

Draft Basic Assessment Report

for

EGGBERT EGGS (PTY) LTD

Prepared by:

Bucandi Environmental Solutions



Environmental concerns ? Solved!

Project Manager: H len Prinsloo (*Pr.Sci.Nat.*) Reg. No. 400108/11 (SACNASP)

June 2017

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Department :
Economic Development, Tourism and
Environmental Affairs

PROVINCE OF KWAZULU-NATAL

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

DC/
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).**

DEPARTMENTAL REFERENCE NUMBER(S)

File reference number (EIA):	
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:	Bucandi Environmental Solutions		
Physical address:	23 Burger Street, Viljoenskroon		
Postal address:	P. O. Box 317, Viljoenskroon		
Postal code:	9520	Cell:	076 682 4369
Telephone:		Fax:	086 551 1894
E-mail:	helen@bucandi.co.za		

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)
Helen Prinsloo	M.Tech (Nature Conservation)	South African Council for Natural Scientific Professionals Reg. No. 400108/11 Pr.Sci.Nat	10

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:

Glenleitch construction of 4 environmentally controlled chicken breeder houses.

2. PROJECT DESCRIPTION

Provide a detailed description of the project:

Eggbert is proposing the construction of 4 environmentally controlled chicken breeder houses with the capacity to hold up to 48 000 breeders per house on Glenleitch 871 HT formally known as Bedrog 607 HT situated in the Zululand District within Abaqulusi Local Municipality. The need for a Basic Assessment is triggered by Listing 1; activity 5(ii) in GN R983 dated 04 December 2014 namely the development and related operation of facilities or infrastructure for the concentration of (ii) more than 5 000 poultry per facility situated outside an urban area, excluding chicks younger than 20 days. (iv) more than 25 000 chicks younger than 20 days per facility situated outside an urban area. The entire facility will be able to house up to 192 000 breeder birds.

The project will entail the following:

Earthworks and clearing of vegetation (plantation and planted pasture) on the site for 4 breeder houses.

Construction of 4 environmentally controlled chicken breeder houses (111m x 15m)

Construction of an egg house (24m x 24m) with a generator room (4m x 4m)

The site will be fenced off with a 2.4m high electric fence.

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:

Listing Notice 1 (GNR R983, 4 December 2014) Activity 5 (ii):

The development and related operation of facilities or infrastructure for the concentration of (ii) more than 5 000 poultry per facility situated outside an urban area, excluding chicks younger than 20 days.

Listing Notice 1 (GNR R983, 4 December 2014) Activity 5 (iv):

The development and related operation of facilities or infrastructure for the concentration of (iv) more than 25 000 chicks younger than 20 days per facility situated outside an urban area.

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;
- (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

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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.

a) Activity alternatives

Alternatives	Description															
Alternative 1 (preferred or only alternative)	Four environmentally controlled, closed chicken breeder houses (approximately 111m X 15m.) will be constructed with a capacity for 48 000 chickens each. A water tank and a silo for food will be constructed next to each house with underground pipelines connecting the water tanks with the new boreholes. An egg house (24m x 24m) with a generator room (4m x 4m) will be built on site. A 2.4m electric fence with an entry gate (with biosecurity control measures) will be constructed around the site. Electricity lines will be connected to the water tanks and all the houses															
Alternative 2	<p>The site lay-out will be exactly as for A1, but the chicken houses will be open and not environmentally controlled. The differences between closed houses (A1) and open houses (A2) are as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">A1 – Environmentally controlled</th> <th style="width: 25%;">A2 – Open</th> </tr> </thead> <tbody> <tr> <td>Isolation value (R)</td> <td style="text-align: center;">12</td> <td style="text-align: center;">1.5</td> </tr> <tr> <td>Heat capacity</td> <td style="text-align: center;">1 100kW</td> <td style="text-align: center;">1 500kW</td> </tr> <tr> <td>Chickens/m²</td> <td style="text-align: center;">14</td> <td style="text-align: center;">13</td> </tr> <tr> <td>Energy saving</td> <td style="text-align: center;">20%</td> <td style="text-align: center;">0%</td> </tr> </tbody> </table>		A1 – Environmentally controlled	A2 – Open	Isolation value (R)	12	1.5	Heat capacity	1 100kW	1 500kW	Chickens/m ²	14	13	Energy saving	20%	0%
	A1 – Environmentally controlled	A2 – Open														
Isolation value (R)	12	1.5														
Heat capacity	1 100kW	1 500kW														
Chickens/m ²	14	13														
Energy saving	20%	0%														

b) No-go alternative

If the proposed activity does not go ahead, the site will be used for cattle grazing.

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 ¹ (preferred or only site alternative)	27°	55'	42"	32°
			35'	17"

¹ "Alternative S.." refer to site alternatives.

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Alternative S2 (if any)
Alternative S3 (if any)

0	€	"	0	€	"
0	€	"	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 point of the activity
- End point of the activity

0	€	"	0	€	"
0	€	"	0	€	"
0	€	"	0	€	"

Alternative S2 (if any)

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

0	€	"	0	€	"
0	€	"	0	€	"
0	€	"	0	€	"

Alternative S3 (if any)

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

0	€	"	0	€	"
0	€	"	0	€	"
0	€	"	0	€	"

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:

Size of the activity:

Alternative A1² (preferred activity alternative)

41 422.16m ²
41 422.16m ²
m ²

Alternative A2 (if any)

Alternative A3 (if any)

or, for linear activities:

Alternative:

Length of the activity:

Alternative A1 (preferred activity alternative)

m
m
m

Alternative A2 (if any)

Alternative A3 (if any)

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

Alternative:

Size of the site/servitude:

Alternative A1 (preferred activity alternative)

3 724 062.94m ²
3 724 062.94m ²
m ²

Alternative A2 (if any)

Alternative A3 (if any)

² "Alternative A.." refer to activity, process, technology or other alternatives.

7. SITE ACCESS

a) Activity alternative 1

Does ready access to the site exist?

YES	NO
X	
m	

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

Describe the type of access road planned:

The road between Bloodriver (north) and Ntabebomvu (south) runs 1km west of the site with a farm road leading directly to the site.

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.

b) Activity alternative 2

Does ready access to the site exist?

YES	NO
X	
m	

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

Describe the type of access road planned:

The road between Bloodriver (north) and Ntabebomvu (south) runs 1km west of the site with a farm road leading directly to the site.

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.

c) No-go alternative

Does ready access to the site exist?

YES	NO
X	
m	

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

Describe the type of access road planned:

The road between Bloodriver (north) and Ntabebomvu (south) runs 1km west of the site with a farm road leading directly to the site.

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.

The site or route plans must indicate the following:

- 1.1. the scale of the plan which must be at least a scale of 1:500;
- 1.2. the property boundaries and numbers/ erf/ farm numbers of all adjoining properties of the site;
- 1.3. the current land use as well as the land use zoning of each of the properties adjoining the site or sites;

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- 1.4. the exact position of each element of the application as well as any other structures on the site;
- 1.5. 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;
- 1.6. walls and fencing including details of the height and construction material;
- 1.7. servitudes indicating the purpose of the servitude;
- 1.8. 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);
- 1.9. 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
- 1.10. 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

a) Socio-economic value of the activity

i. Activity alternative 1

What is the expected capital value of the activity on completion?	R4 800 000	
What is the expected yearly income that will be generated by or as a result of the activity?	R 880 000	
Will the activity contribute to service infrastructure?	YES X	NO
Is the activity a public amenity?	YES X	NO
How many new employment opportunities will be created in the development phase of the activity?	40	
What is the expected value of the employment opportunities during the development phase?	R 200 000	

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What percentage of this will accrue to previously disadvantaged individuals?	95%
How many permanent new employment opportunities will be created during the operational phase of the activity?	8
What is the expected current value of the employment opportunities during the first 10 years?	R2 240 000
What percentage of this will accrue to previously disadvantaged individuals?	90%

ii. Activity alternative 2

What is the expected capital value of the activity on completion?	R4 800 000	
What is the expected yearly income that will be generated by or as a result of the activity?	R 880 000	
Will the activity contribute to service infrastructure?	YES X	NO
Is the activity a public amenity?	YES X	NO
How many new employment opportunities will be created in the development phase of the activity?	40	
What is the expected value of the employment opportunities during the development phase?	R 200 000	
What percentage of this will accrue to previously disadvantaged individuals?	95%	
How many permanent new employment opportunities will be created during the operational phase of the activity?	8	
What is the expected current value of the employment opportunities during the first 10 years?	R2 240 000	
What percentage of this will accrue to previously disadvantaged individuals?	90%	

iii. No-go alternative

What is the expected capital value of the activity on completion?	R0	
What is the expected yearly income that will be generated by or as a result of the activity?	R0	
Will the activity contribute to service infrastructure?	YES	NO X
Is the activity a public amenity?	YES	NO X
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?	R0	
What percentage of this will accrue to previously disadvantaged individuals?	0%	
How many permanent new employment opportunities will be created during the operational phase of the activity?	0	
What is the expected current value of the employment opportunities during the first 10 years?	R0	
What percentage of this will accrue to previously disadvantaged individuals?	0%	

b) Need and desirability of the activity

i. Activity alternative 1

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

The facility will provide increased food availability; in particular poultry products. Chicken products are highly desirable as a food item across all income groups in South Africa

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

Internationally poultry production has increased significantly over the past few years in line with increased consumer demands for poultry products and expectations are that consumer demand will continue to increase. Due to overcrowding of present facilities, lack of additional facilities and therefore the potential for increased biological risk, suppliers have embarked on a process of establishing new facilities in order to overcome these problems and ensure the long term sustainability and viability of the industry.

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

The socio-economic value of the project will indirectly have a positive impact on the immediate area as well as cater for the increasing demand for poultry products in KwaZulu-Natal and nationally. At least 40 temporary employment opportunities will be created during the development and construction phase. At least 8 people will be permanently employed during the operational phase of the activity. Contractors are employed during the construction phase and additional employment opportunities are therefore created.

ii. Activity alternative 2

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

The facility will provide increased food availability; in particular poultry products. Chicken products are highly desirable as a food item across all income groups in South Africa

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

Internationally poultry production has increased significantly over the past few years in line with increased consumer demands for poultry products and expectations are that consumer demand will continue to increase. Due to overcrowding of present facilities, lack of additional facilities and therefore the potential for increased biological risk, suppliers have embarked on a process of establishing new facilities in order to overcome these problems and ensure the long term sustainability and viability of the industry.

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

The socio-economic value of the project will indirectly have a positive impact on the immediate area as well as cater for the increasing demand for poultry products in KwaZulu-Natal and nationally. At least 40 temporary employment opportunities will be created during the development and construction phase. At least 8 people will be permanently employed during the operational phase of the activity. Contractors are employed during the construction phase and additional employment opportunities are therefore created.

iii. No-go activity

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

Agriculture contributes to local economy and national food security.

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

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Agriculture contributes to local economy and national food security.
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Indicate any benefits that the activity will have for the local communities where the activity will be located:

None since the existing workforce will be used.

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:

i. Activity alternative 1

Title of legislation, policy or guideline:	Administering authority:	Date:
National Environmental Management Act, Act No. 107 of 1998.	KwaZulu-Natal Department of Economic Development & Tourism and Environmental Affairs	1998
Listing 1 of regulation 983 promulgated under Chapter 5 of the National Environmental Management Act (NEMA, Act 107 of 1998) in Government Gazette 38282. Listed activity 5(ii) & (iv).		1998
National Water Act, Act No. 36 of 1998.	Department of Water Affairs	1998
Conservation of Agricultural Resources Act, Act No. 43 of 1983	KwaZulu-Natal Department of Economic Development & Tourism and Environmental Affairs	1983
Air Quality Act, Act No. 39 of 2004. Reg. 983 published on 22 November 2013 in GN 37054	Zululand District Municipality	2004 2013
Heritage Act, Act No 25 of 1999.	South African Heritage Resources Act	1999
Meat Safety Act, Act 40 of 2000 Poultry Regulations, Reg. 153 published on 24 February 2006 in GN 8402.	KwaZulu-Natal Department of Economic Development & Tourism and Environmental Affairs	2000 2006
National Environmental Management: Waste Act, Act No. 59 of 2008 Listed Activities Reg. 921 published on 29 November 2013 in GN 37083	KwaZulu-Natal Department of Economic Development & Tourism and Environmental Affairs	2008
Occupational Health and Safety Act, Act 85 of 1993 Noise regulation, 2003		2003

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Environmental regulations for workplaces, 1987		1987
Facility regulations, 1990		1990
General Health and Safety Regulations, 1986		1986
Electrical Installation Regulations, 2009.		2009
Electrical Machinery Regulations, 1988.		1988
Construction Regulations, 2014		2014

ii. Activity alternative 2

Title of legislation, policy or guideline:	Administering authority:	Date:
National Environmental Management Act, Act No. 107 of 1998.	KwaZulu-Natal Department of Economic Development & Tourism and Environmental Affairs	1998
Listing 1 of regulation 983 promulgated under Chapter 5 of the National Environmental Management Act (NEMA, Act 107 of 1998) in Government Gazette 38282. Listed activity 5(ii) & (iv).		1998
National Water Act, Act No. 36 of 1998.	Department of Water Affairs	1998
Conservation of Agricultural Resources Act, Act No. 43 of 1983	KwaZulu-Natal Department of Economic Development & Tourism and Environmental Affairs	1983
Air Quality Act, Act No. 39 of 2004. Reg. 983 published on 22 November 2013 in GN 37054	Zululand District Municipality	2004 2013
Heritage Act, Act No 25 of 1999.	South African Heritage Resources Act	1999
Meat Safety Act, Act 40 of 2000 Poultry Regulations, Reg. 153 published on 24 February 2006 in GN 8402.	KwaZulu-Natal Department of Economic Development & Tourism and Environmental Affairs	2000 2006
National Environmental Management: Waste Act, Act No. 59 of 2008 Listed Activities Reg. 921 published on 29 November 2013 in GN 37083	KwaZulu-Natal Department of Economic Development & Tourism and Environmental Affairs	2008
Occupational Health and Safety Act, Act 85 of 1993 Noise regulation, 2003		2003

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Environmental regulations for workplaces, 1987		1987
Facility regulations, 1990		1990
General Health and Safety Regulations, 1986		1986
Electrical Installation Regulations, 2009.		2009
Electrical Machinery Regulations, 1988.		1988
Construction Regulations, 2014		2014

iii. No-go alternative

Title of legislation, policy or guideline:	Administering authority:	Date:
None	N/A	N/A

13. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

i. Activity alternative 1

Will the activity produce solid construction waste during the construction/initiation phase?	YES	NO
	√	
If yes, what estimated quantity will be produced per month?	1.6m ³	

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

Waste is expected to be limited to packaging materials (shrink wrap, cardboard) and litter generated by the construction staff. Waste will be recycled as far as possible. Non-recyclable waste will be sorted into different types and disposed of at a suitably licensed waste disposal facility

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

Construction phase solid waste will be disposed of at the nearest licensed waste disposal site (Newcastle Municipal Dump). Waste considered unsuitable for municipal waste disposal sites will be disposed of at a suitably licensed hazardous waste disposal facility (e.g. WasteTech).

Will the activity produce solid waste during its operational phase?	YES	NO
	√	
If yes, what estimated quantity will be produced per month?	4m ³	

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

Operational phase solid waste will be disposed of at the nearest licensed waste disposal site (Newcastle Municipal Dump). Waste considered unsuitable for municipal waste disposal sites will be disposed of at a suitably licensed hazardous waste disposal facility (e.g. WasteTech).

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

Any general waste such as litter generated by staff will be disposed of at the nearest licensed waste disposal site (Newcastle Municipal Dump)

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
		√

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
	√

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

ii. Activity alternative 2

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

YES	NO
√	

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

1.6m ³	
-------------------	--

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

Waste is expected to be limited to packaging materials (shrink wrap, cardboard) and litter generated by the construction staff. Waste will be recycled as far as possible. Non-recyclable waste will be sorted into different types and disposed of at a suitably licensed waste disposal facility

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

Construction phase solid waste will be disposed of at the nearest licensed waste disposal site (Newcastle Municipal Dump). Waste considered unsuitable for municipal waste disposal sites will be disposed of at a suitably licensed hazardous waste disposal facility (e.g. WasteTech).

Will the activity produce solid waste during its operational phase?

YES	NO
√	

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

4m ³	
-----------------	--

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

Operational phase solid waste will be disposed of at the nearest licensed waste disposal site (Newcastle Municipal Dump). Waste considered unsuitable for municipal waste disposal sites will be disposed of at a suitably licensed hazardous waste disposal facility (e.g. WasteTech).

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

Any general waste such as litter generated by staff will be disposed of at the nearest licensed waste disposal site (Newcastle Municipal Dump)

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
	√

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
	√

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

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iii. No-go alternative:

Will the activity produce solid construction waste during the construction/initiation phase?	YES	NO √
If YES, what estimated quantity will be produced per month?	0 m ³	

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

No solid waste will be produced.

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

No solid waste will be produced.

Will the activity produce solid waste during its operational phase?	YES	NO √
If YES, what estimated quantity will be produced per month?	0m ³	
How will the solid waste be disposed of (describe)?	No solid waste will be produced.	

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

No solid waste will be produced.

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

No solid waste will be produced.

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 √
--	-----	---------

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 √
---	-----	---------

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

b) Liquid effluent

i. Activity alternative 1

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

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

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another facility?

	√
--	---

If yes, provide the particulars of the facility:

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

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

After the completion of each cycle, the chickens and all manure are removed. After removal, all surfaces are sprayed with foam based detergent that is left to evaporate. Upon completion of this process, the floors of the houses are washed with water only that will be allowed to soak into the soil surrounding the facility.

ii. Activity alternative 2

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? m³

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

Yes	√
-----	---

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
	√

If yes, provide the particulars of the facility:

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

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

After the completion of each cycle, the chickens and all manure are removed. After removal, all surfaces are sprayed with foam based detergent that is left to evaporate. Upon completion of this process, the floors of the houses are washed with water only that will be allowed to soak into the soil surrounding the facility.

iii. No-go alternative:

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	
YES	NO √

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

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 √
-----	---------

If YES, provide the particulars of the facility:

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

c) Emissions into the atmosphere

i. Activity alternative 1

Will the activity release emissions into the atmosphere?

YES	√
YES	NO √

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

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:

Since the houses will be closed and environmentally controlled, the amounts of dust, ammonia and odours released into the atmosphere will be minimal.

ii. Activity alternative 2

Will the activity release emissions into the atmosphere?

YES	√
YES	NO √

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

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:

If this activity alternative is chosen, open houses will be used and relatively high amounts of dust, ammonia and odours will be released into the atmosphere, being of some discomfort to neighbours.

iii. No-go alternative:

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

YES	NO √
-----	---------

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

YES	NO √
-----	---------

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

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

No emissions will be released by the activity.

d) Generation of noise

i. Activity alternative 1

Will the activity generate noise?

YES	NO √
-----	---------

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:

The fans used inside the chicken houses will generate low levels of noise. Noise levels (at existing chicken broiler houses) were measured directly outside the boiler room and 100m away from the fans. In both cases the levels read 58db. Low levels of noise will be produced by the chickens in the houses as well.

ii. Activity alternative 2

Will the activity generate noise?

YES	NO √
-----	---------

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:

Since the houses are open, low levels of noise will be produced by the chickens inside the houses.

iii. No-go alternative

Will the activity generate noise?

YES	NO √
-----	---------

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

YES	NO √
-----	---------

Describe the noise in terms of type and level:

Low levels of noise will be produced during cultivation of the fields

14. WATER USE

i. Activity alternative 1

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

municipal	water board	Groundwater X	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:

280 000 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.

Applications for registration and General Authorisation / Water Use Licence will be submitted as soon as the new boreholes have been drilled.

ii. Activity alternative 2

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

municipal	water board	Groundwater X	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:

280 000 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.

Applications for registration and General Authorisation / Water Use Licence will be submitted as soon as the new boreholes have been drilled.

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iii. No-go alternative:

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 X
-----------	-------------	-------------	----------------------------------	-------	---

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:

0 litres	
YES	NO √

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

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

15. ENERGY EFFICIENCY

i. Activity alternative 1

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

Because of a higher isolation (R) value (12 for closed houses versus 1.5 for open houses) the use of fans for cooling in summer are much lower in closed houses than in open houses. During winter, closed houses also retain heat much longer and need substantially less heating than open houses. Energy efficient fans are also used. All the houses are fitted with a day light switch in order for outside lights only to be on when absolutely necessary. All lights inside the house make use of energy saving light bulbs.

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

None

ii. Activity alternative 2

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

Because of a higher isolation (R) value (12 for closed houses versus 1.5 for open houses) the use of fans for cooling in summer are much lower in closed houses than in open houses. During winter, closed houses also retain heat much longer and need substantially less heating than open houses. Energy efficient fans are also used. All the houses are fitted with a day light switch in order for outside lights only to be on when absolutely necessary. All lights inside the house make use of energy saving light bulbs.

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

None

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iii. No-go alternative

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

None

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

None

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
------	------------------	-------------	-------------	--------------	-------------	------------------

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
-----------	--------------	-----------------------------	---------------	-------------	-------	----------------------------	------	-----------

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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

YES	NO X
-----	---------

If YES, please complete the following:

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:	<input type="text"/>	Cell:	<input type="text"/>
E-mail:	<input type="text"/>	Fax:	<input type="text"/>

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

YES	NO X
-----	---------

If YES, specify and explain:

<input type="text"/>

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Are there any special or sensitive habitats or other natural features present on any of the alternative sites?	YES	NO X
If YES, specify and explain:		
Are any further specialist studies recommended by the specialist?	YES	NO X
If YES, specify:		
If YES, is such a report(s) attached in <u>Appendix D</u> ?	YES	NO X

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. GROUND COVER

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

YES	NO
	X

If YES, please complete the following:

Name of the specialist:			
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
-----	----

Signature of specialist: _____ Date:

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 X	
Low density residential	YES	NO X	
Medium density residential	YES	NO X	
High density residential	YES	NO X	
Informal residential	YES	NO X	
Retail commercial & warehousing	YES	NO X	
Light industrial	YES X	NO	Chicken breeder houses are located to the west, north and east. This forms part of the same facility that the current application is for.
Medium industrial	YES	NO X	
Heavy industrial	YES	NO X	
Power station	YES	NO X	
Office/consulting room	YES	NO X	
Military or police base/station/compound	YES	NO X	
Spoil heap or slimes dam	YES	NO X	
Quarry, sand or borrow pit	YES	NO X	
Dam or reservoir	YES	NO X	
Hospital/medical centre	YES	NO X	
School/ creche	YES	NO X	
Tertiary education facility	YES	NO X	
Church	YES	NO X	
Old age home	YES	NO X	
Sewage treatment plant	YES	NO X	
Train station or shunting yard	YES	NO X	
Railway line	YES	NO X	
Major road (4 lanes or more)	YES	NO X	
Airport	YES	NO X	
Harbour	YES	NO X	
Sport facilities	YES	NO X	
Golf course	YES	NO X	
Polo fields	YES	NO X	
Filling station	YES	NO X	
Landfill or waste treatment site	YES	NO X	
Plantation	YES	NO X	
Agriculture	YES X	NO	All the land to the south consist of old agricultural fields.
River, stream or wetland	YES X	NO	The Blood River is located 400m south of the proposed site.
Nature conservation area	YES	NO X	
Mountain, hill or ridge	YES	NO X	
Museum	YES	NO X	
Historical building	YES	NO X	
Protected Area	YES	NO X	

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Graveyard	YES	NO X	
Archaeological site	YES	NO X	
Other land uses (describe)	YES	NO X	

6. CULTURAL/ HISTORICAL FEATURES

<p>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 palaeontological sites, on or within 20m of the site?</p>	<p>YES</p>	<p>NO √</p>
<p>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.</p>		
<p>Briefly explain the recommendations of the specialist:</p>	<p>N/A</p>	
<p>Will any building or structure older than 60 years be affected in any way?</p>	<p>YES</p>	<p>NO √</p>
<p>Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?</p>	<p>YES</p>	<p>NO √</p>
<p>If YES, please submit the necessary application to AMAFA and attach proof thereof to this report.</p>		

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 subregulation 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, 2014;(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 chapter 6 regulation 41 of the EIA Regulations, 2014, but may deviate from the requirements of subregulation 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 (in the EIA Regulations, 2014) 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
	X

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

--

Has any comment been received from the local municipality?

YES	NO
	X

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

--

Has any comment been received from a traditional authority?

YES	NO
	X

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

--

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
	X

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

--

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.

No issues was raised during the public participation period.

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):

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

Activity	Impact summary	Significance	Proposed mitigation
Alternative A 1 (preferred alternative)			
	Direct impacts:		
	Positive impacts	High	None
	Air quality and disturbance	Low	Dust control by means of watering if necessary. Vehicles to be regularly serviced and well-tuned. Operations to be undertaken during working hours only.
	Surface and groundwater pollution	Low	Machinery should be properly maintained at all times. Servicing of machinery should take place only in specific demarcated and protected areas. Measures should be taken for the proper disposal of oils, grease, oil filters, rags, etc.
	Sewage and domestic waste	Low	Proper ablution facilities should be provided i.e. chemical toilets at appropriate locations on site if necessary or existing facilities must be used. Workers should be made aware of the risk of soil water contamination. Domestic waste

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Activity	Impact summary	Significance	Proposed mitigation
			should be disposed of in appropriate containers, and removed to the Newcastle municipal waste-disposal site as part of existing waste management system.
	Soil compaction, loss of fertility and increased erosion	Low	Appropriate measures should be taken to reduce the risk of erosion from unprotected slopes i.e. Diversion berms, ponding pools, and not exceeding angles of repose of stockpiled material. All unprotected slopes should be Rehabilitated concurrent with construction.
	Fires	Low	Cooking and heating fires permitted only in designated areas with appropriate safety measures. Adequate firefighting equipment should be available, as prescribed by the relevant safety standards and legislation.
	Disturbance of fauna	Low	Only small animals occur in this area e.g. small rodents and reptiles. The area is surrounded by similar habitat and fauna is expected to move voluntarily to surrounding areas. No fauna found on the site will be killed
	Safety	Low	Access to the construction site to be controlled at all times.
	Aesthetics	Low	If needed, an additional line of trees will be planted to minimise visual impact.
	Indirect impacts: None		
	Cumulative impacts: None		
Operational Phase			
	Manure	Low	All of the manure is removed after each cycle and used on the same

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Activity	Impact summary	Significance	Proposed mitigation
			farm as fertiliser.
	Carcasses	Low	The carcasses are removed on a daily basis and disposed off at a mortality pit.
	Indirect impacts: None		
	Cumulative impacts: None		

Activity	Impact summary	Significance	Proposed mitigation
Alternative A 2			
	Direct impacts:		
	Positive impacts	High	None
	Air quality and disturbance	Low	Dust control by means of watering if necessary. Vehicles to be regularly serviced and well-tuned. Operations to be undertaken during working hours only.
	Surface and groundwater pollution	Low	Machinery should be properly maintained at all times. Servicing of machinery should take place only in specific demarcated and protected areas. Measures should be taken for the proper disposal of oils, grease, oil filters, rags, etc.
	Sewage and domestic waste	Low	Proper ablution facilities should be provided i.e. chemical toilets at appropriate locations on site if necessary or existing facilities must be used. Workers should be made aware of the risk of soil water contamination. Domestic waste should be disposed of in appropriate containers, and removed to the Newcastle municipal waste-disposal site as part of existing waste management system.
	Soil compaction, loss of fertility	Low	Appropriate measures should be taken to reduce the risk of erosion from unprotected slopes i.e.

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Activity	Impact summary	Significance	Proposed mitigation
	and increased erosion		Diversion berms, ponding pools, and not exceeding angles of repose of stockpiled material. All unprotected slopes should be Rehabilitated concurrent with construction.
	Fires	Low	Cooking and heating fires permitted only in designated areas with appropriate safety measures. Adequate firefighting equipment should be available, as prescribed by the relevant safety standards and legislation.
	Disturbance of fauna	Low	Only small animals occur in this area e.g. small rodents and reptiles. The area is surrounded by similar habitat and fauna is expected to move voluntarily to surrounding areas. No fauna found on the site will be killed
	Safety	Low	Access to the construction site to be controlled at all times.
	Aesthetics	Low	If needed, an additional line of trees will be planted to minimise visual impact.
	Indirect impacts: None		
	Cumulative impacts: None		
Operational Phase			
	Manure	Low	All of the manure is removed after each cycle and used on the same farm as fertiliser.
	Carcasses	Low	The carcasses are removed on a daily basis and disposed off at a mortality pit.
	Indirect impacts: None		
	Cumulative impacts: None		

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Alternative: S 1		
	Direct impacts:	
	Positive impacts	High None
	Air quality and disturbance	Low Dust control by means of watering if necessary. Vehicles to be regularly serviced and well-tuned. Operations to be undertaken during working hours only.
	Surface and groundwater pollution	Low Machinery should be properly maintained at all times. Servicing of machinery should take place only in specific demarcated and of oils, grease, oil filters, rags, etc.
	Sewage and domestic waste	Low Proper ablution facilities should be provided i.e. chemical toilets at appropriate locations on site if necessary or existing facilities must be used. Workers should be made aware of the risk of soil water contamination. Domestic waste should be disposed of in appropriate containers, and removed to the Newcastle municipal waste-disposal site as part of existing waste management system.
	Soil compaction, loss of fertility and increased erosion	Low Appropriate measures should be taken to reduce the risk of erosion from unprotected slopes i.e. diversion berms, ponding pools, and not exceeding angles of repose of stockpiled material. All unprotected slopes should be rehabilitated concurrent with construction.
	Fires	Low Cooking and heating fires permitted only in designated areas with appropriate safety measures. Adequate firefighting equipment should be available, as prescribed by the relevant safety standards and

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			legislation.
	Disturbance of fauna	Low	Only small animals occur in this area e.g. small rodents and reptiles. The area is surrounded by similar habitat and fauna is expected to move voluntarily to surrounding areas. No fauna found on the site will be killed
	Safety	Low	Access to the construction site to be controlled at all times.
	Aesthetics	Low	If needed, an additional line of trees will be planted to minimise visual impact.
	Manure	Low	Manure will be removed on a regular basis and used on old agricultural land
	Carcasses	Low	The carcasses are removed on a daily basis and disposed of at a mortality pit.
	Indirect impacts: None		
	Cumulative impacts: None		

No-go option			
	Direct impacts:		
	Positive impacts	Low	None
	Air quality and disturbance	Low	None
	Surface and groundwater pollution	Low	None
	Sewage and domestic waste	Low	None
	Soil compaction, loss of fertility and increased erosion	Low	None
	Fires	Low	None
	Disturbance of fauna	Low	None
	Safety	Low	None
	Aesthetics	Low	None
	Manure	Low	None
	Carcasses	Low	None
	Indirect impacts: None		
	Cumulative impacts: None		

3. 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)

Mr. Barry Watson, foreman of the poultry farm and a representative of Eggbert (Pty) Ltd is responsible for implementation of the mitigation measures and will allocate tasks to individuals. Appropriate mechanisms as outlined in the proposed mitigation measures will become a part of standard operating procedures of the farm. The management steps will be implemented on an ongoing basis. Compliance monitoring will take place by means of regular environmental audits. Auditing will take place according to the following guidelines

CONSTRUCTION PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

OPERATIONAL PHASE

Internal auditing to be conducted every three months.

External auditing to be conducted every six months.

DECOMMISSIONING PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

Alternative A1 (preferred alternative)

Mr. Barry Watson, foreman of the poultry farm and a representative of Eggbert (Pty) Ltd is responsible for implementation of the mitigation measures and will allocate tasks to individuals. Appropriate mechanisms as outlined in the proposed mitigation measures will become a part of standard operating procedures of the farm. The management steps will be implemented on an ongoing basis. Compliance monitoring will take place by means of regular environmental audits. Auditing will take place according to the following guidelines:

CONSTRUCTION PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

OPERATIONAL PHASE

Internal auditing to be conducted every three months.

External auditing to be conducted every six months.

DECOMMISSIONING PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

Alternative A2

Mr. Barry Watson, foreman of the poultry farm and a representative of Eggbert (Pty) Ltd is responsible for implementation of the mitigation measures and will allocate tasks to individuals. Appropriate mechanisms as outlined in the proposed mitigation measures will become a part of standard operating procedures of the farm. The management steps will be implemented on an ongoing basis. Compliance monitoring will take place by means of regular environmental audits. Auditing will take place according to the following guidelines:

CONSTRUCTION PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

OPERATIONAL PHASE

Internal auditing to be conducted every three months.

External auditing to be conducted every six months.

DECOMMISSIONING PHASE

Internal auditing to be conducted every two weeks.

External auditing to be conducted every two months.

4. 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 alternative)

Impact no: (As described in paragraphs 3 and 4 above)	Extent	Duration	Intensity	Probability	Significance	
	Site Regional National	Short Medium Long	Low Medium High	Improbable Probable Definite	Low Medium High	
					Unmitigated	Mitigated
CONSTRUCTION PHASE						
1. Positive impacts	Site and Regional	Short	Low	Definite	High	High
2. Air quality and disturbance	Site	Short	Medium	Definite	Medium	Low
3. Surface and ground water	Site	Short	Low	Improbable	Low	Low
4. Uncontrolled sewage and domestic waste	Site	Short	High	Improbable	High	Low
5. Soil compaction, loss of fertility and increased erosion	Site	Long	Medium	Probable	High	Low
6. Fires	Site and Regional	Short	High	Improbable	High	Low
7. Disturbance of fauna	Site	Long	High	Definite	Low	Low
8. Safety	Site	Short	High	Probable	High	Low
9. Aesthetics	Site and Regional	Long	Low	Definite	Low	Low
OPERATIONAL PHASE						
1. Sewage, waste and litter	Site	Long	High	Definite	High	Low

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2. Chicken manure	Site	Long	High	Definite	High	Low
3. Wash water and possible pollution of water	Site and Regional	Long	High	Improbable	High	Low
4. Carcasses	Site	Long	High	Definite	High	Low
5. Air pollution	Site and Regional	Long	Medium	Improbable	Medium	Low
6. Positive impacts	Site and Regional	Long	Medium	Definite	High	High

Alternative A 1 (preferred alternative)

Impact no: (As described in paragraphs 3 and 4 above)	Extent	Duration	Intensity	Probability	Significance	
	Site Regional National	Short Medium Long	Low Medium High	Improbable Probable Definite	Low Medium High	
					Unmitigated	Mitigated
CONSTRUCTION PHASE						
1. Positive impacts	Site and Regional	Short	Low	Definite	High	High
2. Air quality and disturbance	Site	Short	Medium	Definite	Medium	Low
3. Surface and ground water	Site	Short	Low	Improbable	Low	Low
4. Uncontrolled sewage and domestic waste	Site	Short	High	Improbable	High	Low
5. Soil compaction, loss of fertility and increased erosion	Site	Long	Medium	Probable	High	Low
6. Fires	Site and Regional	Short	High	Improbable	High	Low
7. Disturbance of fauna	Site	Long	High	Definite	Low	Low
8. Safety	Site	Short	High	Probable	High	Low
9. Aesthetics	Site and Regional	Long	Low	Definite	Low	Low
OPERATIONAL PHASE						
1. Sewage, waste and litter	Site	Long	High	Definite	High	Low
2. Chicken manure	Site	Long	High	Definite	High	Low
3. Wash water and possible pollution of water	Site and Regional	Long	High	Improbable	High	Low

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4. Carcasses	Site	Long	High	Definite	High	Low
5. Air pollution	Site and Regional	Long	Medium	Improbable	Medium	Low
6. Positive impacts	Site and Regional	Long	Medium	Definite	High	High

Alternative A2

Impact no: (As described in paragraphs 3 and 4 above)	Extent	Duration	Intensity	Probability	Significance	
	Site Regional National	Short Medium Long	Low Medium High	Improbable Probable Definite	Low Medium High	
	Unmitigated		Mitigated			
CONSTRUCTION PHASE						
1. Positive impacts	Site and Regional	Short	Low	Definite	High	High
2. Air quality and disturbance	Site	Short	Medium	Definite	Medium	Low
3. Surface and ground water	Site	Short	Low	Improbable	Low	Low
4. Uncontrolled sewage and domestic waste	Site	Short	High	Improbable	High	Low
5. Soil compaction, loss of fertility and increased erosion	Site	Long	Medium	Probable	High	Low
6. Fires	Site and Regional	Short	High	Improbable	High	Low
7. Disturbance of fauna	Site	Long	High	Definite	Low	Low
8. Safety	Site	Short	High	Probable	High	Low
9. Aesthetics	Site and Regional	Long	Low	Definite	Low	Low
OPERATIONAL PHASE						
1. Sewage, waste and litter	Site	Long	High	Definite	High	Low
2. Chicken manure	Site	Long	High	Definite	High	Low
3. Wash water and possible pollution of water	Site and Regional	Long	High	Improbable	High	Low
4. Carcasses	Site	Long	High	Definite	High	Low
5. Air pollution	Site and Regional	Long	Medium	Improbable	Medium	Low
6. Positive impacts	Site and Regional	Long	Medium	Definite	High	High

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No-go alternative (compulsory)						
Impact no: (As described in paragraphs 3 and 4 above)	Extent	Duration	Intensity	Probability	Significance	
	Site Regional National	Short Medium Long	Low Medium High	Improbable Probable Definite	Low Medium High	
					Unmitigated	Mitigated
CONSTRUCTION PHASE						
1. Positive impacts	Site	Short	Low	Improbable	High	High
2. Air quality and disturbance	Site	Short	Medium	Definite	Medium	Medium
3. Surface and ground water	Site	Short	Low	Improbable	Low	Low
4. Uncontrolled sewage and domestic waste	Site	Short	High	Improbable	Low	Low
5. Soil compaction, loss of fertility and increased erosion	Site	Medium	Medium	Definite	Low	Low
6. Fires	Site and Regional	Short	High	Improbable	High	Low
7. Disturbance of fauna	Short	Long	High	Definite	Low	Low
8. Safety	Site	Short	High	Improbable	Low	Low
9. Aesthetics	Site and Regional	Short	Low	Definite	Low	Low
OPERATIONAL PHASE						
1. Sewage, waste and litter	Site	Long	High	Improbable	Low	Low
2. Chicken manure	Site	N/A	High	Improbable	High	Low
3. Wash water and possible pollution of water	Site and Regional	N/A	High	Improbable	High	Low
4. Carcasses	Site	N/A	High	Improbable	High	Low
5. Air pollution	Site and Regional	Short	Medium	Definite	Medium	Medium
6. Positive impacts	Site and Regional	Long	Medium	Improbable	High	High

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?

YES X	NO

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

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:

Mitigation and management measures as described in Section E should be considered for inclusion in any authorisation that may be granted.

SECTION G: 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: Draft Environmental Management Programme (EMPr) ✓

Appendix G: Other information ✓