

Basic Assessment Report



edtea

Department :

Economic Development, Tourism and
Environmental Affairs

PROVINCE OF KWAZULU-NATAL

(For official use only)

EIA File Reference Number:
NEAS Reference Number:
Waste Management Licence Number:
(if applicable)
Date Received:

DC/23/0017/2014

KZN/EIA/

BASIC ASSESSMENT REPORT

**Submitted in terms of the Environmental Impact Assessment Regulations, 2010
promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107
of 1998)**

This template may be used for the following applications:

- **Environmental Authorization** subject to basic assessment for an activity that is listed in Listing Notices 1 or 3, 2010 (Government Notices No. R 544 or No. R 546 dated 18 June 2010); or
- **Waste Management Licence** for an activity that is listed in terms of section 20(b) of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) for which a basic assessment process as stipulated in the EIA Regulations must be conducted as part of the application (refer to the schedule of waste management activities in Category A of Government Notice No. 718 dated 03 July 2009).

Kindly note that:

1. This **basic assessment report** meets the requirements of the EIA Regulations, 2010 and is meant to streamline applications. This report is the format prescribed by the KZN Department of Economic Development, Tourism & Environmental Affairs. Please make sure that this is the latest version.
2. The report must be typed within the spaces provided in the form. The size of the spaces provided is not 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 text.
3. Where required, place a cross in the box you select.
4. An incomplete report will be returned to the applicant for revision.
5. 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 will result in the rejection of the application as provided for in the regulations.
6. No faxed or e-mailed reports will be accepted.
7. The report must be compiled by an independent environmental assessment practitioner ("EAP").
8. 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.
9. The KZN Department of Economic Development, Tourism & Environmental Affairs may require that for specified types of activities in defined situations only parts of this report need to be completed.
10. The EAP must submit this basic assessment report for comment to all relevant State departments that administer a law relating to a matter affecting the environment. This provision is in accordance with Section 24 O (2) of the National Environmental Management Act 1998 (Act 107 of 1998) and such comments must be submitted within 40 days of such a request.
11. **Please note that this report must be handed in or posted to the District Office of the KZN Department of Economic Development, Tourism & Environmental Affairs to which the application has been allocated (please refer to the details provided in the letter of acknowledgement for this application).**

"Leading the attainment of inclusive growth for job creation and economic sustenance"

DEPARTMENTAL REFERENCE NUMBER(S)

File reference number (EIA):	DC/23/0017/2014
File reference number (Waste Management Licence):	

SECTION A: DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER AND SPECIALISTS

1. NAME AND CONTACT DETAILS OF ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)

Name and contact details of the EAP who prepared this report:

Business name of EAP:	Environmental Agency		
Physical address:	27 Umkhamba Drive, Umkhamba Gardens, Ladysmith 3370		
Postal address:	27 Umkhamba Drive, Umkhamba Gardens, Ladysmith 3370		
Postal code:	3370	Cell:	074 1414 157
Telephone:	036 631 0806	Fax:	086 272 4442
E-mail:	enviroagency@gmail.com		

2. NAMES AND EXPERTISE OF REPRESENTATIVES OF THE EAP

Names and details of the expertise of each representative of the EAP involved in the preparation of this report:

Name of representative of the EAP	Education qualifications	Professional affiliations	Experience at environmental assessments (yrs)
Dan Mkhwanazi	B.Sc.		15
Slindile Ngubeni	BA Enviro Man		1

3. NAMES AND EXPERTISE OF SPECIALISTS

Names and details of the expertise of each specialist that has contributed to this report:

Name of specialist	Education qualifications	Field of expertise	Section/ s contributed to in this basic assessment report	Title of specialist report/ s as attached in Appendix D

SECTION B: ACTIVITY INFORMATION

1. PROJECT TITLE

Describe the project title as provided on the application form for environmental authorization:

Proposed Cultivation of Virgin Land, on 15ha of Farm Hunters Rest, Sub 1 of Farm Kromme Draai, Erf 1033 and on 12 ha of Farm Patience, Sub 20 of Farm Kromme Draai Erf 1033, in Bergville, Okhahlamba Local Municipality, Uthukela District (Dc23).

2. PROJECT DESCRIPTION

Provide a detailed description of the project:

Proposed Cultivation of Virgin Land, on 15ha of Farm Hunters Rest, Sub 1 of Farm Kromme Draai Erf 1033 and on 12 ha of Farm Patience, Sub 20 of Farm Kromme Draai Erf 1033 in Bergville under Okhahlamba local Municipality, within Uthukela District. The development will require the clearing of indigenous vegetation for crop irrigation to increase agricultural production.

3. ACTIVITY DESCRIPTION

Describe each listed activity in Listing Notice 1 (GNR 544, 18 June 2010), Listing Notice 3 (GNR 546, 18 June 2010) or Category A of GN 718, 3 July 2009 (Waste Management Activities) which is being applied for as per the project description:

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant or notice):	Describe each listed activity as per the project description (and not as per wording of the relevant Government Notice) ¹ :
R546 of 18 June 2010 Listing Notice 3	12	Clearing of 15ha and 12ha of indigenous vegetation. (Note that no vegetation study was conducted on the site visit).

4. 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;

¹Please note that this description should not be a 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, i.e. describe the components of the desired development

- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this report. 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 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.

Sections B 5 – 15 below should be completed for each alternative.

5. 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. List alternative sites were applicable.

	Latitude (S):			Longitude (E):		
Alternative:						
Alternative S1 ² (preferred or only site alternative)	28°	40'	58.0"	29°	22'	39.3"
Alternative S2 (if any)	28°	40'	27.6"	29°	23'	54.6"
Alternative S3 (if any)	0	€	"	0	€	"

In the case of linear activities:

	Latitude (S):			Longitude (E):		
Alternative:						
Alternative S1 (preferred or only route alternative)						
• Starting point of the activity	0	€	"	0	€	"
• Middle point of the activity	0	€	"	0	€	"
• End point of the activity	0	€	"	0	€	"
Alternative S2 (if any)						
• Starting point of the activity	0	€	"	0	€	"
• Middle point of the activity	0	€	"	0	€	"
• End point of the activity	0	€	"	0	€	"
Alternative S3 (if any)						
• Starting point of the activity	0	€	"	0	€	"
• Middle point of the activity	0	€	"	0	€	"

² "Alternative S.." refer to site alternatives.

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- End point of the activity

0	'	"	0	'	"
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For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 500m along the route for each alternative alignment.

6. PHYSICAL SIZE OF THE ACTIVITY

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

Alternative:

Alternative A1³ (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

or, for linear activities:

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Size of the activity:

150 000m ²
120 000m ²
m ²

Length of the activity:

m
m
m

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:

1967.23m ²
1824.83m ²
m ²

7. SITE ACCESS

Does ready access to the site exist?

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

Describe the type of access road planned:

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
m	

The site is accessed on the P30 Road on its western boundary as well as internal farm roads

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

8. 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 report.

³ "Alternative A." refer to activity, process, technology or other alternatives.

The site or route plans must indicate the following:

- 8.1. the scale of the plan which must be at least a scale of 1:500;
- 8.2. the property boundaries and numbers/ erf/ farm numbers of all adjoining properties of the site;
- 8.3. the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 8.4. the exact position of each element of the application as well as any other structures on the site;
- 8.5. 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;
- 8.6. walls and fencing including details of the height and construction material;
- 8.7. servitudes indicating the purpose of the servitude;
- 8.8. sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
 - rivers, streams, drainage lines or wetlands;
 - the 1:100 year flood line (where available or where it is required by DWA);
 - ridges;
 - cultural and historical features;
 - areas with indigenous vegetation including protected plant species (even if it is degraded or infested with alien species);
- 8.9. 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
- 8.10. the positions from where photographs of the site were taken.

9. 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.

10. FACILITY ILLUSTRATION

A detailed illustration of the facility must be provided at a scale of 1:200 and attached to this report as Appendix C. The illustrations must be to scale and must represent a realistic image of the planned activity/ies.

11. ACTIVITY MOTIVATION

11.1. Socio-economic value of the activity

What is the expected capital value of the activity on completion?

What is the expected yearly income that will be generated by or as a result of the activity?

Will the activity contribute to service infrastructure?

R1 500 000
R 400 000.00
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

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Is the activity a public amenity?	YES	NO
How many new employment opportunities will be created in the development phase of the activity?	3	
What is the expected value of the employment opportunities during the development phase?	R 300 000.00	
What percentage of this will accrue to previously disadvantaged individuals?		60%
How many permanent new employment opportunities will be created during the operational phase of the activity?	2	
What is the expected current value of the employment opportunities during the first 10 years?	R 720 000.00	
What percentage of this will accrue to previously disadvantaged individuals?		66%

11.2. Need and desirability of the activity

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

There is a need to increase the productivity of crops plantation due to the rapid increase of human population; hence there is high demand for food security. Natural veld cannot fulfil this need unless the land is used for irrigation. Irrigation can transform the land and landscape, and it can also transform society. Irrigation will higher production rates and GDP, increase exports, increase economic activity in rural communities, processing and flow-on outputs. It's also supports reliable water supply due to the consistent quantity and quality agricultural production. Irrigation benefits for soil structure and composition include build-up of organic material, maintenance of soil moisture content, and establishment and maintenance of a productive vegetation cover.

Indicate any benefits that the activity will have for society in general:

Cultivation of land will higher production rates and GDP, increase exports, increase economic activity in rural communities, processing and flow-on outputs. The benefits of irrigation are of course not just on farm but encompass the wider community. Food is essential for human beings as well for animals for their sustenance. The production of crops will ensure food security to existing human population growth in the country. The proposed project will increase employment opportunities.

Indicate any benefits that the activity will have for the local communities where the activity will be located:

Cultivation of land will higher production rates and GDP, increase exports, increase economic activity in rural communities, processing and flow-on outputs. The benefits of irrigation are of course not just on farm but encompass the wider community. Food is essential for human beings as well for animals for their sustenance. The production of crops will ensure food security to existing human population growth in the country. The proposed project will increase employment opportunities.

12. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

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

Title of legislation, policy or guideline: Administering authority: Date:

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a. The Constitution of the Republic of South Africa	All authorities	1996 August 2010
b. 2010 EIA Regulations under NEMA	National and Provincial	
c. Heritage Resources Act	Amafa and Dept. of Arts and Culture	1999
d. National Water Act	Dept. of Water Affairs	1998
e. Health Act	Dept. of Health	1977
f. Conservation of Agricultural Resources Act	Dept. of Agriculture	1983
g. KwaZulu Land Affairs Act	Dept. of Local Government and Traditional Affairs Local Municipality	1992

13. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

13.1. Solid waste management

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

YES	NO
m ³	

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

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

N/A

Where will the construction solid waste be disposed of? (provide details of landfill site)

N/A

Will the activity produce solid waste during its operational phase?

YES	NO
m ³	

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

How will the solid waste be disposed of? (provide details of landfill site)

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

N/A

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 the further requirements of the application.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

YES	NO
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If yes, contact the KZN Department of Economic Development, Tourism & Environmental Affairs to obtain clarity regarding the process requirements for your application.

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

YES	NO
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If yes, contact the KZN Department of Economic Development, Tourism & Environmental Affairs to obtain clarity regarding the process requirements for your application.

13.2. Liquid effluent

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

YES	NO
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If yes, what estimated quantity will be produced per month?

m ³	
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Will the activity produce any effluent that will be treated and/or disposed of on site?

Yes	NO
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If yes, contact the KZN Department of Economic Development, Tourism & Environmental Affairs to obtain clarity regarding the process requirements for your application.

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

YES	NO
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If yes, provide the particulars of the facility:

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

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

The plastic materials used in agriculture will be recycled and any solid waste shall be disposed of at a registered landfill.

13.3. 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, contact the KZN Department of Economic Development, Tourism & Environmental Affairs to obtain clarity regarding the process requirements for your application.

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

There will be limited emissions produced by processing machines. Fertiliser which will be applied to the land during pasture cropping is likely to be odorous. However, as it is traditionally an agricultural area, and there are few neighbours, odours are unlikely to be problematic. Exhaust emissions from agricultural machinery and windblown dust will be created during Farming activities, however as the area proposed to be pasture cropped is located within an agricultural area, this dust is not expected to be problematic.

13.4. 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
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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:

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Limited noise will be generated by agricultural tractors and machines during operation phase. The noise that will be generated at the farm is considered to be negligible, and is not expected to exceed the existing ambient noise levels in the area. Noise will not be considered further in this environmental assessment. Noisy days are limited to 4 days a year. All neighbours are practicing farmers and so no negative impact to be really felt.

14. 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:

Litres	
YES	NO

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

If YES, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this report.

15. ENERGY EFFICIENCY

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

Energy efficiency considered important, hence energy-saving compact fluorescent light-bulbs (CFL) will be used. And also the installation of rain-water storage tanks and roofs are properly insulated to ensure minimum heat gains or losses.

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

There are no alternative sources undertaken.

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

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

- Subsections 1 - 6 below must be completed for each alternative.

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 (Please cross the appropriate box).

Alternative S1 (preferred site):

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea- front
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Alternative S2 (if any):

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea- front
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Alternative S3 (if any):

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea- front
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3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Has a specialist been consulted for the completion of this section?

YES	NO
-----	---------------

If YES, please complete the following:

Name of the specialist:	N/A
Qualification(s) of the specialist:	
Postal address:	
Postal code:	

Telephone:		Cell:	
E-mail:		Fax:	

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?	YES	NO
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If YES, specify and explain:	Sperongis birds, Thameda triandra grass, Hyparhenia hirta grass, Eragrostis recemosa grass and Tristachya leucothrix grass
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Are there any special or sensitive habitats or other natural features present on any of the alternative sites?	YES	NO
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If YES, specify and explain:	
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Are any further specialist studies recommended by the specialist?	YES	NO
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If YES, specify:	N/A
	YES NO

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Signature of specialist: _____ Date: _____

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

Has a specialist been consulted for the completion of this section?

YES	NO
-----	---------------

If YES, please complete the following:

Name of the specialist:	N/A		
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?

YES	NO
-----	----

If YES, specify and explain:

--

Are there any special or sensitive habitats or other natural features present on any of the alternative sites?

YES	NO
-----	----

If YES, specify and explain:

--

Are any further specialist studies recommended by the specialist?

YES	NO
-----	----

If YES, specify:

--

If YES, is such a report(s) attached in Appendix D?

YES	NO
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Signature of specialist: _____ Date: _____

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

Natural veld - good condition^E	Natural veld with scattered aliens ^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.

5. LAND USE CHARACTER OF SURROUNDING AREA

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

Land use character			Description
Natural area	YES	NO	Undeveloped land with Thameda triandra, Hyparhena hirta, Eragrostis recemosa and Tristachya leucothrix grasses
Low density residential	YES	NO	
Medium density residential	YES	NO	
High density residential	YES	NO	
Informal residential	YES	NO	
Retail commercial & warehousing	YES	NO	
Light industrial	YES	NO	
Medium industrial	YES	NO	
Heavy industrial	YES	NO	
Power station	YES	NO	
Office/consulting room	YES	NO	
Military or police base/station/compound	YES	NO	
Spoil heap or slimes dam	YES	NO	
Quarry, sand or borrow pit	YES	NO	
Dam or reservoir	YES	NO	Dam within the farm which will be used as a source of water.
Hospital/medical centre	YES	NO	
School/ crèche	YES	NO	
Tertiary education facility	YES	NO	
Church	YES	NO	
Old age home	YES	NO	
Sewage treatment plant	YES	NO	
Train station or shunting yard	YES	NO	
Railway line	YES	NO	
Major road (4 lanes or more)	YES	NO	
Airport	YES	NO	
Harbour	YES	NO	
Sport facilities	YES	NO	

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Golf course	YES	NO	
Polo fields	YES	NO	
Filling station	YES	NO	
Landfill or waste treatment site	YES	NO	
Plantation	YES	NO	It's a farm and adjacent to other farms.
Agriculture	YES	NO	It's a farm and adjacent to other farms.
River, stream or wetland	YES	NO	
Nature conservation area	YES	NO	
Mountain, hill or ridge	YES	NO	
Museum	YES	NO	
Historical building	YES	NO	
Protected Area	YES	NO	
Graveyard	YES	NO	
Archaeological site	YES	NO	
Other land uses (describe)	YES	NO	

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 archaeological or paleontological sites, on or within 20m of the site?

YES	NO
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If YES, contact a specialist recommended by AMAFA to conduct a heritage impact assessment. The heritage impact assessment must be attached as an appendix to this report.

Briefly explain the recommendations of the specialist:

N/A

Will any building or structure older than 60 years be affected in any way?

YES	NO
YES	NO

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

If YES, please submit the necessary application to AMAFA and attach proof thereof to this report.

SECTION D: 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 competent authority) 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 local and district municipality which has jurisdiction in the area;
 - (vi) any organ of state having jurisdiction in respect of any aspect of the activity (as identified in the application form for the environmental authorization of this project); and
 - (vii) any other party as required by the competent authority;
- (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 metropolitan or district 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 sub-regulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the competent authority, 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 an application for environmental authorization has been submitted to the KZN Department of Economic Development, Tourism & Environmental Affairs in terms of the EIA Regulations, 2010;(ii)
 - (iii) a brief project description that includes the nature and location of the activity to which the application relates;
 - (iv) where further information on the application can be obtained; and
 - (iv) 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 competent authority 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 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 the EIA regulations.

Advertisements and notices must make provision for all alternatives.

4. DETERMINATION OF APPROPRIATE PROCESS

The EAP must ensure that the public participation process is according to that prescribed in regulation 54 of the EIA Regulations, 2010, but may deviate from the requirements of sub-regulation 54(2) in the manner agreed by the KZN Department of Economic Development, Tourism & Environmental Affairs as appropriate for this application. 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 competent authority 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 this application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations (regulation 57 in the EIA Regulations, 2010) and be attached as Appendix E to this report.

6. PARTICIPATION BY DISTRICT, LOCAL AND TRADITIONAL AUTHORITIES

District, local and traditional authorities (where applicable) are all 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. The planning and the environmental sections of the local authority must be informed of this application and provided with an opportunity to comment.

Has any comment been received from the district municipality?

YES ☐ NO ☒

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

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No comments have being received as yet; however this will happen after the comment period has elapsed. Comments received will be included in the final BAR

Has any comment been received from the local municipality?

☒ YES ☐ NO

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

No comments have being received as yet; however this will happen after the comment period has elapsed. Comments received will be included in the final BAR

Has any comment been received from a traditional authority?

☐ YES ☐ NO

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

The site and/or the activity do not impact directly or indirectly on to the Traditional Authorities.

7. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

☐ YES ☒ NO

If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

This Draft BAR will be sent to stakeholders for comments. The Final BAR and will have full comments from stakeholders. It will further address/respond to comments/issues/recommendations by authorities.

SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the 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.

Issues and comments provided by interested and affected parties will be included in the final report.

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 as Appendix E to this report):

Issues and comments provided by interested and affected parties will be included in the final report.

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

2.1. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN PHASE

a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the planning and design phase:

Alternative S1 (preferred alternative)

Direct impacts:

- Poor Identification of possible land for cultivation as is impacted by the farming expertise of the applicant and the EAP.

Indirect impacts:

- Degeneration of quality of agricultural resources on the farm

Cumulative impacts:

- Degeneration of quality of agricultural resources in the Bergville area

Alternative S2 (if any): There are no alternatives. The 2 portions being applied for are the only portions available for cultivation

Direct impacts:

Indirect impacts:

Cumulative impacts:

No-go alternative (compulsory)

Direct impacts:

- There will be no planning and design, hence no direct impacts to the site.

Indirect impacts:

- There will be no planning and design, hence no indirect impacts to the site.

Cumulative impacts:

- There will be no planning and design, hence no cumulative impacts to the site.

Indicate mitigation measures to manage the potential impacts listed above:

Alternative S1

- Careful planning of lands to be cultivated.
- Delineation of buffers to minimise erosion potential
- The Buffer zone and the ecological corridor with links to adjacent areas must be respected during planning phase.

Alternative S2

No alternatives are available for this project

b. Process, technology, layout or other alternatives

List the impacts associated with any process, technology, layout or other alternatives that are likely to occur during the planning and design phase (please list impacts associated with each alternative separately):

Alternative A1 (preferred alternative)

Direct impacts:

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- Poor layout of land and placing of infrastructure may lead to concentration of traffic and loss of buffer vegetation.

Indirect impacts:

- Traffic caused erosion and vegetation loss on the buffer.

Cumulative impacts:

- Soil erosion and water pollution, loss of ecological resources in the area.

Alternative A2 (if any): There are no alternatives. The 2 portions being applied for are the only portions available for cultivation

Direct impacts:

Indirect impacts:

Cumulative impacts:

No-go alternative (compulsory)

Direct impacts:

- There will be no planning and design, hence no direct impacts to the site. The site will remain untouched.

Indirect impacts:

- There will be no planning and design, hence no indirect impacts to the site.

Cumulative impacts:

- There will be no planning and design, hence no cumulative impacts to the site.

Indicate mitigation measures to manage the potential impacts listed above:

Alternative A1:

- Ensure that infrastructure is placed at strategic places
- Avoid concentrating traffic in one spot of the portion.
- Avoid unnecessary vegetation disturbances
- Usage of no-plough method will enhance biodiversity or at least minimise loss of biodiversity.
- Practice scientifically proved veld management in line with sustainable land uses.

Alternative A2:

N/A

2.2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION PHASE

a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the construction phase:

Alternative S1 (preferred site)

Direct impacts:

- Poorly planned construction season will lead to soil erosion and dust generation
- The vegetation disturbance will occur during the laying of pipes and irrigation pivots (subject to water use licence granting).
- Increased traffic to land during construction leading to vegetation distraction on the existing internal farm roads.

Indirect impacts:

"Leading the attainment of inclusive growth for job creation and economic sustenance"

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- Noise may arise during construction phase due to traffic and machinery movements

Cumulative impacts:

- Increased run-off from hardened surfaces during this phase leading to soil erosion

Alternative S2 (if any) There are no alternatives. The 2 portions being applied for are the only portions available for cultivation

Direct impacts:

Indirect impacts:

Cumulative impacts:

No-go alternative (compulsory)

Direct impacts:

- There will be no vegetation disturbance will occur during the laying of pipes and irrigation infrastructure.
- There will be no increased traffic to land during construction

Indirect impacts:

- No noise shall arise during construction phase due to traffic and machinery movements.

Cumulative impacts:

- No increased run-off from hardened surfaces during this phase nor soil erosion.

Indicate mitigation measures to manage the potential impacts listed above:

Alternative S1

- Ensure minimum ground cover disturbance.
- Compact loose soils properly
- Where possible, Allow for rehabilitation prior to contact disturbed soils.
- Minimise traffic movements to bare minimum required.
- Limit noise to the construction site
- Construction to be limited to daylight working hours only.

Alternative S2

N/A

b. Process, technology, layout or other alternatives

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the construction phase (please list impacts associated with each alternative separately):

Alternative A1 (preferred alternative)

Direct impacts:

- The vegetation disturbance will occur during the laying of pipes and irrigation pivots (subject to water use licence granting).
- Increased traffic to land during construction leading to vegetation distraction on the existing internal farm roads.

Indirect impacts:

- Noise may arise during construction phase due to traffic and machinery movements

Cumulative impacts:

- Increased run-off from hardened surfaces during this phase leading to soil erosion

Alternative A2 There are no alternatives. The 2 portions being applied for are the only portions available for

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cultivation

Direct impacts:**Indirect impacts:****Cumulative impacts:****No-go alternative (compulsory)****Direct impacts:**

- There will be no vegetation disturbance will occur during the laying of pipes and irrigation infrastructure
- There will be no increased traffic to land during construction

Indirect impacts:

- No noise shall arise during construction phase due to traffic and machinery movements

Cumulative impacts:

- No increased run-off from hardened surfaces during this phase nor soil erosion

Indicate mitigation measures to manage the potential impacts listed above:

Alternative A1:

- Ensure minimum ground cover disturbance.
- Compact loose soils properly
- Where possible, Allow for rehabilitation prior to contact disturbed soils.
- Minimise traffic movements to bare minimum required.
- Limit noise to the construction site
- Construction to be limited to daylight working hours only.

Alternative A2:

N/A

2.3. IMPACTS THAT MAY RESULT FROM THE OPERATIONAL PHASE

a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the operational phase:

Alternative S1 (preferred alternative)**Direct impacts:**

- Increased storm water run-off due to lack of natural vegetation.
- Deteriorating water quality
- Loss of native plants and animals and their habitats
- Soil erosion may occur within the newly cultivated areas.
- Inefficient use of water
- Impacts of farm infrastructure

Indirect impacts:

- Change in the sense of place
- Potential disturbance and damage to freshwater features
- Potential for soil erosion as a result of removal of natural vegetation.

Cumulative impacts:

- Additional water consumption in the farm

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- Increase/higher the production rate, GDP and increase exports.

Alternative S2 (if any) There are no alternatives. The 2 portions being applied for are the only portions available for cultivation

No-go alternative (compulsory)

Direct impacts:

- Continued invasion of natural vegetation by exotics.
- No reduction of high demand of food security.
- No loss of natural veld

Indirect impacts:

- Negative socio-economic benefits
- Avoidance of potential for soil erosion which could result from the removal of natural vegetation.

Cumulative impacts:

- Loss of potential direct and indirect employment opportunities, as well as the loss of stimulation in the local economy.

Indicate mitigation measures to manage the potential impacts listed above:

Alternative S1

- Water runoff from higher lying areas must be taken with a storm water furrow, of adequate size, above the development areas towards a safe collection point where no erosion will take place.
- Erosion control measures should be practised, e.g. grassing of spillways and trickle flow pipes).
- All herbicides and pesticides should be organic
- An alien vegetation removal programme must be implemented.
- The conservation method of cultivation (pasture cropping) must be practised at all times.
- Any areas of erosion formulate should be rehabilitated as soon as possible.
- Adequate crop cover must be used until the soil of the newly cropped areas has stabilised.
- The protection of existing habitats to avoid loss of plants, animals and their habitats.
- Ensure efficient use of water especially of irrigation during or after rainfall.
- Rocks and vegetation debris should not be dumped on adjacent natural vegetation.
- Dust levels should be kept to a minimum

Alternative S2

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to avoid smothering of sensitive areas by windblown sediments.	
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b. Process, technology, layout or other alternatives

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the operational phase (please list impacts associated with each alternative separately):

Alternative A1 (preferred alternative)

Direct impacts:

- Increased storm water run-off due to lack of natural vegetation.
- Depletion of underground aquifers through over-drafting
- Deteriorating water quality
- Loss of native plants and animals and their habitats
- Soil erosion may occur within the newly cultivated areas.
- Inefficient use of water
- Impacts of storage infrastructure.

Indirect impacts:

- Change in the sense of place
- Potential disturbance and damage to freshwater features.
- Potential for soil erosion as a result of removal of natural vegetation.

Cumulative impacts:

- Additional water consumption in the farm.
- Higher the production rate of the farm

Alternative A2 There are no alternatives. The 2 portions being applied for are the only portions available for cultivation

Direct impacts:

Indirect impacts:

Cumulative impacts:

No-go alternative (compulsory)

Direct impacts:

- Continued invasion of natural vegetation by exotics.
- No reduction of high demand of food security.
- No loss of natural veld.

Indirect impacts:

- Negative socio-economic benefits
- Avoidance of potential for soil erosion which could result from the removal of natural vegetation.

Cumulative impacts:

- Loss of potential direct and indirect employment opportunities, as well as the loss of stimulation in the local economy.

Indicate mitigation measures to manage the potential impacts listed above:

Alternative A1

- Water runoff from higher lying areas must be taken with a storm water furrow, of adequate size, above the development areas towards a safe collection point where no

Alternative A2

N/A

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<p>erosion will take place.</p> <ul style="list-style-type: none"> • Erosion control measures should be practised, e.g. grassing of spillways and trickle flow pipes). • All herbicides and pesticides should be organic • An alien vegetation removal programme must be implemented. • The conservation method of cultivation (pasture cropping) must be practised at all times. • Any areas of erosion formulate should be rehabilitated as soon as possible. • Adequate crop cover must be used until the soil of the newly cropped areas has stabilised. • The protection of existing habitats to avoid loss of plants, animals and their habitats. • Ensure efficient use of water especially of irrigation during or after rainfall. • Rocks and vegetation debris should not be dumped on adjacent natural vegetation. • Dust levels should be kept to a minimum to avoid smothering of sensitive areas by windblown sediments. 	
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2.4. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING OR CLOSURE PHASE

It is highly unlikely that the proposed development would ever be decommissioned.

List the potential impacts associated with site alternatives that are likely to occur during the decommissioning or closure phase:

Alternative S1 (preferred alternative)

Direct impacts:

- Loss of job opportunities.
- Decrease in agricultural production of the farm.
- Soil erosion could increase on site if not properly managed and cause sedimentation to the water systems.
- Potential for establishment of alien vegetation if there no long-term management of the site.
- Potential to reinstate the natural grassland habitats and wetland area.

Indirect impacts:

- Decrease in agricultural production of the farm

Cumulative impacts:

- Increase in unemployment rate, hence potential for crime to increase as well.

Alternative S2 There are no alternatives. The 2 portions being applied for are the only portions available for cultivation

Direct impacts:

Indirect impacts:

Cumulative impacts:

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No-go alternative (compulsory)

Direct impacts:

- There will be no decommissioning on this option.

Indirect impacts:

- There will be no decommissioning on this option.

Cumulative impacts:

- There will be no decommissioning on this option.

Indicate mitigation measures to manage the potential impacts listed above:

Alternative S1

- Implementation of an Alien Vegetation Control Programme should apply on site.
- Allow the farm to rehabilitate naturally.
- Ensure effective erosion control structures are installed and managed long-term.
- An adequate cover crop must be planted to stabilize the soil in order to prevent erosion.

Alternative S2

- Implementation of an Alien Vegetation Control Programme should apply on site.
- Allow the farm to rehabilitate naturally.
- Ensure effective erosion control structures are installed and managed long-term. An adequate cover crop must be planted to stabilize the soil in order to prevent erosion.

b. Process, technology, layout or other alternatives

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the decommissioning or closure phase (please list impacts associated with each alternative separately):

Alternative A1 (preferred alternative)**Direct impacts:**

- Loss of job opportunities.
- Decrease in agricultural production in the farm
- Soil erosion could increase on site if not properly managed and cause sedimentation to the water systems.
- Potential for establishment of alien vegetation if there no long-term management of the site.
- Potential to reinstate the natural grassland habitats and wetland area.

Indirect impacts:

- Decrease in agricultural production and in the GDP.

Cumulative impacts:

- Increase in unemployment rate, hence potential for crime to increase as well.

Alternative A2**Direct impacts:****Indirect impacts:****Cumulative impacts:****No-go alternative (compulsory)****Direct impacts:**

- Natural veld will remain at the current condition
- Potential for alien plants will increase due to neglect of the portion of land.
- Fire protection will increase.

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- Loss of job opportunities
- Decrease in agricultural production and in the GDP
- Soil erosion could increase on site if not properly managed and cause sedimentation to the water systems.
- Potential for establishment of alien vegetation if there no long-term management of the site.
- Potential to reinstate the natural grassland habitats and wetland area.

Indirect impacts:

- Decrease in agricultural production and in the GDP

Cumulative impacts:

- Increase in unemployment rate, hence potential for crime to increase as well.
- Decrease viability of the farming unit.

Indicate mitigation measures to manage the potential impacts listed above:

Alternative A1	Alternative A2
<ul style="list-style-type: none"> • Implement an appropriate rehabilitation plan • Implementation of an Alien Vegetation Control Programme should apply on site. • Allow the farm to rehabilitate naturally. • Ensure effective erosion control structures are installed and managed long-term. 	N/A

2.5. PROPOSED MONITORING AND AUDITING

For each phase of the project and for each alternative, please indicate how identified impacts and mitigation will be monitored and/or audited.

Alternative S1 (preferred site)	Alternative S2
<ul style="list-style-type: none"> • Formulation of a site specific Environmental Management Programme containing all the recommendations made shall be implemented. • The ECO will be responsible for perform all task assigned to the ECO in the EMPr, keep record of all the activities on site, problems identified and transgressions noted, assist in ensuring environmental implementation of appropriate environmental authorisation and approved EMPr, and Providing guidance/advice that ensures implementation of appropriate environmental management measures and adherence with environmental legislation/regulations • The ECO will be required to conduct monthly environmental audit and submits reports every month end. • The ECO must quarterly monitor surface and ground water quality at points that will be established in consultation with 	<ul style="list-style-type: none"> • Formulation of a site specific Environmental Management Programme containing all the recommendations made shall be implemented. • The ECO will be responsible for perform all task assigned to the ECO in the EMPr, keep record of all the activities on site, problems identified and transgressions noted, assist in ensuring environmental implementation of appropriate environmental authorisation and approved EMPr, and Providing guidance/advice that ensures implementation of appropriate environmental management measures and adherence with environmental legislation/regulations • The ECO will be required to conduct monthly environmental audit and submits reports every month end. • The ECO must quarterly monitor surface and ground water quality at points that will be established in consultation with

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the Department of Water Affairs.	the water affairs.
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Alternative A1 (preferred alternative)	Alternative A2
	N/A

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 S1 (preferred site)

The proposed development will not have significance impacts if the mitigation measures and management of the impacts are undertaken. The proposed cultivation of land will about positive change in terms of high agricultural production, food security, increase exports, security of employment, improve viability of the farming unit, increase economic activity in rural communities, processing and flow-on outputs. It's also supports reliable water supply due to the consistent quantity and quality agricultural production. Supporting agricultural development is a local authority initiative (IDP) and the Hunters Rest Farm falls under the primary corridor arms for agricultural activities (SDF). Good management of land-use and infrastructure can bring about positive change not only for the present but for the future generation. Hence long term economic benefits.

There is an imperative for emerging Farmers to succeed and to build a legacy of skills and thus capacity to sustain the effort to uplift the poor. This farming unit can contribute to this objective. Provided that the recommendations within the EMPr are adhered to, the risks associated with the proposed development will be adequately mitigated.

Alternative S2

There are no site alternatives. The 2 portions being applied for are the only portions available for cultivation

Alternative A1 (preferred alternative)

The applicant specifically chosen the cultivation of rye grass on permanent pasture as well as plantation of soya beans and maize because there is a need to increase the productivity of crops plantation due to the rapid increase of human population; hence there is high demand for food security. Natural veld cannot fulfil this need unless the land is used for irrigation. Irrigation can transform the land and landscape, and it can also transform society. Also the production of more crops means there will be reduction of food demands due the rising population growth.

Alternative A2

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No-go alternative (compulsory)

- There will be no changes to the natural environment should the development not go ahead.
- The invasion of natural vegetation by exotics will continue.
- There will be no reduction of high demand of food security.
- There will be no loss of natural veld.

SECTION F. RECOMMENDATION OF EAP

Is the information contained in this report and the documentation attached hereto in the view of the EAPr sufficient to make a decision in respect of this report?

If "NO", please contact the KZN Department of Economic Development, Tourism & Environmental Affairs regarding the further requirements for your report.

YES	NO

If "YES", please attach the draft EMPr as Appendix F to this report and 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:

General:

- An EMPr for the site operation must be finalised and approved by DEDTEA.
- The Environmental Control Officer (ECO) must be appointed to perform the all tasks required including conducting monthly audits and preparing monthly audits reports.

Vegetation:

- An alien vegetation control programme must be implemented on the site.

Soil and Water Management:

- Appropriate erosion and stormwater management structures must be installed onsite. Stormwater should be channelled into existing natural drainage lines.
- All agricultural vehicles and machinery and equipment must be properly maintained and serviced at all times.
- Vegetation clearing on the site should take place only immediately prior to cultivation in order to minimise the time the soil is bare, thus minimising soil erosion.

Environmental Awareness and the EMPr:

- An environmental awareness training programme for all staff members must be put in place by the Contractor. Before commencing with any work, all staff members must be appropriately briefed about the EMPr and relevant occupational health and safety issues.
- No burning of refuse or vegetation is permitted on site.
- Disturbance to animals and their habitats should be prevented at all times.
- Care must be taken to avoid the introduction of alien plant species to the site and re-growth must be controlled when it occurs.

Operation:

- Any areas of erosion which establish should be rehabilitated as soon as possible.
- An adequate crop cover must be used until the soil of the newly pasture cropped areas has

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- | |
|--|
| <p>stabilised or mulch should be applied to stabilise the soil.</p> <ul style="list-style-type: none">• The conservation tillage method of cultivation must be employed. |
|--|

SECTION G: APPENDIXES

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: Draft Environmental Management Programme (EMPr)

Appendix G: Other information