specific site is closer to the shed and the abattoir and has been trampled and disturbed by previous cattle farming. Annual, pioneering grass and weeds form the ground cover while proliferation of Acacia Mellifera and Grewia Spp indicate previous over-exploitation.

ii. Activity alternatives:

There is no alternative for small scale manual construction activities or operational activities.

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

## 3. ACTIVITY POSITION

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.

List alternative sites, if applicable.

**Latitude (S):**

**Longitude (E):**

**Alternative:**

Alternative S1<sup>2</sup> (preferred or only site alternative)

Alternative S2 (if any)

Alternative S3 (if any)

22°	40'	14,8"	028°	59'	51,0"
°	'	"	°	'	"
°	'	"	°	'	"

**In the case of linear activities:**

**Alternative:**

**Latitude (S):**

**Longitude (E):**

Alternative S1 (preferred or only route alternative)

- 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

°	'	"	°	'	"
°	'	"	°	'	"
°	'	"	°	'	"

Alternative S3 (if any)

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

°	'	"	°	'	"
°	'	"	°	'	"
°	'	"	°	'	"

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.

#### 4. PHYSICAL SIZE OF THE ACTIVITY

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

**Alternative:**

**Size of the activity:**

Alternative A1<sup>3</sup> (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

15 000 m <sup>2</sup>
m <sup>2</sup>
m <sup>2</sup>

or,

<sup>2</sup> "Alternative S.." refer to site alternatives.

<sup>3</sup> "Alternative A.." refer to activity, process, technology or other alternatives.

for linear activities:

**Length of the activity:**

**Alternative:**

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

	m
	m
	m

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

**Size of the site/servitude:**

**Alternative:**

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

	m <sup>2</sup>
	m <sup>2</sup>
	m <sup>2</sup>

**5. SITE ACCESS**

**Does ready access to the site exist?**

YES ✓	NO
m	

**If NO, what is the distance over which a new access road will be built**

**Describe the type of access road planned:**

--

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.

**6. SITE OR 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:

- 6.1 the scale of the plan which must be at least a scale of 1:500;
- 6.2 the property boundaries and numbers of all the properties within 50 metres of the site;
- 6.3 the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 the exact position of each element of the application as well as any other structures on the site;

- 6.5 the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 6.6 all trees and shrubs taller than 1.8 metres;
- 6.7 walls and fencing including details of the height and construction material;
- 6.8 servitudes indicating the purpose of the servitude;
- 6.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
- rivers;
  - the 1:100 year flood line (where available or where it is required by Department of Water Affairs);
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or invested with alien species);
- 6.10 for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 6.11 the positions from where photographs of the site were taken.

## 7. 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 form. It must be supplemented with additional photographs of relevant features on the site, if applicable.

## 8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 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.

## 11. ACTIVITY MOTIVATION

### 9(a) Socio-economic value of the activity

What is the expected capital value of the activity on completion?	R1,2 million
What is the expected yearly income that will be generated by or as a result of the activity?	R 3,5 million
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 phase of the activity?	0
What is the expected value of the employment opportunities during the development phase?	R -
What percentage of this will accrue to previously disadvantaged individuals?	- %
How many permanent new employment opportunities will be created during the operational phase of the activity?	9
What is the expected current value of the employment opportunities during the first 10 years?	R2,5 million



What percentage of this will accrue to previously disadvantaged individuals?

100 %

## 9(b) Need and desirability of the activity

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

<b>NEED:</b> there is a great demand for skins (export). Producing skins enhances the financial viability of the farm and generates foreign exchange. Furthermore, DTI has identified National Exotic Leather Cluster as a potential growth sector. (Dept of Trade and Industry, 17/10/2013)			
i.	Was the relevant municipality involved in the application?	YES ✓	NO
ii.	Does the proposed land use fall within the municipal Integrated Development Plan?	YES ✓	NO
iii.	If the answer to questions 1 and / or 2 was NO, please provide further motivation / explanation:		

<b>DESIRABILITY:</b> The activity will enhance an otherwise ordinary game farm in an area frequented by hunters and tourists and will raise standard of living for locals.			
i.	Does the proposed land use / development fit the surrounding area?	YES ✓	NO
ii.	Does the proposed land use / development conform to the relevant structure plans, Spatial development Framework, Land Use Management Scheme, and planning visions for the area?	YES ✓	NO
iii.	Will the benefits of the proposed land use / development outweigh the negative impacts of it?	YES ✓	NO
iv.	If the answer to any of the questions 1-3 was NO, please provide further motivation / explanation:		
v.	Will the proposed land use / development impact on the sense of place?	YES	NO ✓
vi.	Will the proposed land use / development set a precedent?	YES	NO ✓
vii.	Will any person's rights be affected by the proposed land use / development?	YES	NO ✓
viii.	Will the proposed land use / development compromise the "urban edge"?	YES	NO ✓
ix.	If the answer to any of the question 5-8 was YES, please provide further motivation / explanation.		

<b>BENEFITS:</b>			
i.	Will the land use / development have any benefits for society in general?	YES ✓	NO
ii.	Explain: Export of skins earns foreign exchange and fulfills a high demand for the product. The development will also attract local and overseas tourists and outings for learners (educational value). Will be part of DTI plan for NELC		
iii.	Will the land use / development have any benefits for the local communities where it will be located?	YES ✓	NO
iv.	Explain: local construction firms will be employed (development phase). 9 permanent jobs will be created for locals. Educational visits – local schools (environmental education)		

## 10. 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:	Administering authority:	Date:
NEMA: Act 1 of 7 of 1998	Dept Env Affairs	
R544		2010
Water act: Act 36 of 1998	Dept of Water Affairs	
Sect 40, 21 (e) & (g)		

## 11. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

### 11(a) Solid waste management

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

YES	NO ✓
- m <sup>3</sup>	

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

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

If any, used as fill (roads)

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

Any other waste will (if there is) be disposed of by the contractors at designated areas.

Will the activity produce solid waste during its operational phase?

YES

NO ✓

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

m<sup>3</sup>

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

If any, used as dry fertilizer on lawns

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

Dried and as fertilizer on lawns

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 department 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 relevant legislation?

YES

NO ✓

If yes, inform the department and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility?

YES

NO ✓

If yes, then the applicant should consult with the Department to determine whether it is necessary to change to an application for scoping and EIA.

## 11(b) Liquid effluent

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

YES

NO ✓

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

7,2 m<sup>3</sup> p. m.

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

Yes ✓

NO

If yes, the applicant should consult with the Department 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 ✓

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:

Cycle 1: After 21 days → waste water from dams to filter and UV treatment → tanks (purification). Recycled to dams in pens.

Cycle 2: 21 days → waste water from dams to filter → slurry dam. Water used for irrigating lawns and Lucerne. These cycles every 21 days repeated.

### 11(c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

YES	NO ✓
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If yes, is it controlled by any legislation of any sphere of government?

YES	NO
-----	----

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.

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

No emissions

### 11(d) Generation of noise

Will the activity generate noise?

YES	NO ✓
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If yes, is it controlled by any legislation of any sphere of government?

YES	NO
-----	----

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.

If no, describe the noise in terms of type and level:

Low noise level only during construction phase by normal construction machinery.

## 12. 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:

60 000 Litres

Does the activity require a water use permit from the Department of Water Affairs?

YES ✓	NO
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If yes, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this application if it has been submitted.

## 13. ENERGY EFFICIENCY

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

Shade netting – north side of each pen and over each dam. Solar panels. Climate suitable. Alignment of structures to maximize natural climate. Solar powered pumps / also for security fencing around project.

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

Natural heating and cooling. Shade nettings. Roofing where required and as indicated in building plan.  
Solar panels for heating (hatchlings building)

## SECTION B: SITE/AREA/PROPERTY DESCRIPTION

### Important notes:

1. 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 C and indicate the area, which is covered by each copy No. on the Site Plan.

Section C Copy No.   
(e.g. A):

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

3. 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:

All specialist reports must be contained in Appendix D.

Property  
description/physical  
address:

Campformis 845 MS

(Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.


In instances where there is more than one town or district involved, please attach a list of towns or districts to this application.

Current land-use  
zoning:

Agriculture

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?

YES	NO ✓
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Must a building plan be submitted to the local authority?

YES	NO ✓
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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 indication of the project site position as well as the positions of the alternative sites, if any;
- 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, minutes and seconds.** The projection that must be used in all cases is the WGS84 spheroid in a national or local projection)

## 1. 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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## 2. LOCATION IN LANDSCAPE

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

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

## 3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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

	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).

#### 4. 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 <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup> ✓	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an “<sup>E</sup>” 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.

#### 5. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that does 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:

5.1 Natural area	✓	5.22 School	
5.2 Low density residential		5.23 Tertiary education facility	
5.3 Medium density residential		5.24 Church	
5.4 High density residential		5.25 Old age home	
5.5 Medium industrial <sup>AN</sup>		5.26 Museum	
5.6 Office/consulting room		5.27 Historical building	
5.7 Military or police base/station/compound		5.28 Protected Area	
5.8 Spoil heap or slimes dam <sup>A</sup>		5.29 Sewage treatment plant <sup>A</sup>	
5.9 Light industrial		5.30 Train station or shunting yard <sup>N</sup>	
5.10 Heavy industrial <sup>AN</sup>		5.31 Railway line <sup>N</sup>	
5.11 Power station		5.32 Major road (4 lanes or more)	
5.12 Sport facilities		5.33 Airport <sup>N</sup>	
5.13 Golf course		5.34 Harbour	
5.14 Polo fields		5.35 Quarry, sand or borrow pit	
5.15 Filling station <sup>H</sup>		5.36 Hospital/medical centre	
5.16 Landfill or waste treatment site		5.37 River, stream or wetland	
5.17 Plantation		5.38 Nature conservation area	
5.18 Agriculture		5.39 Mountain, koppie or ridge	
5.19 Archaeological site	✓	5.40 Graveyard	
5.20 Quarry, sand or borrow pit		5.41 River, stream or wetland	
5.21 Dam or Reservoir		5.42 Other land uses (describe)	

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

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

If YES, specify and explain:	
If NO, specify:	

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

If YES, specify and explain:	
If NO, specify:	

## 6. 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	YES	NO ✓
Archaeological or palaeontological sites, on or close (within 20m) to the site?	Uncertain	
If YES, explain:		
If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.		
Briefly explain the findings of the specialist:	Possible heritage site 200m from site. Barrier tape to ensure no access to this buffer zone during construction. The proposed development is small scale and non-intrusive. Secondary impacts are anticipated to be insignificant.	
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 submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.		

## SECTION C: PUBLIC PARTICIPATION

### 1. ADVERTISEMENT

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) fixing a notice board (of a size at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the department) at a place conspicuous to the public at the boundary or on the fence of—
  - (i) the site where the activity to which the application relates is or is to be undertaken; and
  - (ii) any alternative site mentioned in the application;
- (b) giving written notice to—
  - (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
  - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;

- (v) the municipality which has jurisdiction in the area;
- (vi) any organ of state having jurisdiction in respect of any aspect of the activity; and
- (vii) any other party as required by the department;
- (c) placing an advertisement in—
  - (i) one local newspaper; or
  - (ii) any official *Gazette* that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official *Gazette* referred to in subregulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the department, in those instances where a person is desiring of but unable to participate in the process due to—
  - (i) illiteracy;
  - (ii) disability; or
  - (iii) any other disadvantage.

## 2. CONTENT OF ADVERTISEMENTS AND NOTICES

A notice board, advertisement or notices must:

- (a) indicate the details of the application which is subjected to public participation; and
- (b) state—
  - (i) that the application has been submitted to the department in terms of these Regulations, as the case may be;
  - (ii) whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;
  - (iii) the nature and location of the activity to which the application relates;
  - (iv) where further information on the application or activity can be obtained; and
  - (v) the manner in which and the person to whom representations in respect of the application may be made.

## 3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the department in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the

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application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of these Regulations.

Advertisements and notices must make provision for all alternatives.

#### **4. DETERMINATION OF APPROPRIATE MEASURES**

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the department to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

#### **5. COMMENTS AND RESPONSE REPORT**

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in these Regulations and be attached to this application. The comments and response report must be attached under Appendix E.

#### **6. AUTHORITY PARTICIPATION**

Please note that a complete list of all organs of state and or any other applicable authority with their contact details must be appended to the basic assessment report or scoping report, whichever is applicable.

Authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input.

<b>Name of Authority informed:</b>	<b>Comments received (Yes or No)</b>
Blouberg Local Municipality	Yes

#### **7. CONSULTATION WITH OTHER STAKEHOLDERS**

Note that, for linear activities, or where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that subregulation to the extent and in the manner as may be agreed to by the department.

Proof of any such agreement must be provided, where applicable.

Has any comment been received from stakeholders?

YES	NO ✓
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If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

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## SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2010, 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.

### 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

Blouberg Municipality requested information about waste disposal, emissions and production process plan (19/12/2013)
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Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report as Annexure E):

The requested information was given in detail. (see annexure E)
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### 2. 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

List the potential direct, indirect and cumulative property/activity/design/technology/operational alternative related impacts (as appropriate) 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.

#### Alternative (preferred alternative)

<b>2.1 Planning &amp; design phase:</b>
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**Direct impacts:** None – no activity on site

**Indirect impacts:** Planning for: \* escapes – Fencing to be at least 1,6m high

\* pollution

\* stormwater

\* cordoning off the possible archaeological site 200m from the development

**Cumulative impacts:** Siteplan and activity to avoid proximity to aquatic system (seasonal ditch). Although there is no surface water – no aquatic life threatened, pollution of surface / soil and ground water may occur during construction. Planning required to avoid this.

**Mitigation measures:** Activities to be managed on site only. Plan to encompass and prevent all anticipated risks in structures: escapes, pollution, erosion, fencing (1,6m). Site length (as proposed) must be reduced by 60% to avoid proximity to natural drainage system (seasonal ditch) and to allow migration (north-south) of fauna. Store topsoil on / around bare sites.

## **2.2 Construction phase:**

**Direct impacts:** Clearing of all vegetation, manual construction – soil removal on a small scale to lay foundations and construct shallow dams. Suitable activity for small scale construction. Standard procedures.

**Indirect impacts:** Very low localised level of noises and dust. Possible spillage of fuel, oil and construction waste (solid) – possible small scale pollution of underground water. Biomass removal may present fire hazard. Financial benefits for local workers.

**Cumulative impacts:** 1.5 hectare of sparsely vegetated, disturbed soil will be denuded by using small scale manual labour which has less impact and is standard technology. No serious cumulative impact if activity proceeds as proposed. A no-go situation would have negative financial effect on proponent and workers. Duration of impacts: Long term – local, reversible and no irreplaceable loss of resource.

**Mitigation measures:** Activities to be managed on site only. Fuel to be stored away from site in shed. Topsoil to be spread outside site. Biomass to be regularly removed to surrounding bare patches. Soil and solid construction waste to be incorporated as fill for access roads. Toilet facilities for construction teams must be supplied. Adherence to prescribed standards to prevent escapes (pens and perimeter fence). No activity / movement allowed towards the ditch or east-southeast to keep flora intact and to allow migration of fauna in corridor of remainder of property. No activity allowed within the 200m cordoned off possible archaeological site.

## **2.3 Operational phase:**

**Direct impacts:** Solid waste, effluent, carcasses: Enriched water seepage to groundwater from drain pipes and dams may pollute site but will be very localised. Disposal of carcasses: to be stored in a cold room / freezers to prevent fly infestation. Leftover food to be removed after 12 hours of feeding.

Enriched water to be recycled (cycle 1 and cycle 2 procedure) and to sludge dam for irrigation of lawns. Solid waste to be used as fertilizer in gardens.

**Negative impact:** pollution – low probability, localized and can be reversed.

**Indirect impacts:** Positive impacts: attraction of a greater variety of bird species. Socio-economic benefits for local workers / educational value for schools, attracting more tourists to area. Escapes to be prevented by adhering to prescribed construction standards and regular inspection of fencing.

**Cumulative impacts:** Slight possibility of soil and ground water pollution if not managed to prescribed standards. Negative impacts are reversible, local and can be mitigated by adhering to strict hygienic procedures and regular inspection of infrastructure and recycling system. Dam lining, pipes to be according to prescribed standards.

*Positive impacts: Socio-economic benefits for proponent and local work force. Educational value, tourist attraction. Foreign exchange.*

**Mitigation measures:** *Daily inspections of structures, enclosures and fences to prevent escapes. This applies to the secondary fence around the structures as well. Recycling system and pipes to be inspected daily to prevent seepage and soil pollution. Sampling of water at source: 1 x p.a.*

*Sampling from existing monitoring borehole: 1 x p.a. (down-gradient west at GDK01 or down-gradient northwest from borehole at 22° 40' 10.48" : 29° 00' 079"*

*A no-go alternative will result in job losses, financial viability compromised, waste of construction material. Relatively denuded (ground cover) site will remain as is.*

#### **2.4 Decommissioning and closing phase:**

**Direct impacts:** *Proliferation of pest animals, mosquito infestation in stagnant water (malaria). Infrastructure to be dismantled, reused and recycled. This is a long term project and closure is not envisaged.*

**Indirect impacts:** *Aesthetically negative on game farm which may be worse than short term dust, noise pollution during deconstruction / demolition. Erosion prone area (storm water) when disturbed.*

*Site will have to be rehabilitated by incorporating top soil.*

*Socio-economic impacts negative and cannot be mitigated.*

**Cumulative impacts:** *Short term dust and noise pollution, local and negligible if demolition is done manually. Slow demolition is unacceptable as pests may be encouraged to proliferate in structures. Mechanical demolition will destroy soil structure more. Proliferation of pioneering weeds.*

**Mitigation measures:** *Demolition must be done manually to prevent soil compaction. Recycling of solid waste (as fill). Plastic piping, wire, steel and other construction waste to be recycled. No waste dumps to be allowed around site.*

*No dumps (solid waste) allowed on / around site.*

*Site to be rehabilitated by covering site with top soil: seeding with endemic grasses and introduction of endemic shrubs and trees. Alien vegetation to be controlled / eradicated.*

### **3. 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)**

1. Complete removal / clearing of natural vegetation during construction is definite, long term but restricted to 1.5ha (very localised impact) and negligible impact on environment. Disperse biomass to prevent fire hazard. No mitigation for removal of vegetation: an offset by declaring a PNR as mitigation for loss of biodiversity.
2. Construction of infrastructure on site will be definite, long-term as commissioning is not foreseen.

Aesthetic / ambience may enhance disturbed site and will blend with other surrounding structures (homestead / shed / abattoir)

3. Likelihood of spillage (fuel / oil), construction waste, pollution will be negligible over short, medium and long term. There is a low probability and if any, small scale and reversible.
4. Seepage of enriched water (low probability) will be localized short term and is unlikely to pollute ground water (See App D – Geohydrological Assessment)

#### **No-go alternative (compulsory)**

1. The natural diversity (vegetation) will slowly regenerate but it will probably be preceded by pioneering plants (as it is) and indigenous invasive species (thicket forming). Long term.
2. Socio-economic impact negative: loss of foreign exchange, financial viability of applicant compromised and no new job creation for locals. This is significant as unemployment is high and living standards are low in this area.

#### **Alternative B**

#### **Alternative C**

**For more alternatives please continue as alternative D, E, etc.**

### **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
✓	

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):

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 department in respect of the application:

1. Planning must be according to prescribed standards for construction (also fencing) to ensure no escapes and to prevent disturbance of the surrounding environment. Activities to be limited to designated site only.
2. The possible location of an archaeological site ( $\pm 200\text{m}$  from construction site) to be indicated by barrier tape to restrict access.
3. Biomass to be spread in the surrounding area to decompose naturally (no burning or dumps / stacks).

- |  |
|--|
| 4. Solid waste (constructional / soil) recycled as fill on farm roads<br>5. Regular inspection of drainage systems and fencing<br>6. Strict hygienic measures to prevent breeding sites for harmful insects (mosquitos / flies)<br>7. Monitoring borehole westwards down gradient from site. To be sampled 1 x p.a. and main source of abstraction to be sampled 1 x p.a. to measure against water quality guidelines. |
|--|

Is an EMPr attached?

YES ✓	NO
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The EMPr must be attached as Appendix F.

## SECTION F: APPENDICES

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix E: Comments and responses report

Appendix F: Environmental Management Programme (EMPr)

Appendix G: Other information

## SECTION G: DECLARATION BY THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

I, \_\_\_\_\_ declare that I –

- (a) act as the independent environmental practitioner in this application;
- (b) do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;
- (c) do not have and will not have a vested interest in the proposed activity proceeding;
- (d) have no, and will not engage in, conflicting interests in the undertaking of the activity;
- (e) undertake to disclose, to the competent authority, any material information that has or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2006;



- (f) will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- (g) will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the Department in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the Department may be attached to the report without further amendment to the report;
- (h) will keep a register of all interested and affected parties that participated in a public participation process; and
- (i) will provide the Department with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

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**Signature of the Environmental Assessment Practitioner:**

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**Name of company:**

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**Date:**