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DOCUMENT CONTROL RECORD

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Report Title	Township establishment on the Remainder of Portions 1 and 2 of the Farm		
	Seville 224 KU (Greater Seville Extension 2), Bushbuckridge Local		
	Municipality, Mpumalanga Province		
Document ID	Final		
Proponent /	Bushbuckridge Local Municipality		
Applicant			
Date	November 2022		
DOCUMENT APP	PROVAL		
EAP Name	Mankaleme M. Magoro		
Signature	lagor		

EAP DECLARATION OF INDEPENDENCE

- I, Mankaleme Martina Magoro, in my capacity as an Environmental Assessment Practitioner, hereby declare that I-
 - Act as an independent environmental assessment practitioner.
 - Do not have any financial interest in the undertaking of the activity, other than remuneration for the work performed in terms of the National Environmental Management Act (No. 107 of 1998).
 - As a registered member of the South African Council for Natural Scientific Professions and the Environmental Assessment Practitioners Association of South Africa, will undertake work in accordance with the Code of Conduct of the Councils.
 - Based on information provided to us by the project proponent, and in addition to information
 obtained during this study, have presented the results and conclusion within the associated
 document to the best of our professional judgement.

Signature of EAP: .

Date Signed: 01 November 2022

TABLE OF CONTENTS

DOCUMENT CONTROL RECORD	i
EAP DECLARATION OF INDEPENDENCE	ii
LIST OF TABLES	vi
LIST OF FIGURES	vi
LIST OF APPENDICES	vii
ABBREVIATIONS AND ACRONYMS	viii
GLOSSARY OF TERMS	ix
I. INTRODUCTION	I
I.I. Purpose of the Report	I
1.1.1. Listing Notice 2, Activity 15	I
1.1.2. Listing Notice 1, Activity 24 (ii)	I
1.1.3. Listing Notice 1: Activity 28	I
I.2. Environmental Impact Assessment Process	
I.2.1. Application Phase	2
I.2.2. Scoping Phase	3
I.2.3. Environmental Impact Reporting Phase	4
2. DETAILS OF THE PROPOSED ACTIVITY	4
2.1. Location of the Proposed Development	4
2.2. Description of the Proposed Development	5
2.3. Civil Services Envisaged for the Proposed Development	6
2.3.1. Roads	6
2.3.2. Water	6
2.3.3. Solid Waste	6
2.3.4. Sewer	
2.3.5. Electricity	7
3. ALTERNATIVES	7
3.1. Feasible and Reasonable Alternatives Considered for the Proposed Activity	7
3.1.1. Site Alternatives	7
3.1.2. Activity Alternatives	
3.1.3. Design Alternatives	
3.1.4. Technology Alternatives	
3.1.5. Operational Aspects	
4. NO-GO ALTERNATIVES	
5. LEGISLATION AND POLICY GUIDELINES CONSIDERED	9

6. DESCRIPTION OF THE RECEIVING ENVIRONMENT	11
6.1. Physical Environment	11
6.1.1. Climate	11
6.1.2. Geology	11
6.1.3. Hydrology	11
6.1.4. Topography	11
6.2. Biological Environment	11
6.2.1. Vegetation	11
6.2.2. Fauna	11
6.2.3. Archaeological and Cultural Heritage	11
7. DESCRIPTION OF ENVIRONMENTAL ISSUES AND IMPACTS IDENTIFIED	12
7.1. Direct Habitat Destruction	12
7.2. Habitat Fragmentation	12
7.3. Soil and Water Pollution	13
7.4. Spread and Establishment of Alien Invasive Species	13
7.5. Negative Effect of Human Activities	13
7.6. Visual Environment and Noise	14
7.7. Surface Drainage	14
7.8 Air Quality	14
7.9. Noise Impact	14
7.10. Visual	14
7.11. Technical	14
8. ENVIRONMENTAL IMPACT STATEMENT	15
8.1. Summary of Key Findings	15
8.1.1. Biodiversity/ Ecological Impact Assessment	15
8.1.2. Heritage Aspects	15
8.1.3. Floodline	15
9. NEED AND DESIRABILITY OF THE PROPOSED DEVELOPMENT	15
10. PUBLIC PARTICIPATION PROCESS	16
I 0. I . Methodology	16
10.1.1. Newspaper Publication	16
10.1.2. On - Site Notices	16
10.1.3. Consultation with Stakeholders	16
10.1.4. Issues and Responses	16
II. ENVIRONMENTAL IMPACT DETERMINATION AND EVALUATION	17

II.I Methodology to Assess the Impacts	. 17
12. KEY ENVIRONMENTAL IMPACTS	.19
13. COMPARATIVE ASSESSMENT OF THE IMPLICATIONS OF PROPOSED ACTIVITY AND IDENTIFIED ALTERNATIVES:	
13.1. Advantages of the proposed activity and alternatives	.23
13.2. Disadvantages of the proposed activity and alternatives	.23
14. CONCLUSION	.25

LIST OF TABLES

Table I: The most pertinent relevant legislation to the proposed development	9
Table 2: Significance ratings	17
Table 3: Description of the parameters used in the matrixes	18
Table 4: Possible environmental impacts identified	19
LIST OF FIGURES	
Figure 1: Aerial locality map of the proposed development site	4
Figure 2: Topographic locality map of the proposed development site	5
Figure 3: Township layout plan	6

LIST OF APPENDICES

Appendix I	Plan of Study of Environmental Impact Assessment
Appendix 2	Topographic Locality Map and Topographical Survey
Appendix 3	Township Layout Plan
Appendix 4	Public Participation Process
Appendix 4.1	List of Stakeholders / Authorities
Appendix 4.2	Communication with Stakeholders / Authorities
Appendix 4.3	Proof of Notice Delivery
Appendix 4.4	Proof of Newspaper Publication
Appendix 4.5	On-Site Notices
Appendix 4.6	Comments Received
Appendix 4.6.1	Comments from the Competent Authority
Appendix 4.7	Proof of Scoping Report Circulation
Appendix 4.8	Comments and Response Report
Appendix 5	Site Photographs
Appendix 6	Additional Information
Appendix 6.1	Proof of Request for the Confirmation of Bulk Infrastructure Services Letter
Appendix 6.2	Details and Expertise of EAP

ABBREVIATIONS AND ACRONYMS

EIA Environmental Impact Assessment

EIR Environmental Impact Report

EAP Environmental Assessment Practitioner

DARDLEA Department of Agriculture, Rural Development, Land and Environmental Affairs

SR Scoping Report

CSR Consultation Scoping Report

DSR Draft Scoping Report
FSR Final Scoping Report

EA Environmental Authorisation

RoD Record of Decision

CA Competent Authority

BLM Bushbuckridge Local Municipality

EDM Ehlanzeni District Municipality

S & EIR Scoping and Environmental Impact Report

EMP Environmental Management Plan/ Programme

EMPr Environmental Management Plan/ Programme Report

Ptn Portion
Ha Hectares

PoS Plan of Study

GN Government Notice

LN Listing Notice

EAPASA Environmental Assessment Practitioners Association of South Africa

SACNASP South African Council for Natural Scientific Professions

NEMA National Environmental Management Act
SAHRA South African Heritage Resource Agency
NEMA National Environmental Management Act

NWA National Water Act

NHRA National Heritage Resources Act

NEMWA National Environmental Management Waste Act

CARA Conservation of Agricultural Resources Act

I & APs Interested and Affected Parties

PPP Public Participation Process

GLOSSARY OF TERMS

Township establishment: a process of converting an agricultural zoned land into residential, commercial or industrial properties.

Environmental assessment practitioner: is a consultant responsible for conducting environmental impact assessment

Environmental impact assessment: a systematic process of identifying, assessing and reporting environmental impacts associated with an activity.

Plan of study of environmental impact assessment: a study contemplated in regulation 22 which forms part of a scoping report and sets out how an environmental impact assessment will be conducted.

Proponent / applicant: a person intending to submit an application for environmental authorisation

Significant impact: means an impact that may have a notable effect on one or more aspects of the environment or may result in noncompliance 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.

Development: means the building, erection, construction or establishment of a facility, structure or infrastructure, including associated earthworks or borrow pits, that are 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: means any evidence of physical alteration as a result of the undertaking of any activity.

Indigenous vegetation: refers to 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.

Earth works: this involves construction machinery, dampening and general preparation of the site for construction purposes.

Mitigation measures: all actions taken to eliminate, offset or reduce potentially adverse environmental impacts to acceptable levels (World Bank, 1999:1).

Interested & affected party: a person, group of people, an organisation (public or private), a business, or other party that has an interest or is affected in terms of their health, property rights, or economy by a proposed activity.

Listed activities: activities that have been recognised as having a detrimental impact on the environment

I. INTRODUCTION

Leago Environmental Solutions was appointed by Nkanivo Development Consultants on behalf of Bushbuckridge Local Municipality as independent environmental assessment practitioners to undertake an environmental impact assessment process in terms of the National Environmental Management Act (No. 107 of 1998) read together with the Environmental Impact Assessment Regulations (GNR 326 of 7 April 2017) for the purpose of establishing a township. The proposed township establishment will be situated on the Remainder of Portions I and 2 of the Farm Seville 224 KU, Bushbuckridge Local Municipality, Mpumalanga Province. The proposed development site measures 34.45 hectares in extent and is expected to yield 500 stands / land uses. The proposed township establishment is to be named "Greater Seville Extension 2".

I.I. Purpose of the Report

This Scoping Report has been prepared in accordance with the EIA Regulations published in Government Notice No. R 326 of 07 April 2017. These regulations fall under Section 24(5) read with Section 44 of the National Environmental Management Act (No. 107 of 1998) as amended. NEMA Section 24(5) stipulates that listed activities require environmental authorisation from the Competent Authority. Government Notice No. R327, Listing Notice I and Notice No. R325, Listing Notice 2 of the Environmental Impact Assessment Regulations (2017) identifies the following listed activities associated with the development of a township that require environmental authorisation by means of full EIA (Scoping and Environmental Impact Reporting).

1.1.1. Listing Notice 2, Activity 15

The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for - (i) the undertaking of a linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan.

Applicability to the project: the clearance of an area of 34.45 hectares of indigenous vegetation.

1.1.2. Listing Notice 1, Activity 24 (ii)

The development of a road - (ii) a road with a reserve wider than 13.5 meters, or where no reserve exists where the road is wider than 8 metres.

Applicability to the project: the development of roads with reserves of 15 and 35 meters.

1.1.3. Listing Notice 1: Activity 28

Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development: (i) will occur inside an urban area, where the total land to be developed is bigger than 5 hectares;

or (ii) will occur outside an urban area, where the total land to be developed is bigger than I hectare; excluding

where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional

purposes.

Applicability to the project: the development of residential, retail and institutional sites / land uses outside an

urban area where the total land to be developed is 34.45 hectares.

1.2. Environmental Impact Assessment Process

This process is controlled through regulations published under Government Notice No. R326 of 07

April 2017 along with the associated guidelines promulgated in terms of Chapter 5 of the National

Environmental Management Act (No. 107 of 1998).

Three phases recognised in the environmental impact assessment process are:

Application phase

Scoping phase

Environmental impact reporting phase

1.2.1. Application Phase

The application phase consists of completing the EIA application form by the environmental assessment

practitioner and signing of the declaration by the applicant. The EIA application form was submitted

to the Competent Authority on the 21st of September 2022. As part of the requirements of Regulation

16 (1)(v) of GNR 326, an application for an environmental authorisation was accompanied by a

screening report generated through the national web-based environmental screening tool.

(a) Details of the Competent Authority

Any queries regarding this application will be directed to:

Mpumalanga Department of Agriculture, Rural Development, Land and Environmental

Affairs

Environmental Impact Management

Riverside Office Park, Aqua Street (opposite Audi)

Building 4, East Tower

Nelspruit

1200

Tel: 013 759 4000

1.2.2. Scoping Phase

The scoping phase aims to identify the key environmental issues associated with the project, in part through public consultation; consideration of project alternatives and to also provide focus for the EIA phase. At the end of the scoping phase a report is compiled, known as a scoping report. As per the EIA Regulations, a consultation/ draft scoping report was compiled and circulated amongst the stakeholders, interested and affected parties to provide them with an opportunity to comment on the proposed activity / development.

(a) Consultation / Draft Scoping Report

The aim of this scoping report is to document the following:

- Details of the Environmental Assessment Practitioner undertaking the environmental impact assessment process
- Details of the project proposal
- Details of alternatives considered in formulating the project proposal
- Description of the legislation and guidelines applicable to the proposed activity
- A description of the receiving environment
- Documentation of the process and drafting of the public participation
- An identification of environmental issues and impacts associated with the project proposal and alternatives
- A description biophysical and environmental issues that require investigation
- A description of the methodology to be used in the assessment of impacts
- A plan of study for environmental impact assessment that will include a description of the public participation process.

The consultation scoping report was sent to stakeholders, interested and affected parties for observation and comments for a period of 30 days.

(b) Final Scoping Report

The consultation scoping report was submitted to the competent authority, stakeholders and interested & affected parties for review and comments. All the comments received were collected and the report was amended as appropriate and finalised. This final scoping report will be submitted together with the plan of study for environmental impact assessment to the competent authority for decision making. Once this final scoping report and the plan of study for EIA have been accepted by the competent authority, the project will proceed into the EIA Phase.

1.2.3. Environmental Impact Reporting Phase

During the EIA phase, a consultation / draft environmental impact assessment report which takes into consideration all the identified key issues and associated impacts from the scoping phase, environmental management plan and specialist studies which specifies the way the identified impacts are to be mitigated, will be produced by Leago Environmental Solutions. The consultation / draft EIAR will be made available to the stakeholders, I & APs for review and comments for a period of 30 days. Once the stakeholders and I&APs comments have been integrated into the EIAR it will be submitted to the Competent Authority for decision making.

2. DETAILS OF THE PROPOSED ACTIVITY

2.1. Location of the Proposed Development

The proposed township will be situated on the Remainder of Portions I and 2 of the Farm Seville 224 KU in Seville, Mpumalanga Province. The project area is located approximately 18km from Thulamahashe town. The site is located roughly at the following GPS coordinates: 24° 39′ 44.76″ S; 31°24′ 38.22″ E. Figure I and 2 below indicate the locality of the proposed development site.

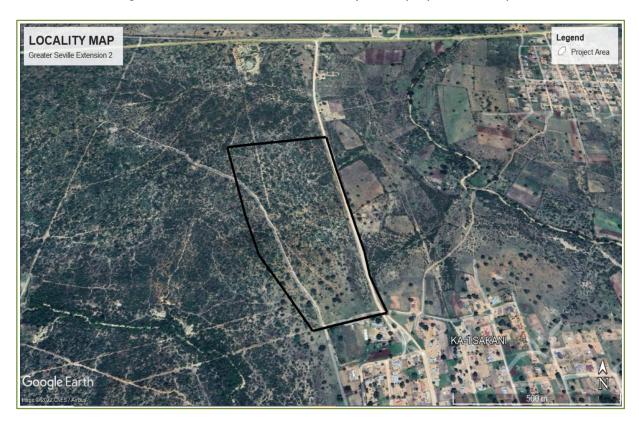


Figure 1: Aerial locality map of the proposed development site

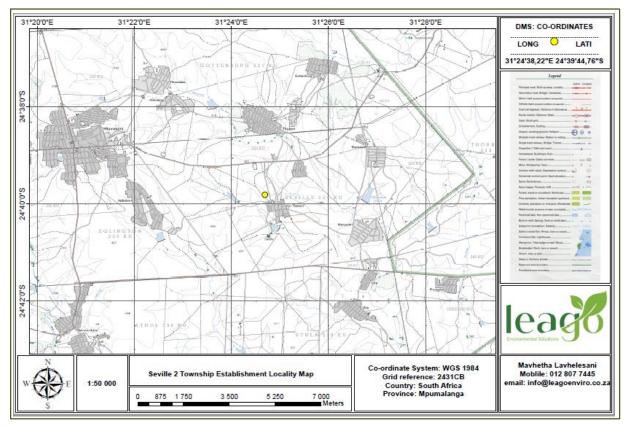


Figure 2: Topographic locality map of the proposed development site

2.2. Description of the Proposed Development

The proposed development is a township establishment which will entail 500 stands / land uses. The proposed land uses are:

- 484 Residential (dwelling units)
- 3 Business I (shops / retail)
- 2 Institutional (church)
- 3 Educational (secondary school / crèche)
- 5 Public Open Spaces (open space)
- 3 Municipal (municipal purposes)

Figure 3 below depicts the layout plan of the proposed township establishment.

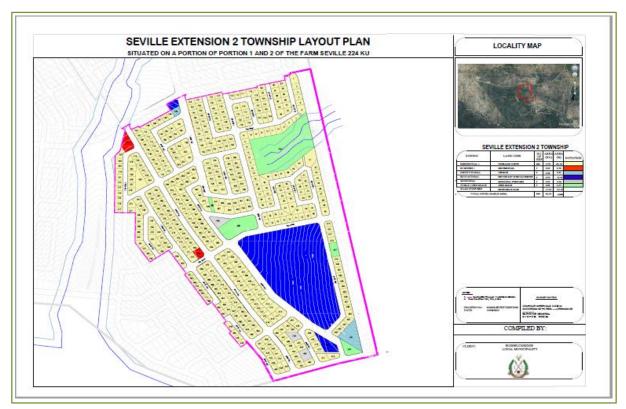


Figure 3: Township layout plan

2.3. Civil Services Envisaged for the Proposed Development

2.3.1. Roads

There is an existing functioning road network that can be used to access the proposed development site. The site can be accessed through D4418 from D4419 road.

2.3.2. Water

The proposed development site has an existing infrastructure for water. The township of Seville gets water from Thorn Dam, which is located 3.5 km east of the proposed development site.

2.3.3. Solid Waste

A regional landfill situated nearest to the proposed development site should be used to dispose solid waste. The local municipality must be responsible for the collection and disposal of the solid waste.

2.3.4. Sewer

The township of Seville has no existing wastewater treatment works. The community depends entirely on pit toilets and septic tanks for sanitation purposes.

2.3.5. Electricity

There is no electrical infrastructure present on the proposed development site. However, there is an existing electrical infrastructure in the vicinity of the project area. This could be utilised to supply the proposed township, subject to approval from the supply authority.

NB: The confirmation of bulk infrastructure services letter has been requested from the Bushbuckridge Local Municipality and will be included in the environmental impact assessment report. Kindly refer to appendix 6.1.

3. ALTERNATIVES

The EIA Regulations stipulate that a requirement of the environmental impact assessment process is to investigate feasible and reasonable alternatives to the project proposal.

The EIA Regulations define "alternatives", in relation to a proposed activity, as "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

The concept of alternatives is aimed at ensuring that the best among all possible options in all aspects (environmental, economic, etc.) is selected. The option of not carrying out the proposed actions (nogo option) or developments is discussed to demonstrate environmental conditions without the project.

This means that for any project that is proposed, there should be a number of possible proposals or alternatives for accomplishing the same objectives or meeting the same need. Alternatives that would still meet the objective of the original proposal, but which would also have an acceptable impact on the environment (referring to physical, biological, aesthetic or visual) must be considered.

3.1. Feasible and Reasonable Alternatives Considered for the Proposed Activity

3.1.1. Site Alternatives

Due to land availability, the proposed development site is the only site that has been identified for establishing the township. Site alternatives are not applicable for this project.

3.1.2. Activity Alternatives

The current preferred activity is deemed to be the only feasible activity alternative as this activity will result in improved housing which can accommodate more people. No other activities were considered in this application due to the assessed need and feasibility of the proposed activity.

3.1.3. Design Alternatives

The unique character and appeal of Seville were taken into consideration with the design philosophy. Various layout alternatives were considered by the applicant and town planners, also taking terrain and environmental constraints into account, hence the current township layout plan being the result, however there is still a possibility of a layout alternative that will still meet the objective of the project scope.

3.1.4. Technology Alternatives

As the preferred use is for predominantly residential development, there are limited technology alternatives that can be considered for these uses, however, individual components of the development could utilise diverse technological alternatives.

3.1.5. Operational Aspects

The operational aspects of the activity relate to the improved housing for the local community. No other alternatives were deemed feasible other than the proposed activity.

4. NO-GO ALTERNATIVES

This option would come into effect if this assessment reveals fatal flaws in the process. To date no fatal flaws have been revealed. The no-go alternative of not developing the proposed site would leave the environment in the current state.

5. LEGISLATION AND POLICY GUIDELINES CONSIDERED

Table 1: The most pertinent relevant legislation to the proposed development.

	ACT	SUMMARY	RELEVANCE TO DEVELOPMENT
5. I	Constitution (Act 108 of 1996)	Everyone has the right to an unharmful environment	Ensure conservation principles are promoted,
		which must be protect for the benefit of future	that the proposed activity is ecologically
		generations. This is achieved through measures such as;	sustainable and will not result in pollution and
		preventing pollution and degradation, promoting	ecological degradation.
		conservation, promoting sustainable development and	
		sustainable use of natural resources.	
5.2	National Environment	NEMA creates the legal framework that ensures that	The proposed development should be in
	Management Act (No. 107 of	environmental rights are guaranteed. The core principal	accordance with the NEMA principals, where
	1998)	relates to promoting sustainable development. The duty	this is not possible, reasons for deviation must
		of care concept extends to prevent, control and	be strongly motivated.
		rehabilitate pollution and degradation. Failure to perform	
		these duties may lead to criminal prosecution. NEMA also	
		introduces the EIA Regulations.	
5.3	National Water Act (No. 36 of	The purpose of this Act is to ensure that the nation's	Any water use must be investigated, specified,
	1998)	water resources are protected, managed and controlled	registered and licensed. Developers are
		in an environmentally sustainable way. Also, relevant to	responsible for taking measures to prevent
		the proposed activity is Section 19 of the Act which deals	pollution of water resources, undertaking
		with pollution prevention.	necessary clean up procedures and controlling
			waste.
5.4	National Environmental	Listed activities require Environmental Authorization in	The proposed development falls below
	Management: Waste	the form of a Basic Assessment or full Scoping and EIA.	thresholds.
	Management Act (No.95 of 2008)		
5.5	National Heritage Resources Act	The protection of archaeological and paleontological sites	Any artifacts uncovered during the
	(No. 25 of 1999)	and material is the responsibility of a provincial heritage	construction phase must be reported to
			SAHRA.

		resources authority and all archaeological objects are property of the state.	
5.6		CARA aims to conserve the natural agricultural resources by combating and preventing erosion, weeds and invader	
	Nesources Act (140. 43 01 1703)	plants. No land user must affect the natural flow pattern of run- off water.	

6. DESCRIPTION OF THE RECEIVING ENVIRONMENT

6.1. Physical Environment

6.1.1. Climate

The climate in Seville is a local steppe climate. There is little rainfall throughout the year and it is classified as hot semi-arid (BSh) by the Köppen-Geiger system. The average annual temperature in Seville is 21.7 °C.

6.1.2. Geology

The proposed development site is located within the lithologies of the Metamorphic Makhutswi Gneiss rocks. The Makhutswi Gneiss is complex folded, and in some areas intruded by younger, unmigmatised biotite gneiss of tonality composition. The findings of the geotechnical investigation indicate the phaneritic texture granatoid rocks which are predominately composed of felsic minerals such as quartz, plagioclase feldspars and mafic (amphiboles and pyroxene) accessory minerals.

6.1.3. Hydrology

No ground water seepage was encountered in any of the test pits during the geotechnical investigations and there were also no indications of temporary perched water tables in the soil profiles.

6.1.4. Topography

The topography of the proposed development site is generally flat.

6.2. Biological Environment

6.2.1. Vegetation

The proposed development site falls within the vegetation of the Granite Lowveld. This type of vegetation in South Africa is mainly found in Limpopo and Mpumalanga province. The Granite Lowveld comprises of tall shrubland with few trees to moderately dense low woodland dominated by Terminalia sericea, Combretum zeyheri and C. apiculatum and a ground layer consisting of Pogonarthria squarrosa, Tricholaena monache and Eragrostis rigidior (grasses).

6.2.2. Fauna

The proposed development site is impacted by the existing nearby townships and is therefore subject to a level of anthropogenic disturbance, which is not conducive to its use by large mammals, other than domestic species.

6.2.3. Archaeological and Cultural Heritage

No places designated for spiritual or social gatherings, archaeological or historical materials were found within the proposed development. Only a single grave site was recorded.

7. DESCRIPTION OF ENVIRONMENTAL ISSUES AND IMPACTS IDENTIFIED

7.1. Direct Habitat Destruction

The proposed development will result in significant loss of flora and fauna due to the clearance of vegetation.

Destruction or loss of floral diversity or vegetation communities

- The physical clearance of vegetation
- Construction activities can impact on surrounding vegetation by dust and altered surface runoff patterns
- Disturbance of the area could lead to an increase in the growth of alien vegetation.

Loss of faunal diversity and decline in animal numbers

- Installation of services by heavy vehicles could cause fauna mortalities
- Habitat loss and construction activities will force animals out of the area and animal numbers will decrease

Mitigation measures

- Damage to large indigenous trees should be kept to a minimum.
- Minimise cutting down of big indigenous trees where possible and also ensure that protected plants get conserved
- Erosion must be prevented by the correct construction of roads that provide for storm water flow.
- Where there is a possible safety risk to fauna, precautions should be put in place to prevent this.
- Peripheral impacts around the township on the surrounding vegetation of the area should be avoided to ensure the impacts are kept at a minimum.
- Advice should be sought when using any sort of poisons or pesticides.
- Noise and visual impact should be kept minimal
- Construction activities must not exceed the footprint of buildings as outlined in the township layout plan.

7.2. Habitat Fragmentation

Natural movement patterns will be disrupted and could result in the fragmentation of natural populations.

Mitigation measures

• Use existing facilities where possible

• Ensure as little disturbance as possible during the construction phase.

7.3. Soil and Water Pollution

The development will always carry a risk of soil and water pollution, with large construction vehicles contributing substantially due to oil and fuel spillages. If not promptly dealt with, spillages or accumulation of waste matter can contaminate the soil and surface or ground water, leading to potential medium / long-term impacts on both the fauna and flora. During the construction phase, heavy machinery and vehicles as well as sewage and domestic waste from workers would be the main contributors to potential pollution problems.

Mitigation measures

- Water falling on areas polluted with oil/ diesel or other hazardous substances must be contained.
- Any excess or waste material or chemicals should be removed from the site and discarded in an environmental friendly manner.
- All construction vehicles should be inspected for oil and fuel leaks regularly, and any vehicle showing signs of leaking should be serviced immediately.

7.4. Spread and Establishment of Alien Invasive Species

- Habitat disturbance provides an opportunity for alien invasive species to spread.
- Continued movement of personnel and vehicles, will result in a risk of importation of alien species.

Mitigation measures

- Weeds and invader plants must be controlled.
- Alien invasive species should be eradicated.
- Rehabilitate disturbed areas as quickly as possible.
- Institute a monitoring programme.
- Institute an eradication / control programme for early intervention.

7.5. Negative Effect of Human Activities

- An increase in human activity is anticipated.
- The risk of snaring, killing and hunting of certain faunal species will be increased.
- For construction sites, pollution could increase because of litter and inadequate sanitation and the introduction of invasive fauna and flora are increased.
- The increase in the number of people will result in increased risk of uncontrolled fires arising from cooking fires and improperly disposed cigarettes etc.

Mitigation measures

- Maintain proper firebreaks around entire development footprint.
- Construction activities must remain within defined construction areas and the road servitudes,
 no construction / disturbance should occur outside these areas.
- Construction activities should be restricted to working hours.
- Workers should be educated on the importance of conservation issues.
- Camp fires at construction sites must be strictly controlled to ensure that no veld fires are caused

7.6. Visual Environment and Noise

Visual environment will be in line with the developments in the surrounding area. During the construction phase of the proposed development, noise and dust will be a factor. These impacts and mitigation measures will be addressed in detail in the Environmental Management Plan report (EMPr).

7.7. Surface Drainage

Adequate storm water drainage systems must be designed to control the volume, speed, and location of runoff to avoid soil erosion and damage to structures.

7.8 Air Quality

During the construction phase of the development, especially when clearing the site, dust particles will be dispersed into the atmosphere which might have an impact on the air quality in the area. These impacts and mitigation measures will be addressed in the impact table as well as in the environmental management plan report.

7.9. Noise Impact

During the construction phase of the development, there will be noise generated by the machinery and construction vehicles.

7.10. Visual

The clearance of the area will result in a change of the visual attributes of the site, however, the proposed development will not impact negatively on the visual / landscape attributes of the site as the proposed development will be located next to the boundaries of the existing townships of Seville and Ka-Tsakani.

7.11. Technical

Materials and methods of construction must all be based on the "Guidelines for Human Settlement planning and design" Redbook, as well as "SABS Standard specifications and Codes of Practice" as applicable.

A geotechnical site investigation was undertaken to identify potentially adverse geotechnical conditions at the site in order to facilitate and inform the planning phase of the proposed development.

8. ENVIRONMENTAL IMPACT STATEMENT

8.1. Summary of Key Findings

8.1.1. Biodiversity/ Ecological Impact Assessment

The findings of the ecological impact assessment report indicate that the entire project area is located within an Ecological Support Area because the proposed development site has the potential to harbour the national protected plants.

8.1.2. Heritage Aspects

The heritage impact assessment was conducted to evaluate the archaeological sensitivity of the project area. No places designated for spiritual or social gatherings, archaeological or historical materials were found within the proposed development site apart from a single grave site that was recorded.

8.1.3. Floodline

Based on the findings of the floodline determination report, the project area is affected by flood water within the 1:100 periods from the stream / river. A floodline determination report was compiled and will form part of the specialist reports in the environmental impact assessment report.

9. NEED AND DESIRABILITY OF THE PROPOSED DEVELOPMENT

- The proposed development site is located adjacent to the existing townships of Seville and Ka-Tsakani.
- The proposed development will contribute towards improving the housing stock of the area and general livelihood of the residents.
- The establishment of the proposed township will prevent illegal settlement / land invasions
- The township will attract people through creation of a conducive environment for business, educational and institutional developments.

The development's location is therefore desirable due to its location in terms of:

- There will be sites for business opportunities for residents.
- The development will eventually be integrated with the environment, have proper service provision and it will be well planned.
- It will create job opportunities (permanent and temporary), ensure social upliftment of the area, create investment opportunities and create a sustainable development environment.
- The proposed development will not have a significant detrimental impact on the surrounding areas and is not in conflict with the adjacent land uses.

10. PUBLIC PARTICIPATION PROCESS

As an important component of the EIA process, the public participation process involves public inputs from stakeholders, interested and affected parties. The public participation process would therefore ensure that the views of the stakeholders and I&APs would be reflected and considered by the applicant and the authorities.

10.1.Methodology

The public participation process will be undertaken in terms of provisions of the EIA Regulations of 2017 of the National Environmental Management Act (No. 107 of 1998) as amended.

The key objectives of the public participation process are to:

- Identify a broad range of stakeholders and I&APs, inform them about the proposed project
- Provide sufficient background information regarding the proposed development to ensure informed participation
- Understand and clearly document all issues, underlying concerns and suggestions raised by the stakeholders and I&APs.

10.1.1. Newspaper Publication

The proposed development was advertised/ published in the local newspaper, Hazyview Herald, on the 28th of September 2022 to inform people about the development and request them to register their names and comment on the proposed development. Kindly refer to appendix 4.4 for proof of newspaper publication.

10.1.2. On - Site Notices

Site notices were also placed at various points on and around the proposed development site. Notices regarding the background information of the proposed development were also hand delivered to the landowners adjacent to the proposed development site. Refer to appendix 4.3 and 4.5.

10.1.3. Consultation with Stakeholders

Consultations with stakeholders and other I&APs were done through telephones and emails. Kindly refer to appendix 4.2 and 4.7.

10.1.4. Issues and Responses

The comments and response report is included as part of the appendices of this report. Kindly refer to appendix 4.8.

II. ENVIRONMENTAL IMPACT DETERMINATION AND EVALUATION

An environmental impact is defined as a change in the environment, be it the physical, chemical, biological, cultural and or socio-economic environment. Any impact can be related to certain aspects of human activities in this environment and this impact can be either positive or negative. It could also affect the environment directly or indirectly and the effect of it can be cumulative.

11.1 Methodology to Assess the Impacts

To assess the impacts on the environment, the process has been divided into two main phases namely the construction and operational phases. The activities present in these two phases have been studied to identify and predict all possible impacts.

In any process of identifying and recognising impacts, one must recognise that the determination of impact significance is inherently an anthropocentric concept. Duinker and Beanlands, (1986) in DEAT 2002, Thompson (1988), (1990) in DEAT 2002 stated that the significance of an impact is an expression of the cost or value of an impact to society.

However, the tendency is always towards a system of quantifying the significance of the impacts so that it is a true representation of the existing situation on site. This has been done by using wherever possible, legal and scientific standards which are applicable.

The significance of the aspects/impacts of the process have been rated by using a matrix derived from Plomp (2004) and adapted to some extent to fit this process. These matrixes use the consequence and the likelihood of the different aspects and associated impacts to determine the significance of the impacts.

The consequence matrix use parameters like severity, duration and extent of impact as well as compliance to standards. Values of I-5 are assigned to the parameters that are added and averaged to determine the overall consequence. The same process is followed with the likelihood that consists of two parameters namely frequency and probability. The overall consequence and the overall likelihood are then multiplied to give values ranging from I to 25. These values as shown in the following table are then used to rank the significance.

Table 2: Significance Ratings

Significance	Low	Low- Medium	Medium	Medium- High	High
Overall Consequence X Overall Likelihood	1-4.9	5-9.9	10-14.9	15-19.9	20-25

Table 3: Description of the parameters used in the matrixes

SEVERITY		
Low	Low cost/high potential to mitigate. Impacts easily reversible, non	
	- harmful insignificant change/deterioration or disturbance to	
	natural environments.	
Low-medium	Low cost to mitigate small/ potentially harmful moderate	
	change/deterioration or disturbance to natural environment.	
NA 10		
Medium	Substantial cost to mitigate. Potential to mitigate and potential to	
	reverse impact. Harmful Significant change/ deterioration or disturbance to natural environment.	
	distuibance to natural environment.	
Medium-high	High cost to mitigate. Possible to mitigate great/very harmful, very	
8	significant change/deterioration or disturbance to natural	
	environment.	
High	Prohibitive cost to mitigate. Little or no mechanism to mitigate.	
	Irreversible. Extremely harmful Disastrous change/deterioration or	
	disturbance to natural environment.	
DURATION		
Low	Up to one month	
Low-medium	One month to three months	
Medium	Three months to one year	
Medium-high	One to ten years	
High	Beyond ten years	
EXTENT		
Low	Project area	
Low-medium	Surrounding area	
Medium Medium-high	Within Bushbuckridge Local Municipality Within Ehlanzeni District Municipality	
High	Regional, National and International	
FREQUENCY	regional, i vacional and internacional	
Low	Once a year or once during operation	
Low-medium	Once in 6 months	
Medium	Once a month	
Medium-high	Once a week	
High	Daily	
PROBABILITY		
Low	Almost never/ almost impossible	
Low-medium	Very seldom/ highly unlikely	
Medium	Infrequent/ unlikely/ seldom	
Medium-high	Often/ Regularly/ Likely/ Possible	
High	Daily/ Highly likely/ definitely	
COMPLIANCE		

The following criteria are used during the rating of possible impacts.		
Low	Best practise	
Low-medium	Compliance	
Medium	Non-compliance/ conformance to Policies etc. – Internal	
Medium-high	Non-compliance/ conformance to Legislation etc. – External	
High	Directive, prosecution of closure or potential for non-renewal of	
	licences or rights	

12. KEY ENVIRONMENTAL IMPACTS

Table 4: Possible environmental impacts identified

Environmental Issues	Possible Cause	Potential Impacts	
Air Pollution and	l Noise		
Smoke	Vehicle emissionsFires	Health problemsAir pollution	
Dust	 During construction Vehicle operation on roads Vegetation clearing Fumes from vehicles 	Public nuisanceNoise pollution	
Noise	 Fumes from machinery Construction machinery and vehicles Presence of construction camp Operation noise (music and people) 		
Environmental Issues Water Quality	Possible Cause	Potential Impacts	
Pollution of water sources	 Spillage of fuel & oil from vehicles Spillage of building material e.g. cement etc. Migration of contaminants off the site Solid waste in storm water Littering 	 Pollution of surface and groundwater Health risk Lower water quality Soil degradation Erosion 	
Silt deposition in surface water Pollution from	 Erosion risk due to increased run-off from built up area Erosion from cleared areas during construction Leakages of system and incorrect 	• Siltation	

Environmental Issues Water Quantity Impact on amount of water	 Inadequate measures to prevent sewage spillages Overflow of sewage to groundwater Possible Cause Over-utilisation of available water 	Lose scarce resource Increased pressure on
resources Available		ground water supply sources
Environmental Issues	Possible Cause	Potential Impacts
Land/ Soil Degra	dation	
Soil contamination and degradation	 Spillages of oil, chemicals from machinery & vehicles Removal of vegetation during clearing for construction Sewage spillages Erosion due to increased runoff from built-up areas Increased erosion of drainage channels Site clearing during construction 	 Soil degradation Loss of topsoil Dust formation Erosion
Environmental	Possible Cause	Potential Impacts
Issues		
Biodiversity		
Decline in fauna and flora diversity	 Clearing of site for construction Pollution of soil Pollution of water resources Physical establishment of development Loss of habitat due to establishment of development 	 Loss of biodiversity Loss of habitat. Negative impact on biodiversity Negative impact on rare /endangered/endemic species and habitats
Environmental	Possible Cause	Potential Impacts
Issues		
Cultural / Herita	~	
Possible loss of heritage sites	Damage / loss during constructionDamage / loss during operation	Possible loss of cultural heritage

Environmental	Possible Cause	Potential Impacts
Issues Visual Impact		
Impact of the	The physical existence of the	Negative impact on
proposed	development.	landscape quality
development of	·	character
sense of place.		Negative impact on
		sense of place
Visual impact	Construction site and buildings	Obstruction
	Lights at night	Visual intrusion
	Presence of new development.	Public nuisance
	Overhead power lines.	
Environmental	Possible Cause	Potential Impacts
Issues		
Health and Safet	у	
Security	Influx of people to area including	• Loss of safe and
	construction workers and others after	secure environment
	completion	Threat to health
Fires	Accidental fires	Danger to human life
	Burning of waste	
	Cooking with fires	
Environmental	Possible Cause	Potential Impacts
Issues	1	
Socio-Economic Impact from		Land will no longer be
change of land use	business, institutional, educational and	used for agriculture
from agriculture	public open spaces	used for agriculture
to township	ривне орен зрасез	
Impact of the	Noise from construction activities	Nuisance and
residential and	Dust generated by construction vehicles	disruption
other	and from site preparation	Noise pollution
development on	The visual impact of lights.	Air pollution
adjacent	The visual impact of residential and	Negative visual impact
landowners	other units (business, institutional etc.)	
Impacts related	Location of construction camp	Adverse impact on
to the		the environment
establishment		

of a construction	Environmental impacts of construction	• Resentment from
camp with	activities e.g. spillage of hazardous liquids	neighbouring
accommodation	such as oil and fuel onto the soil surface	residents
accommodation		residents
	Accommodation of construction teams	
	on site	
	• Littering, accidental fires, collecting of	
	firewood and poaching	
	 Undesirable visitors to the area 	
Impact ground	The presence of a large work force and	• Soil and water
and water	equipment and machinery during	pollution
pollution	construction causing littering and	
from littering and	dumping refuge and builder's rubble on	
waste disposal	site.	
during	Construction activities from heavy	
construction and	vehicles and machinery	
operational	The construction of structures such as	• Safety risks for
phases	open trenches and earth heaps might	motorists,
·	also hold safety risks for people.	passengers,
	also fiold safety risks for people.	pedestrians and
		residents of the area
	A L L C LL C Har C	
	A lack of proper ablution facilities for	• Soil and water
	temporary workers during construction.	pollution
		Unhygienic conditions
		 Health risk
Impact from the	The development, construction and	Pollution from
provision of	provision of infrastructure services	sanitation systems
structures and		 Pollution of water
infrastructure		resources
services		Negative visual impact
		of overhead power
		lines and electricity
		supply and waste
		removal
		Soil erosion as a
		result of the
		result Of the

		construction of
		internal roads and
		water reticulation
		networks
Job creation	Temporary jobs during construction	Positive impact – job
	phase	creation
	Permanent jobs during the operation	
	phase	
	New housing	

These key areas of impacts were further explored to detail the impacts, the impact ratings and mitigation measures. The following specialist investigations were conducted and used in assessing the environmental impacts of the different activities that form part of the development.

- Ecological / Biodiversity Impact Assessment
- Heritage Impact Assessment
- Geotechnical Investigation
- Civil Engineering Services Report (roads, water, and solid waste)
- Floodline Determination Report
- Electrical Services Report
- Traffic Impact Assessment Report
- Storm Water Management Plan

13. COMPARATIVE ASSESSMENT OF THE IMPLICATIONS OF PROPOSED ACTIVITY AND IDENTIFIED ALTERNATIVES:

13.1. Advantages of the proposed activity and alternatives

- The proposed development will eliminate the scarcity of accommodation by provide housing and related services for the local community
- Temporary and permanent employment opportunities for the locals will be created
- The implementation of this activity will contribute greatly on the socio-economic transformation and growth of the municipality
- The establishment of this township will help prevent land invasions

13.2. Disadvantages of the proposed activity and alternatives

- Domestic animal grazing land will be converted to residential area
- Water use, waste, sanitation and other impacts will be impacted should they not be managed correctly. This can lead to extra environmental degradation



14. CONCLUSION

The purpose of this scoping report is to address all the comments and issues received from the competent authority, stakeholder, interested and affected parties. This also serves as a basis to provide the competent authority with preliminary information regarding the potential impacts and scope of the development. It must be noted that this document is submitted as the final scoping report. This report is part of an application that was lodged in terms of Section 24(5) of the National Environmental Management Act (No. 107 of 1998), in respect of the identified triggered listed activities. The competent authority is therefore respectfully requested to evaluate and consider this Final Scoping Report.

FINAL SCOPING REPORT FOR THE PROPOSED TOWNSHIP ESTABLISHMENT ON THE REMAINDER OF PORTIONS I AND 2 OF THE FARM SEVILLE 224 KU (GREATER SEVILLE EXTENSION 2), BUSHBUCKRIDGE LOCAL MUNICIPALITY, MPUMALANGA PROVINCE

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