

Client

SLJ van Rensburg

ProjectExpansion of SLJ van Rensburg Broiler FacilitiesEnvironmental Management Programme

Date September 2019





SLJ van Rensburg – Expansion of SLJ van Rensburg Broiler Facilities

Environmental Management Programme (EMPr)

EIA Ref No. To be confirmed upon submission of the Application to the Competent Authority



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REFERENCES

Constitution of South Africa, 1996. Act No. 108 of 1996

Environmental Impact Assessment Regulations, 2014. GN 982 of 4 December 2014

Lekwa Local Municipality - Five Year Integrated Development Plan 2012-2016 IDP

Lekwa Local Municipality - Integrated Development Plan for 2018/2019

Lekwa Local Municipality - Integrated Development Plan for 2016/2017

Lekwa Local Municipality – Integrated Development Plan for 2015/2016 5th IDP edition

Lekwa Local Municipality. 2015. Nuisance Management By-Laws, 2015.

Mpumalanga Biodiversity Sector Plan, 2014.

National Environmental Management Act, 1998. Act No. 107 of 1998.

National Environmental Management: Biodiversity Act, 2004. Act No. 10 of 2004.

National Environmental Management: Waste Act, 2008. Act No. 59 of 2008.

National Heritage Resources Act, 1999. Act No. 25 of 1999.

National Water Act, 1998. Act No. 36 of 1998.

Norms and Standards for the Storage of Waste, 2013. GN 926 of 29 November 2013.

SANBI Biodiversity GIS Database



DEFINITIONS

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 the-

- a) property on which or location where the activity is proposed to be undertaken;
- b) type of activity to be undertaken;
- c) design or layout of the activity;
- d) technology to be used in the activity; or
- e) operational aspects of the activity;

and includes the option of not implementing the activity.

Application

An application for an Environmental Authorisation (EA).

Basic Assessment Report

A report contemplated in regulation 21 of the EIA Regulations, 2014.

Buffer Area

Unless specifically defined, means an area extending 10 kilometres from the proclaimed boundary of a world heritage site or national park and 5 kilometres from the proclaimed boundary of a nature reserve, respectively, or that defined as such for a biosphere.

Cumulative Impact

In relation to an activity, means the past, current and reasonably foreseeable future impact of an activity, considered together with the impact of activities associated with that activity, that in itself may not be significant, but may become significant when added to the existing and reasonably foreseeable impacts eventuating from similar or diverse activities.

Dangerous Good

Goods containing any of the substances as contemplated in South African National Standard No. 10234, supplement 2008 1.00: designated "List of classification and labelling of chemicals in accordance with the Globally Harmonized Systems (GHS)" published by Standards South Africa, and where the presence of such goods, regardless of quantity, in a blend or mixture, causes such blend or mixture to have one or more of the characteristics listed in the Hazard Statements in section 4.2.3, namely physical hazards, health hazards or environmental hazards.

Development

The building, erection, construction or establishment of a facility, structure or infrastructure, including associated earthworks or borrow pits, that is necessary for the undertaking of a listed or specified activity, including any associated post development monitoring, but excludes any modification, alteration or expansion of such a facility, structure or infrastructure, including associated earthworks or borrow pits, and excluding the redevelopment of the same facility in the same location, with the same capacity and footprint.

Development footprint

Any evidence of physical alteration as a result of the undertaking of any activity.

EAP

An environmental assessment practitioner as defined in section 1 of NEMA.



EMPr

An environmental management programme contemplated in regulations 19 and 23 of the EIA Regulations, 2014.

Environment

The surroundings (biophysical, social and economic) within which humans exist and that are made up of:

- (i) the land, water and atmosphere of the earth;
- (ii) micro-organisms, plant and animal life;
- (iii) any part or combination of (i) and (ii) and the interrelationships among and between them; and
- (iv) the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and wellbeing.

Environmental Impact

Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organization's activities, products or services.

Environmental Impact Assessment

A systematic process of identifying, assessing and reporting environmental impacts associated with an activity and includes Basic Assessment and Scoping and Environmental Impact Reporting.

Independent

In relation to an EAP, a specialist or the person responsible for the preparation of an environmental audit report, means-

- a) that such EAP, specialist or person has no business, financial, personal or other interest in the activity or application in respect of which that EAP, specialist or person is appointed in terms of the EIA Regulations; or
- b) that there are no circumstances that may compromise the objectivity of that EAP, specialist or person in performing such work;

excluding -

- (i) normal remuneration for a specialist permanently employed by the EAP; or
- (ii) fair remuneration for work performed in connection with that activity, application or environmental audit.

Indigenous Vegetation

Vegetation consisting of indigenous plant species occurring naturally in an area, regardless of the level of alien infestation and where the topsoil has not been lawfully disturbed during the preceding ten years.

Industrial Complex

An area used or zoned for industrial purposes, including bulk storage, manufacturing, processing or packaging purposes.

Land Use

The various ways in which land may be employed or occupied. Planners compile, classify, study and analyse land use data for many purposes, including the identification of trends, the forecasting of space and infrastructure requirements, the provision of adequate land area for necessary types of land use, and the development or revision of comprehensive plans and land use regulations.

Mitigation

To anticipate and prevent negative impacts and risks, then to minimise them, rehabilitate or repair impacts to the extent feasible.

Phased Activities

An activity that is developed in phases over time on the same or adjacent properties to create a single or linked entity.



Pollution Prevention

Any activity that reduces or eliminates pollutants prior to recycling, treatment, control or disposal.

Public Participation Process

A process of involving the public in order to identify needs, address concerns, to contribute to more informed decision making relating to a proposed project, programme or development.

Registered Interested and Affected Party

In relation to an application, means an Interested and Affected Party whose name is recorded in the register opened for that application in terms of regulation 42 of the EIA Regulations, 2014.

Significant Impact

An impact that may have a notable effect on one or more aspects of the environment or may result in non-compliance with accepted environmental quality standards, thresholds or targets and is determined through rating the positive and negative effects of an impact on the environment based on criteria such as duration, magnitude, intensity and probability of occurrence.

Specialist

A person that is generally recognised within the scientific community as having the capability of undertaking, in conformance with generally recognised scientific principles, specialist studies or preparing specialist reports, including due diligence studies and socio-economic studies.

Systematic Biodiversity Plan

A plan that identifies important areas for biodiversity conservation, taking into account biodiversity patterns (i.e. the principle of representation) and the ecological and evolutionary processes that sustain them (i.e. the principle of persistence). A systematic biodiversity plan must set quantitative targets/thresholds for aquatic and terrestrial biodiversity features in order to conserve a representative sample of biodiversity pattern and ecological processes.

Topography

Topography, a term in geography, refers to the "lay of the land" or the physio-geographic characteristics of land in terms of elevation, slope and orientation.

Vegetation

All of the plant life growing in and characterizing a specific area or region; the combination of different plant communities found there.

Waste

Waste is unwanted or undesired material left over after the completion of a process. "Waste" is a human concept: in natural processes there is no waste, only inert end products.

Watercourse

- (a) a river or spring;
- (b) a natural channel in which water flows regularly or intermittently;
- (c) a wetland, pan, lake or dam into which, or from which, water flows; and

any collection of water which the Minister may, by notice in the Gazette, declare to be a watercourse as defined in the National Water Act, 1998 (Act No. 36 of 1998); and

a reference to a watercourse includes, where relevant, its bed and banks.



Wetland

Land which is transitional between terrestrial and aquatic systems where the water table is usually at or near the surface, or the land is periodically covered with shallow water, and which land in normal circumstances supports or would support vegetation typically adapted to life in saturated soil.

ABBREVIATIONS

BAR	-	Basic Assessment Report			
BID	-	Background Information Document			
CRR	-	Comments and Response Report			
DWA	-	Department of Water Affairs			
DWS	-	Department of Water and Sanitation			
EA	-	Environmental Authorisation			
EAP	-	Environmental Assessment Practitioner			
ECA	-	Environmental Conservation Act of 1989			
EIA	-	Environmental Impact Assessment			
EIR	-	Environmental Impact Report			
EMF	-	Environmental Management Framework			
EMP	-	Environmental Management Programme			
GN	-	Government Notice			
I&AP	-	Interested and Affected Party			
IWULA	-	Integrated Water Use Licence Application			
MDARDLEA	-	Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs			
MPDEDET	-	Mpumalanga Department of Economic Development, Environment and Tourism, Mpumalanga			
NEMA	-	National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended			
NEM:WA	-	National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), as amended			
NHRA	-	National Heritage Resources Act, 1999 (Act No. 25 of 1999), as amended			
R	-	Regulation			
SAHRA	-	South African Heritage Resources Agency			



1. PROJECT TITLE

Expansion of the SLJ van Rensburg Broiler Facilities

2. APPLICANT DETAILS

Applicant Name	SLJ van Rensburg
Contact Person	Mr Tollie Janse van Rensburg
Postal Address	PO Box 1200, Standerton 2430
Telephone Number	017 712 4655
Fax Number	
Email Address	tollie@stefmar.co.za

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER DETAILS

Environmental Assessment Practitioner Company	Labesh (Pty) Ltd
Contact Person	Lourens de Villiers
Postal Address	Postnet Box 469, Private Bag X504, Sinoville, 0129
Telephone Number	082 789 6525
Fax Number	
Email Address	info@labesh.co.za
Qualifications	B.Sc Earth Science (North West University)
	Hons B.Sc Geography and Environmental Studies (North
	West University)
	M.Sc Water Resource Management (University of
	Pretoria)
Relevant experience	14 years' experience conducting Environmental Impact
	Assessment processes

The EAP's full Curriculum Vitae is attached to the Basic Assessment Report under Appendix E.

4. LOCATION OF THE PROPOSED DEVELOPMENT AND ACTIVITIES

The property for the proposed development and its associated activities is as follows:

Property/Land Parcel	21 digit Surveyor General Code
Portion 6 of the Farm Rondavel 403 IS	T0IS0000000040300006

Kindly take note that the proposed development will only take place on a portion of the above mentioned property and not the entire farm portion.

The project location is on the Western side of Standerton, in the Lekwa Local Municipality of the Gert Sibande District Municipality, Mpumalanga Province. The GPS coordinates for the project site are as follows:

26°57'49.63"S; 29°1'50.01"E



A locality map, provided on the next page (*Figure 1: Site locality map*), shows the location of the project property, at an appropriate scale.





Figure 1: Site locality map



The following photographs give an indication of the current status of the project property.





5. DESCRIPTION OF THE ASPECTS OF THE ACTIVITY THAT ARE COVERED BY THE EMPr AS IDENTIFIED BY THE PROJECT DESCRIPTION

5.1 Description of the activities to be undertaken

The farm Rondavel is owned by Stephanus Lourens Janse van Rensburg. Chickens are raised on the farm and the farm's extent is 433 ha.

The project site is Portion 6 of the farm Rondavel 403 IS, Mpumalanga. The SLJ van Rensburg Broiler Facilities are currently operational at the project site.

Existing buildings on site

The following infrastructure is currently present at the project site:

- 8 x Poultry Broiler Houses (each with a surface area of 1296m² (108m x 12m)); and
- Existing Office and Residential Buildings.

Proposed project

The proposed project will entail the expansion of the SLJ van Rensburg Broiler Facilities, through the following:

• The construction and operation of four (4) new poultry broiler houses.

The new broiler houses will be built to the same specifications and operated in the same way as the existing houses. Each new broiler house, with dimension of 108m X 12m, will have the capacity to house 25 500 chickens. The expansion will add 102 000 chickens to the current production capacity of the farm. The farm will have a combined capacity of 306 000 after expansion.

The project property is 433 hectares in total. The additional developmental footprint will be approximately 0.5184 hectares. (should the development be approved).

5.1.1 Roads and Storm Water

Access

Access to the proposed filling station will be gained from existing site entrance on the western side of the facility.

Surface Drainage/ Storm Water Routing

Appropriate storm water management measures will be implemented to ensure that clean and dirty water is separated and to ensure that storm water runoff is channelled offsite into existing storm water conveyance infrastructure.

5.1.2 Water Services

The existing borehole water supply to the broiler houses will continue to be utilised.

5.1.3 Sewerage

The sewerage system will be connected to the existing French drain system.

5.1.4 Electricity

The existing electricity supply to the broiler houses will continue to be utilised.



5.1.5 Traffic

Traffic linked to the SLJ van Rensburg Broiler Facilities will remain the same after the proposed development (should the development be authorised). In other words, there will be no increase in traffic during the operational phase of the proposed development.





Figure 2: Facility illustration for the proposed expansion project

5.2 Listed Activities triggered by the proposed development

The following listed activities are triggered by the proposed development and therefore require Environmental Authorisation, in terms of the Environmental Impact Assessment Regulations of 4 December 2014, as amended:

Table T. Listeu activity/	activities triggered by the proposed development	
Government	Wording as per the Listing Notice	Description as per the project
Notice and		description relating to each listed
Activity Number		activity
G	overnment Notice R983 of 4 December 2014, as amer	nded (Listing Notice 1)
Government Notice R983 (Listing Notice 1) Activity No. 40	The expansion and related operation of facilities for the concentration of poultry, excluding chicks younger than 20 days, where the capacity of the facility will be increased by- (i) more than 1000 poultry where the facility is situated within an urban area; or (ii) more than 5000 poultry per facility situated outside an urban area.	The construction and operation of four (4) new poultry broiler houses.

Table 1: Listed activity/activities triggered by the proposed development

5.3 Water Use Licence Activities

No water use activities are anticipated that will require Water Use Registration and/or Licence applications in terms of Chapter 4 of the National Water Act, 1998 (Act No. 36 of 1998).

5.4 Environmental sensitivity overlay map – Map at an appropriate scale that superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that should be avoided, including buffers.

Please refer to *Figure 3* below. The site is located within a 'Heavily Modified' area. The area is classified as of 'Least Concern' with 'No Natural Habitat Remaining' in terms of the Mpumalanga Terrestrial Critical Biodiversity Areas (refer to *Figure 4*)





Figure 3: Layout plan and sensitivity overlay map





6. POLICY AND LEGISLATIVE CONTEXT OF THE APPLICATION

The following legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks and instruments are applicable to the proposed development and have been considered in this Basic Environmental Impact Assessment process. The mitigation measures proposed in this Environmental Management Programme are also aligned with the provisions of the relevant sections of legislation.

Legislation

- The Constitution of South Africa, 1996 (Act No. 108 of 1996), as amended
- The National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended
- The Environmental Impact Assessment Regulations of 4 December 2014, as amended
- The National Heritage Resources Act, 1999 (Act No. 25 of 1999), as amended
- The National Appeal Regulations Government Notice No. R.993 of 8 December 2014
- Promotion of Access to Information Act, 2000 (Act No 2 of 2000 as amended)
- The National Water Act, 1998 (Act No. 36 of 1998), as amended
- The National Environmental Management: Waste Act (Act No. 59 of 2008)
- The National Environmental Management: Air Quality (Act No. 39 of 2004)
- The Environment Conservation Act, 1989 (Act No. 73 of 1989)

Plans

• Mpumalanga Biodiversity Sector Plan, 2014

Guidelines

- Guideline on Need and Desirability in terms of the Environmental Impact Assessment (EIA) Regulations, 2010
- Guideline on Public Participation in the Environmental Impact Assessment Process, 2012

Spatial tools

SANBI Biodiversity GIS Database

Provincial development planning frameworks

• Mpumalanga Spatial Development Framework

Municipal development planning frameworks

- Lekwa Local Municipality Integrated Development Plan for 2018/2019
- Lekwa Local Municipality Integrated Development Plan for 2016/2017
- Lekwa Local Municipality Integrated Development Plan for 2015/2016 5th IDP edition
- Lekwa Local Municipality Five-Year Integrated Development Plan 2012-2016 IDP

Municipal By-Laws

- Lekwa Spatial Planning and Land Use Management By-law, 2016
- Lekwa Local Municipality Water Supply By-Law,
- Lekwa Local Municipality Electricity By- Laws,
- Lekwa Local Municipality Draft Stormwater Management By-Laws, 2015

7. DESCRIPTION OF IMPACT MANAGEMENT OUTCOMES, MANAGEMENT STATEMENTS AND IMPACTS AND RISKS THAT NEED TO BE AVOIDED, MANAGED AND/OR MITIGATED

7.1 Impact Management Outcomes

Please refer to *Table 3* under Section 8 below.

7.2 Impact Management Statements

The applicant, SLJ van Rensburg, commits to implementing the mitigation actions contained in this Environmental Management Programme in order to ensure that the environmental impacts from their filling station are minimised.

7.3 Impacts and risks that need to be avoided, managed and/or mitigated

The following impacts and risks have been identified for the preferred alternative and need to be avoided, managed and/or mitigated:

Impact	Phase	Risks
Pre-construction Phase	Pre-construction phase	 Unauthorised access to the construction site that can pose a risk to the public in terms of their safety. Unsafe working conditions. Workers being unaware of the dangers of working at the construction site, resulting in a risk to their safety.
Surface and Groundwater	Planning and Design Phase	 Inadequate planning or faulty designs may lead to surface and groundwater pollution.
		 Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from construction vehicles.
		• Pollution of surface and/or groundwater resources due to spillages from chemical toilets.
	Construction	• Pollution of surface and/or groundwater resources due to the incorrect management, storage and disposal of construction waste.
	Phase	• Pollution of surface and/or groundwater resources due to the runoff of contaminated stormwater.
		 Pollution of surface and/or groundwater resources from the mixing of concrete.
		• The wastage of water resources (municipal/borehole water supply) due to the irresponsible use of water.
		 Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from vehicles.
	Operational Phase	 Pollution of surface and/or groundwater resources due to the incorrect management, storage and disposal of waste.
		• Pollution of surface and/or groundwater resources due to the runoff of contaminated stormwater.

Table 2: Impacts and Risks Identified for the Preferred Alternative

Impact	Phase	Risks
		 Pollution of surface and/or groundwater resources due to leakages from the sewerage network (pipelines) onsite. The wastage of resources due to the irresponsible use of water and electricity.
	Post-construction and Rehabilitation Phase	 Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from construction vehicles.
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
Fauna	Construction Phase	 Loss of habitat. Habitat fragmentation. Disturbance of any fauna species that may be resident onsite.
	Operational Phase	 Disturbance of any fauna species that may be resident onsite. Habitat fragmentation. Provision of artificial habitat for fauna species.
	Post-construction and Rehabilitation Phase	 Disturbance of any fauna species that may be present onsite.
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
Flora	Construction Phase	 Loss of degraded/disturbed vegetation (Soweto Highveld grassland) during site clearance. Establishment and spread of alien invasive vegetation. Risk of veld fires.
	Operational Phase	 Establishment and spread of alien invasive vegetation (onsite and surrounding areas). Risk of veld fires.
	Post-construction and rehabilitation phase	 Establishment and spread of alien invasive vegetation (onsite and further than the site).
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
Heritage Resources	Construction Phase Operational Phase	Possible disturbance or destruction of cultural and heritage resources.

Impact	Phase	Risks
	Post-construction and	
	Rehabilitation	
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of
		this Environmental Impact Assessment process.
	Phase	Ine site is located in an area with both very high and high palaeontological sensitivity. The possibility exists that significant fossil
	Operational Phase	assemblages may be present beneath the site. The disturbance and/o destruction of the fossil assemblages.
Palaeontological Resources	Post-construction and Rehabilitation Phase	
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
Air Quality and Noise	Construction Phase	 Generation of dust by construction vehicles. Release of emissions from construction vehicles. Generation of nuisance and noise from construction vehicles and equipment/machinery.
	Operational Phase	 Generation of dust by excavation and vehicles onsite. Release of emissions from vehicles. Generation of nuisance and noise from vehicles, excavation and maintenance activities. Generation of emissions from the heating of broiler facilities.
	Post-construction and Rehabilitation Phase	 Generation of dust by construction vehicles. Release of emissions from construction vehicles. Generation of nuisance and noise from construction vehicles and equipment/machinery.
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
Soil	Planning and Design Phase	 Inadequate planning or faulty designs may lead to soil pollution and may cause soil instability and disturbances.
	Construction Phase	 Soil pollution due to hydrocarbon spillages or leakages from construction vehicles. Soil pollution due to spillages from chemical toilets. Soil pollution due to the incorrect management, storage and disposal of waste (general and hazardous waste).

Impact	Phase	Risks
Impact	Phase Operational Phase Post-construction and	 Risks Soil pollution of surface and/or groundwater resources from the mixing of concrete. Soil erosion due to the clearance of vegetation and the removal of topsoil and subsoil. Soil compaction to create foundations for buildings and other associated infrastructure. Degradation of topsoil due to incorrect storage practices. Soil pollution due to hydrocarbon spillages or leakages from vehicles. Soil pollution due to leakages from the sewerage network (pipelines) onsite. Soil instability. Soil pollution due to hydrocarbon spillages or leakages from vehicles.
	Rehabilitation Phase	 Soil erosion due to inefficient rehabilitation of construction areas. Soil erosion due to inefficient rehabilitation of construction areas.
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
Socio-economic	Construction Phase	 Generation of a number of job opportunities. Potential increase in crime due to the influx of workers. Stimulation of the local economy.
	Operational Phase	Generation of a number of job opportunities.Stimulation of the local economy.
	Post-construction and Rehabilitation Phase	Generation of a number of job opportunities.Stimulation of the local economy.
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
	Construction	
Traffic	Construction Phase Operational Phase Post-construction and Rehabilitation	 Increase in traffic volumes to the site.
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the broiler facilities. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.

Impact	Phase	Risks
	Construction	
	Phase	• Increased risk of fire due to construction/operational activities and
	Operational	increased human activity.
	Phase	
Fire Dick	Post-construction	None anticipated
FILE KISK	and	
	Rehabilitation	
	Decommissioning	No decommissioning activities are anticipated or planned for the broiler
	Phase	facilities. Therefore, no impacts have been identified or assessed as part of
		this Environmental Impact Assessment process.
	Construction	
	Phase	
	Operational	• The outbreak of poultry diseases among chickens, other avian species
	Phase	and humans.
Diseases	Post-construction	
	and	
	Rehabilitation	
	Decommissioning	No decommissioning activities are anticipated or planned for the broiler
	Phase	facilities. Therefore, no impacts have been identified or assessed as part of
		this Environmental Impact Assessment process.

8. DESCRIPTION OF PROPOSED IMPACT MANAGEMENT ACTIONS (ENVIRONMENTAL MANAGEMENT PROGRAMME ACTIONS)

8.1 Impact Management Outcome and Action Table

Please refer to Table 3 below.



Table 3: Environmental Management Programme – Impact Management Outcome and Action Table

Aspect	Impact and Nature	Impact Management Outcomes	Impact Management Actions and Statements in order to avoid, modify, remedy, control or stop pollution or environmental degradation	Responsible party/ person(s)
Planning and Design	Phase			
Planning and Design Pr	lase	To offectively plan for and design	Site coloction	Applicant
the broiler facilities.	design of the broiler houses that could result in environmental impacts that could have been avoided.	the broiler houses to avoid or minimise environmental impacts.	 The infrastructure should preferably be constructed on an already disturbed site. The infrastructure may not be constructed on a wetland or within a drainage line. The infrastructure must preferably be constructed on a level/flat site. The site must have the correct land use zoning to enable the infrastructure to be constructed and operated. Design of the broiler houses Impermeable foundations (such as concrete foundations) must be designed for the broiler houses. An adequate number of fire extinguishers must be provided for. 	Applicant Engineer
Pre-Construction Pha	Se			
Pre-Construction Phase)			
Construction site establishment.	Unauthorised access to the construction site that can pose a risk to the public in terms of their safety. Unsafe working conditions.	To secure the construction site and ensure that it is operated in a responsible manner for the duration of the construction phase.	 The construction site must be demarcated (fenced or delineated with danger tape). Permanent demarcation is preferable to prevent the public from gaining access to the site. A site plan must be drawn up by the construction contractor and kept on file. The site plan must show proposed stockpile areas, waste storage areas and ablution facilities. Signage indicating that the site is a "Construction Site" and indicating the risks associated with the site must be displayed. Emergency numbers, "No-smoking" signs and "No Open Flame" signs must also be displayed at the construction site. Fire-fighting equipment must be placed at the construction site and must be easily accessible. The fire-fighting equipment must be maintained on an annual basis. Before any employees or contactors commence work at the construction site of the broiler facilities each individual must undergo an 	 Applicant Construction contractor Applicant
(employees and contractors) to commence construction activities onsite.	dangers of working at the construction site, resulting in a risk to their safety.	(employees and contractors) regarding environmental awareness.	 Induction Training session that will cover the aspects as detailed in the Environmental Awareness Plan (contained in this EMPr). Attendance registers must be completed and kept on file. Employees and contract workers must be issued with suitable Personal Protective Equipment (PPE), as applicable to each persons' job onsite. 	Construction contractor
Surface and Groundw	ater			
Pre-Construction Phase	Ourfees and a lot	To evolve an evolution of the state		A
Inadequate planning or faulty designs.	Surface and groundwater pollution due to inadequate planning or faulty designs.	To avoid preventable surface and groundwater pollution by effective planning and design.	 All environmental features and sensitive receptors should be taken into account during the design and planning phase. All reasonable measures should be taken to minimise preventable impacts on the environment. 	 Applicant Construction contractor
Construction Phase				
Hydrocarbon spillages or leakages from vehicles, including construction vehicles.	Pollution of surface and/or groundwater resources.	To prevent hydrocarbon spillages and/or leakages from construction vehicles and ensure that any spillages are cleaned effectively.	 Spill kits must be onsite to clean up any hydrocarbon spillages. Vehicles should regularly be inspected to ensure that any fuel or oil leaks are repaired. Drip trays should be used for any minor repairs or maintenance work done onsite. Any soil that has been contaminated by oil, diesel or petrol must be regarded as hazardous and disposed of at an appropriately licensed facility. Safe Disposal Certificates must be obtained and kept on record. 	 Applicant Construction contractor
Spillages from chemical toilets.	Pollution of surface and/or groundwater resources.	To prevent spillages from chemical toilets and ensure that any spillages are cleaned effectively.	 Sufficient ablution facilities must be provided. Chemical toilets must be serviced regularly and must be provided with toilet paper at all times. 	 Applicant Construction contractor



Aonact	Impost and Natura	Import	Impact Management Actions and Statements in order to quaid modify remady, control or step pollution or	Deeneneihle
Aspect	impact and Nature	Outcomes management impact management Actions and Statements in order to avoid, modify, remedy, control or stop politition		Responsible
		Outcomes		
			 Proof of safe disposal of contents of chemical toilets should be kept on record. 	
			 Any spillages from the chemical toilets must immediately be cleaned and the contaminated soil disposed of as hazardous waste. 	
Incorrect management,	Pollution of surface and/or	To ensure that construction waste	 Construction waste must be stored in a designated area. 	Applicant
storage and disposal of	groundwater resources.	is managed in an environmentally	 Building rubble must be stored separately from domestic waste. 	Construction
waste, including		responsible manner.	Refuse bins must be provided for domestic waste.	contractor
construction waste.			Large volumes of waste may not accumulate onsite.	
			• Waste must be taken to appropriately licensed facilities for reuse, recycling, recovery or disposal. Safe Disposal Certificates must be	
			obtained and kept on record.	
			No waste may be burnt or buried onsite.	
			 Building rubble must be kept clean of plastic and brick ties. 	
			• All waste must be stored in accordance with the Norms and Standards for the storage of waste (GN 926 of 29 November 2013).	
Runoff of contaminated	Pollution of surface and/or	To prevent the contamination of	A storm water management plan must be developed and implemented at the broiler facilities.	Applicant
storm water.	groundwater resources.	storm water.	 Storm water must be diverted around areas where there are pollution sources. 	Construction
			 Storm water drainage infrastructure must be regularly inspected for obstructions. 	contractor
			 No contaminated storm water may be released into the environment from the construction activities. 	
			Washing or cleaning of equipment or machinery must occur in a designated area and the contaminated wash water must be contained.	
			Such an area could be a plastic drum, a container or a plastic lined pit.	
The mixing of concrete.	Pollution of surface and/or	To prevent the contamination of	Concrete should ideally be mixed on an impermeable surface such as a concrete slab.	Applicant
5	groundwater resources.	water during the concrete mixing.	Cement bags (new and used) must be stored under roof or in closed containers where they will not be exposed to the weather	Construction
	5		 Dry concrete must be removed and disposed of together with other building rubble 	contractor
			Ready-mix concrete trucks may clean chutes into foundations, but not elsewhere onsite	
The wastage of water	Wastage of water resources	To prevent wastage of water	 Water pipes and boses should be inspected on a regular basis and any leakages should immediately be repaired. 	Applicant
(municipal water	due to the irresponsible use of		 Running water taps or hoses may not be left unattended 	Construction
supply)	water		• Running water taps of hoses may not be left unattended.	contractor
Operational Phase				contractor
Hydrocarbon spillages	Pollution of surface and/or	To prevent hydrocarbon spillages	 Spill kits must be apsite to alean up any hydrocarbon spillages. 	 Applicant
or leakages from	aroundwater resources	and/or leakages from vehicles and	 Split kits thus be offsite to clean up any hydrocarbon splitages. Vabiales should regularly be inspected to ansure that any fuel or oil leaks are repaired. 	Applicant Site manager
vehicles	groundwater resources.	ensure that any spillages are	 Venicles should regularly be inspected to ensure that any rule of on leaks are repaired. Any sail that has been contaminated by ail discaller patral must be recorded as becarded, and dispessed of at an enprepriately licensed. 	
venicies.		cleaned effectively	 Any solitinal has been contaminated by oil, diesel of petrol must be regarded as nazardous and disposed of at an appropriately licensed facility. Sefe Disposed Contificated must be obtained and kept on record. 	
Incorroct management	Pollution of surface and/or	To oncure that construction waste	Meste must be menaged esserting to its begand elegation (i.e. general ve begandeue weste)	Applicant
storage and disposal of	aroundwater resources	is managed in an environmentally	 Waste must be managed according to its mazard classification (i.e. general vs. mazardous waste). Conserved and beganded according to its mazard classification (i.e. general vs. mazardous waste). 	Applicant Site manager
waste	groundwater resources.	responsible manner	General and nazardous waste streams must not be mixed.	• Site manager
Waste.			Waste stored onsite must be kept in appropriate containers with closable lids.	
			Large volumes of waste may not accumulate onsite.	
			 Waste must be taken to appropriately licensed facilities for reuse, recycling, recovery or disposal (last resort). Safe Disposal Certificates 	
			must be obtained and kept on record.	
			No waste may be burnt or buried onsite.	
	Delletter of f	To assess the second second	• All waste must be stored in accordance with the Norms and Standards for the storage of waste (GN 926 of 29 November 2013).	A 11
KUNOT OF CONTAMINATED	Pollution of surface and/or	to prevent the contamination of	A storm water management plan must be developed and implemented at the broiler facilities.	Applicant
storm water.	groundwater resources.	storm water.	Storm water must be diverted around areas where there are pollution sources.	 Site manager
			 Storm water drainage infrastructure must be regularly inspected for obstructions. 	
			 No contaminated storm water may be released into the environment from the construction activities. 	
			• Washing or cleaning of equipment or machinery must occur in a designated area and the contaminated wash water must be contained.	
			 Wash water from the wash bay must be contained and not released into the environment. 	



Aspect	Impact and Nature	Impact Manageme Outcomes	Impact Management Actions and Statements in order to avoid, modify, remedy, control or stop pollution or environmental degradation	Responsible party/ person(s)
Spillages from the sewerage network (pipelines) onsite.	Pollution of surface and/or groundwater resources.	To ensure that the seweran network is kept in a good state repair.	 Ge Ablution facilities must regularly be cleaned. Should toilets run slowly or become blocked, this should be investigated to ensure that this is not due to a broken or blocked pipe underground. Any broken or blocked pipes must be repaired. 	 Applicant Site manager
The wastage of water (municipal water supply) and electricity.	Wastage of resources due to the irresponsible use.	To prevent wastage of resource	 S. Consumption of water and electricity must be monitored. Use energy efficient lighting, where possible. Switch off lights and appliances when not in use. Water pipes and hoses should be inspected on a regular basis and any leakages should immediately be repaired. Running water taps or hoses may not be left unattended. High pressure hoses should be used, where possible. 	ApplicantSite manager
Fauna				
Construction Phase				
Construction activities.	Displacement of resident (common) species and any natural biota.	To prevent the resident spec and natural biota.	 Fauna species may not be disturbed, captured or killed and must be avoided. Trenches must be inspected regularly to ensure that no animals are trapped. 	 Applicant Construction contractor
Operational Phase				
Operational activities.	Displacement of resident (common) species and any natural biota.	To prevent the resident spec and natural biota.	es Same mitigation measures as under construction phase.	 Applicant Site manager
Operational activities.	Provision of artificial habitat for fauna species.	This is a positive impact and no	mitigation measures are therefore required.	Not applicable.
Flora				
Construction Phase				
Site clearance.	Loss of degraded / disturbed vegetation (Soweto Highveld grassland).	To minimise the loss of vegetati	 Remove only the vegetation where essential for construction and don't allow any disturbance to adjoining natural vegetation cover. Make use of predetermined roads and tracks. Once construction is complete, obsolete roads should be obliterated by by breaking the surface crust and erecting earth embankments to prevent erosion, while the natural species composition should be re-established. Colonisation of the disturbed areas by plants species from the surrounding natural vegetation must be monitored to ensure that vegetation cover is sufficient. 	 Applicant Construction contractor
Construction activities.	Establishment and spread of	To prevent the establishment a	nd • Development and implement an alien invasive eradication plan.	Applicant
	alien invasive vegetation (onsite and further than the site).	spread of alien invas vegetation.	 Use only indigenous plant species for gardens and rehabilitation. Eradicate any alien invasive vegetation observed onsite. 	Construction contractor
Operational Phase	alien invasive vegetation (onsite and further than the site).	spread of alien invas vegetation.	 Use only indigenous plant species for gardens and rehabilitation. Eradicate any alien invasive vegetation observed onsite. 	Construction contractor
Operational Phase Operational activities.	alien invasive vegetation (onsite and further than the site). Establishment and spread of alien invasive vegetation (onsite and further than the site).	spread of alien invasivegetation.	 Ve Use only indigenous plant species for gardens and rehabilitation. Eradicate any alien invasive vegetation observed onsite. Ind Same mitigation measures as under construction phase. 	 Construction contractor Applicant Site manager
Operational Phase Operational activities. Heritage Resources	alien invasive vegetation (onsite and further than the site). Establishment and spread of alien invasive vegetation (onsite and further than the site).	spread of alien invasivegetation.	 Ve Use only indigenous plant species for gardens and rehabilitation. Eradicate any alien invasive vegetation observed onsite. And Same mitigation measures as under construction phase. 	 Construction contractor Applicant Site manager
Operational Phase Operational activities. Heritage Resources Construction Phase	alien invasive vegetation (onsite and further than the site). Establishment and spread of alien invasive vegetation (onsite and further than the site).	spread of alien invasivegetation.	 Use only indigenous plant species for gardens and rehabilitation. Eradicate any alien invasive vegetation observed onsite. Same mitigation measures as under construction phase. 	 Construction contractor Applicant Site manager
Operational Phase Operational activities. Heritage Resources Construction Phase Construction activities.	alien invasive vegetation (onsite and further than the site). Establishment and spread of alien invasive vegetation (onsite and further than the site). Disturbance or destruction of cultural and heritage resources.	spread of alien invasivegetation. To prevent the establishment a spread of alien invasivegetation. To prevent the disturbance destruction of cultural and heritaresources.	 Ve Use only indigenous plant species for gardens and rehabilitation. Eradicate any alien invasive vegetation observed onsite. Same mitigation measures as under construction phase. Ve Same mitigation measures as under construction phase. If any cultural or heritage resources, sites, features or objects are exposed during the construction activities, all construction activities in the area must be stopped and a heritage specialist must be contacted to investigate the site and recommend the way forward. 	 Construction contractor Applicant Site manager Applicant Construction contractor
Operational Phase Operational activities. Heritage Resources Construction Phase Construction activities. Operational Phase Operational Phase	alien invasive vegetation (onsite and further than the site). Establishment and spread of alien invasive vegetation (onsite and further than the site). Disturbance or destruction of cultural and heritage resources.	spread of alien invasivegetation. To prevent the establishment a spread of alien invasivegetation. To prevent the disturbance destruction of cultural and heritaresources.	 Ve Use only indigenous plant species for gardens and rehabilitation. Eradicate any alien invasive vegetation observed onsite. Same mitigation measures as under construction phase. Ve Same mitigation measures as under construction phase. If any cultural or heritage resources, sites, features or objects are exposed during the construction activities, all construction activities in the area must be stopped and a heritage specialist must be contacted to investigate the site and recommend the way forward. 	 Construction contractor Applicant Site manager Applicant Construction contractor



Aspect	Impact and Nature	Impact Management Outcomes	Impact Management Actions and Statements in order to avoid, modify, remedy, control or stop pollution or environmental degradation	Responsible party/ person(s)	
Palaeontological Resources					
Construction Phase					
Construction activities.	The disturbance and/or destruction of the fossil assemblages.	To prevent the unregulated/ uncontrolled destruction of fossil assemblages.	 A field assessment by a qualified palaeontologist must be conducted. A Protocol of Fossil Finds must be compiled and submitted to the South African Heritage Resources Agency. The protocol must be implemented during the construction phase. 	 Applicant Construction contractor	
Operational Phase					
Operational activities.	None anticipated.		Not Applicable.	Not Applicable.	
Air Quality and Noise					
Construction Phase					
Construction activities.	Generation of dust by construction vehicles.	To prevent the generation of dust.	 Implement dust suppression techniques. Limit vegetation clearance until it is necessary for soil stripping. Retain vegetation and soil in position for as long as possible before stripping. A complaints register must be kept onsite and be easily accessible to any party who wishes to lodge a complaint. The complaints register must include the following fields: The date of the complaint; The name and surname of the person lodging the complaint; Details of the complaint; and How and when the complaint was addressed. 	 Applicant Construction contractor 	
Construction activities.	Release of emissions from construction vehicles.	To minimise emissions from construction vehicles.	Regular maintenance of vehicles to minimise the release of emissions.Speeds bumps and traffic signs should be erected to prevent speeding onsite.	 Applicant Construction contractor	
Construction activities.	Generation of nuisance and noise from construction vehicles and equipment / machinery.	To prevent the generation of excessive noise.	 Noisy activities must be scheduled during times of the day that will result in the least disturbance to adjacent sensitive receptors. Noisy work must also be avoided over weekends and public holidays. No amplified music is allowed onsite. Sirens and/or hooters may only be used during emergencies and drills. Noisy work must be avoided on weekends and public holidays. Vehicles must not be left idling unnecessarily. All vehicles must be regularly maintained. A complaints register must be kept onsite and be easily accessible to any party who wishes to lodge a complaint. The complaints register must include the following fields: The date of the complaint; The name and surname of the person lodging the complaint; Details of the complaint; and How and when the complaint was addressed. The applicant must comply with the Lekwa Local Municipality – Nuisance Management By-Laws, 2015. 	 Applicant Construction contractor 	
Operational Phase	I				
Operational activities.	Generation of dust by vehicles onsite.	To prevent the generation of dust.	 Implement dust suppression techniques, if required (for example, if there are any unpaved areas). A complaints register must be kept onsite and be easily accessible to any party who wishes to lodge a complaint. The complaints register must include the following fields: The date of the complaint; The name and surname of the person lodging the complaint; Details of the complaint; and How and when the complaint was addressed. 	ApplicantSite manager	
Operational activities.	Release of emissions from vehicles.	To minimise emissions from vehicles.	 Regular maintenance of vehicles to minimise the release of emissions. Speeds bumps and traffic signs should be erected to prevent speeding onsite. 	 Applicant Site manager	



Aspect Operational activities.	Impact and Nature Generation of nuisance and noise from vehicles. This also includes nuisance and noise from operational and maintenance activities.	Impact Management Outcomes To prevent the generation of excessive noise.	 Impact Management Actions and Statements in order to avoid, modify, remedy, control or stop pollution or environmental degradation No amplified music is allowed onsite. Sirens and/or hooters may only be used during emergencies and drills. Noisy work must be avoided on weekends and public holidays. Trucks must not be left idling unnecessarily. Drivers should be instructed to also not hoot or rev trucks unnecessarily. All vehicles and equipment must be regularly maintained. Loose or rattling parts should be repaired. A complaints register must be kept onsite and be easily accessible to any party who wishes to lodge a complaint. The complaints register must include the following fields: The date of the complaint; Details of the complaint; and How and when the complaint was addressed. The applicant must comply with the Lekwa Local Municipality – Nuisance Management By-Laws, 2015. 	Responsible party/ person(s) • Applicant • Site manager
			Silencers must be fitted to equipment and machinery, where possible.	
Soil				
Construction Phase				
Hydrocarbon spillages	Soil pollution.	To prevent hydrocarbon spillages	 Use drip trays for any machinery and/or vehicle repair work. 	Applicant
or leakages from		and/or leakages from construction	 Immediately repair any leaking machinery or vehicles. 	Construction
vehicles, including		vehicles and ensure that any	Place oil drums on impermeable surfaces or plastic liners.	contractor
construction vehicles.		spillages are cleaned effectively.	 Immediately clean any hydrocarbon spillages and dispose of as hazardous waste. Safe Disposal Certificates must be obtained and kept 	
Spillagos from chomical	Soil pollution	To provent spillages from chemical	OILIECOID.	- Applicant
toilets		toilets and ensure that any	Chamical tailate must be provided.	Applicant Construction
tollets.		spillages are cleaned effectively	Chemical toilets must be serviced regularly. Dreaf of cofe dispessel of contents of chemical toilets chevid he kent on record	Construction
		opinageo are oreaned encouvery.	 Proof of sale disposal of contents of chemical toilets should be kept on record. Any spillages from the chemical toilets must immediately be cleaned and the contaminated soil disposed of as hazardous waste. Safe 	Contractor
			Disposal Certificates must be obtained and kept on record.	
The incorrect	Soil pollution.	To ensure that construction waste	• Waste must be managed according to its hazard classification (i.e. general vs. hazardous waste) and general and hazardous waste	Applicant
management, storage		is managed in an environmentally	streams should not be mixed.	Construction
and disposal of waste		responsible manner.	 Waste stored onsite must be kept in appropriate containers with lids that can be closed. 	contractor
(general and hazardous			 Large volumes of waste may not accumulate onsite. 	
waste), including			• Waste must be taken to appropriately licensed facilities for reuse, recycling, recovery or disposal. Safe Disposal Certificates must be	
construction waste.			obtained and kept on record.	
			No waste may be burnt or buried onsite.	
			All waste must be stored in accordance with the Norms and Standards for the storage of waste (GN 926 of 29 November 2013).	
The mixing of concrete.	Soil pollution.	To prevent the contamination of	 Concrete should ideally be mixed on an impermeable surface such as a concrete slab. 	Applicant
		soil during to concrete mixing.	 Cement bags (new and used) must be stored under roof or in closed containers where they will not be exposed to rain. 	Construction
			 Dry concrete must be removed and disposed of together with other building rubble. 	contractor
			 Ready-mix concrete trucks may clean chutes into foundations, but not elsewhere onsite. 	
The clearance of	Soil erosion.	To prevent soil erosion.	Limiting vegetation clearance until it is necessary for soil stripping.	Applicant
vegetation and the			A temporary storm water management plan must be developed and implemented.	Construction
removal of topsoil and			 Implement adequate erosion prevention measures, such as measures to dissipate runoff water velocities. 	contractor
subsoil.			Implement adequate storm water management measures.	
Construction activities	Soil compaction.	To prevent soil compaction.	• Soils should be moved when dry, as far as possible.	Applicant
to create foundations for			Excessively heavy vehicles should not be used for earthmoving activities. This will minimise compaction of the soil.	Construction
buildings and other				contractor



Aspect	Impact and Nature	Impact Management Outcomes	Impact Management Actions and Statements in order to avoid, modify, remedy, control or stop pollution or environmental degradation	Responsible party/ person(s)
associated				
infrastructure.				
Incorrect storage	Degradation of topsoil.	To conserve/ protect topsoil.	Topsoil and subsoil must be stored on separate stockpiles.	Applicant
practices.			Cover topsoil stockpiles to prevent the soil being washed away during rainfall events.	Construction
			Topsoil must be replaced during rehabilitation and landscaping.	contractor
Operational Phase				
Hydrocarbon spillages	Soil pollution.	To prevent hydrocarbon spillages	Same mitigation measures as under construction phase.	Applicant
or leakages from		and/or leakages from vehicles and		Site manager
vehicles.		ensure that any spillages are		Ũ
		cleaned effectively.		
The incorrect	Soil pollution.	To ensure that waste is managed	Same mitigation measures as under construction phase.	Applicant
management, storage		in an environmentally responsible		Site manager
and disposal of waste		manner.		
(general and hazardous				
waste).				
Spillages from the	Soil pollution.	To ensure that the sewerage	Ablution facilities must regularly be cleaned.	Applicant
sewerage network		network is kept in a good state of	• Should toilets run slowly or become blocked, this should be investigated to ensure that this is not due to a broken or blocked pipe	 Site manager
(pipelines) onsite.		repair.	underground.	
			 Any broken or blocked pipes must be repaired. 	
Socio-economic				
Construction Phase				
Construction activities.	Generation of a number of job of	oportunities.	This is a positive impact and no mitigation measures are therefore required.	Not applicable.
Construction activities.	Potential increase in crime due	To prevent an increase in incidents	 Reference checks should be conducted on all workers before they are appointed. 	Applicant
	to the influx of workers.	of crime in die area.	• Workers should not be allowed to leave the construction site during the day and should be transported to and from the site on a daily	Construction
			basis.	contractor
Construction activities.	Stimulation of the local economy		This is a positive impact and no mitigation measures are therefore required.	Not applicable.
Operational Phase				
Operational activities.	Generation of a number of job of	oportunities.	This is a positive impact and no mitigation measures are therefore required.	Not applicable.
Operational activities.	Stimulation of the local economy	1.	This is a positive impact and no mitigation measures are therefore required.	Not applicable.
Traffic				
Construction Phase				
Construction activities.	Increase in traffic volumes to	To minimise the effect of an	Ensure that construction vehicles are roadworthy and that drivers comply with road rules.	Applicant
	the site.	increase in traffic volumes.	 Loads must be securely fastened and may not exceed the tonnage limitations for each vehicle. 	Construction
				contractor
Operational Phase				
Operational activities.	Increase in traffic volumes to	To minimise the effect of an	Ensure optimal operation of the broiler facilities to ensure minimal impact on traffic flow.	Applicant
	the site.	increase in traffic volumes.		Site manager
Fire Risk				
Construction Phase				
Construction activities.	The potential for fire	To prevent the occurrence of fires.	Access to fire-fighting equipment must at all times be unobstructed.	Applicant
	establishment at the		 Emergency numbers must be clearly displayed at the construction site. 	Construction
	construction area and its			contractor
	subsequent risk to human life			
	and infrastructure.			
Operational Phase				



Aspect	Impact and Nature	Impact Management	Impact Management Actions and Statements in order to avoid, modify, remedy, control or stop pollution or	Responsible
		Outcomes	environmental degradation	party/ person(s)
Operational activities.	The potential for fire establishment or explosions at the fuel depot and its subsequent risk to human life and infrastructure.	To prevent the occurrence of fires and/or explosions.	 An Emergency Response Plan must be compiled for the filling station. A site plan showing the following must be compiled and displayed at the fuel depot: Fire-fighting equipment; Emergency assembly point(s); Access routes; Fire-fighting equipment must be maintained as required in SANS 1475-1: 2010. Hoses must be inspected on an annual basis and any defective or damaged hoses must be replaced. The fire-fighting system and all fire-fighting equipment must be inspected on an annual basis by a suitably qualified person and records kept on file. The fire-fighting system and all fire-fighting equipment must be to the satisfaction of the municipal fire authority. All repair and maintenance work must be supervised. Access to fire-fighting equipment must at all times be unobstructed. Emergency numbers must be clearly displayed at the broiler facilities. Employees must be trained on the use of fire-fighting equipment. Fire drills must be conducted on a regular basis and records kept on file. The volume and tone of emergency sirens (such as the fire alarm) must be clearly audible above ambient noise levels, at the site perimeter. 	 Applicant Site manager
Diseases				
Construction Phase				
Disease Outbreaks	The potential outbreak of poultry diseases among chickens, other avian species and humans.	To prevent the outbreak of poultry diseases among chickens, other avian species and humans.	 All chickens should be obtained from disease free sources. Use a sound vaccination programme. Never permit contaminated equipment from other poultry farms in buildings. Keep wild birds, rodents and predators away from the broiler houses. Installation of rodent bait traps and flytraps. Clean and sanitize broiler houses after each cycle with biodegradable soaps and disinfectants. Monitoring and auditing of processes by a contracted veterinarian or state vet. Obtain a reliable prognosis before starting treatment for a disease problem. Proper handling, storage and disposal of litter and mortalities, in demarcated areas away from foot traffic or vehicles entering and leaving the premises. 	Applicant
Construction Phase				
Disease Outbreaks	The potential outbreak of poultry diseases among chickens, other avian species and humans.	To prevent the outbreak of poultry diseases among chickens, other avian species and humans.	Same mitigation measures as under construction phase.	Applicant

8.2 Applicable Environmental Management Standards and Practices

• Norms and Standards for the Storage of Waste (GN 926 of 29 November 2013).

8.3 Applicable provisions of the NEMA, 1998, as amended, regarding closure

The provisions of NEMA, 1998, pertaining to closure are not applicable to this proposed development as the development does <u>not</u> include the prospecting, exploration or extraction of a mineral or petroleum resource.

8.4 Applicable provisions of the NEMA, 1998, as amended, regarding financial provision for rehabilitation

The provisions of NEMA, 1998, pertaining to financial provision for rehabilitation are not applicable to this proposed development as the development does <u>not</u> include the prospecting, exploration or extraction of a mineral or petroleum resource.

8.5 Method of monitoring the implementation of the impact management actions

Construction Phase

An independent Environmental Control Officer (ECO) must be appointed to conduct monthly compliance audits during the construction phase of the proposed development. The audits must verify compliance with the Environmental Authorisation and this Environmental Management Programme and a formal report must be compiled after each audit. The reports must be submitted to the Competent Authority. Once the construction phase has been completed, a post-construction audit must be conducted by the independent ECO and the report also submitted to the Competent Authority.

Operational Phase

An internal ECO must be appointed to conduct monthly compliance audits during the operational phase of the proposed development and to ensure that corrective actions are implemented where required. Reports resulting from these audits do not need to be submitted to the Competent Authority.

An independent ECO must be appointed to conduct annual compliance audits during the operational phase of the proposed development. The audits must verify compliance with the Environmental Authorisation and this Environmental Management Programme and must comply with the requirements of Appendix 7 of the Environmental Impact Assessment Regulations of 2014, as amended. A formal report must be compiled after each audit and the reports must be submitted to the Competent Authority.

8.6 The frequency of monitoring the implementation of the impact management actions

Construction Phase

Monthly independent ECO compliance audits.

Operational Phase

Monthly internal ECO compliance audits and annual external ECO compliance audits.

8.7 Persons who will be responsible for the implementation of the impact management actions

The applicant is ultimately responsible for the implementation of the impact management actions, during all phases of the development, even where the implementation of the actions may be contracted out to a third party. During the construction phase, sub-contractors will for the most part be carrying out the required impact management actions and these actions

should therefore be adequately communicated to the contractors. During the operational phase, the applicant will be mostly responsible for carrying out the required impact management actions along with the site manager.

The applicant must appoint a designated person for the function of internal/in-house ECO and an external, suitably qualified Environmental Assessment Practitioner for the function of external, independent ECO.

8.8 Time periods within which the impact management actions must be implemented Planning and Design Phase

The management actions for the Planning and Design Phase must be completed before the Pre-construction Phase is commenced with.

Pre-construction Phase

The management actions for the Pre-construction Phase must be completed before the Construction Phase is commenced with.

Construction Phase

The management actions for the Construction Phase must be completed prior to the completion of the Construction Phase (i.e. before the Operational Phase is commenced with). Rehabilitation should be conducted concurrent with construction as far as possible. Any additional rehabilitation should be conducted within one year from the completion of construction.

Operational Phase

The management actions for the Operational Phase must be implemented during the Operational Phase, on a continual basis.

8.9 Mechanism for monitoring compliance with the impact management actions

Please refer to Sections 8.5 and 8.6 of this EMPr.

8.10 Program for reporting on compliance, taking into account the requirements as prescribed by the EIA Regulations, 2014, as amended

Table 4: Reporting program

Type of reporting	Reporting Frequency	Authority to report to				
Construction Phase						
Monthly independent ECO	Monthly, for the duration of the	Competent Authority (MDARDLEA)				
compliance audits	construction phase					
Post-construction phase	Once-off, upon completion of the	Competent Authority (MDARDLEA)				
independent ECO compliance audit	construction phase					
Operational Phase	Operational Phase					
Monthly independent ECO	N/A – Internal	N/A – Internal				
compliance audits						
Annual external ECO compliance	Annually	Competent Authority (MDARDLEA)				
audits						

9. ENVIRONMENTAL AWARENESS PLAN

The applicant will ensure that its employees are adequately informed of the environmental risks that may result from work that they conducted onsite and how these risks must be dealt with in order to avoid pollution or the degradation of the environment, through the implementation of this Environmental Awareness Plan.

The Environmental Awareness Plan for the SLJ van Rensburg Broiler Facilities consists of two parts, namely, initial Induction Training and ongoing job-specific, Toolbox-talk Training. The same training material will be utilised during both the Induction Training and Toolbox-talk Training.

Induction Training

Before any employees or contactors commence work at the filling station, each individual must undergo an Induction Training session. This is required during the following phases of the proposed project:

- Pre-Construction phase;
- Construction phase (including rehabilitation); and
- Operational phase.

An attendance register must be kept by SLJ van Rensburg and each individual who has completed the Induction Training must complete the attendance register. This will also function as an acknowledgement that each individual has understood the training received.

Toolbox-talk Training

Toolbox-talk Training must be conducted biannually during the operational phase of the proposed development and all operational employees must attend these sessions.

An attendance register must be kept by SLJ van Rensburg and each individual who has completed the Toolbox-talk Training must complete the attendance register. This will also function as an acknowledgement that each individual has understood the training received.

Training Material

The same material will be used for both the Induction Training and Toolbox-talk Training sessions and will cover the following topics:

- What is meant by the term "environment";
- Why the environment requires protection;
- The environmental risks that may result from work that is performed at the broiler facilities, during the above mentioned phases of the project;
- How the identified risks may impact upon the environment;
- How the identified risks can be mitigated;
- The protection of workers who refuse to do environmentally hazardous work, as provided for in the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended;
- Environmental Management Programme conditions that are specifically applicable to employee's work onsite;
- Fire-fighting procedures; and
- Hydrocarbon spill response procedure, including spill kit usage training.

The training can be presented in a verbal format if required.

10. SPECIFIC INFORMATION REQUIRED BY THE COMPETENT AUTHORITY

No specific information has been required by the Competent Authority at this stage of the application process.