

**CONSULTATION SCOPING REPORT FOR THE  
PROPOSED TOWNSHIP ESTABLISHMENT ON  
PORTIONS 24 AND 28 OF MOHLABA'S  
LOCATION 567 LT, TZANEEN, LIMPOPO  
PROVINCE**

**JULY 2022**

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## DOCUMENT CONTROL RECORD

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<b>Report Title</b>	Scoping report for the proposed township establishment on portions 24 and 28 of Mohlaba's Location 567 LT, Tzaneen, Limpopo Province
<b>Document ID</b>	Consultation / Draft
<b>Proponent / Applicant</b>	Greater Tzaneen Local Municipality
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<b>DOCUMENT APPROVAL</b>	
<b>EAP Name</b>	Mankaleme M. Magoro
<b>Signature</b>	

## 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.....07 July 2022.....

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## **ABBREVIATIONS AND ACRONYMS**

EIA	Environmental Impact Assessment
EIR	Environmental Impact Report
EAP	Environmental Assessment Practitioner
SR	Scoping Report
CSR	Consultation Scoping Report
FSR	Final Scoping Report
CBA	Critical Biodiversity Area
ECA	Ecological Support Area
PAES	Protected Areas Expansion Strategy
SWSA	Strategic Water Source Area
EA	Environmental Authorisation
RoD	Record of Decision
CA	Competent Authority
GTLM	Greater Tzaneen Local Municipality
MDM	Mopani District Municipality
S & EIR	Scoping and Environmental Impact Report
EMP	Environmental Management Plan
Ptn	Portion
Ha	Hectares
PoS	Plan of Study of EIA
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
IDP	Integrated Development Plan
EMP	Environmental Management Plan
EMPr	Environmental Management Plan Report
LDEDET	Limpopo Department of Economic Development, Environment and Tourism
NEMA	National Environmental Management Act
LEMA	Limpopo 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

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## **GLOSSARY OF TERMS**

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

**Cumulative impacts:** 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

**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 and is referred to as an applicant once such application for environmental authorisation has been submitted

**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.

**National Protected Area Expansion Strategy:** means South Africa's national strategy for expansion of the protected area network, led by the National Department responsible for environmental affairs and developed in collaboration with national and provincial conservation authorities. The NPAES sets targets for protected area expansion, provides maps of the most important areas for protected area expansion, and makes recommendations on mechanisms for protected area expansion. Focus areas for protected area expansion are identified in the NPAES. They are large, intact, unfragmented areas of high importance for land-based protected area expansion, suitable for the creation or expansion of large protected areas.

**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.

## **I. INTRODUCTION**

Leago Environmental Solutions was appointed by Vaxumi Consulting Town Planners on behalf of the Greater Tzaneen Local Municipality as Independent Environmental Assessment Practitioners to undertake the environmental impact assessment i.e., scoping and environmental impact assessment process for the purpose of establishing a township. The proposed township will be situated on Portions 24 and 28 Mohlaba's Location 567 LT, in Tzaneen, Limpopo Province. The proposed development site measures 147.47 hectares in extent and is expected to yield 2248 sites / stands.

### **I.1. Purpose of the Report**

This Scoping Report has been prepared in accordance with the EIA Regulations published in Government Notice No. R 326 of 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" (i.e., those activities that have been recognised as having a detrimental impact on the environment) require environmental authorisation from the Competent Authority (Limpopo Department of Economic Development, Environment and Tourism). Government Notice No. R327, Listing Notice 1 and Notice No. R325, Listing Notice 2 (NEMA EIA Regulations, 2017) identifies the following listed activities associated with the proposed township establishment that requires environmental authorisation by means of a full EIA (Scoping and Environmental Impact Reporting).

#### **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 147.47 hectares of indigenous vegetation.*

#### **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 a road with a reserve of 14 and 20 meters.*

#### **Listing Notice 3: Activity 12**

*"The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan (e) Limpopo (ii) within critical biodiversity areas identified in bioregional plans.*

**Applicability to the project:** *According to the web-based environmental screening tool report, the*

*proposed project area is located within a critical biodiversity area (CBA 1 & CBA2).*

## **1.2. EIA Process**

The EIA process is controlled through Regulations published under Government Notice No. R326 of 2017 along with the associated guidelines promulgated in terms of Chapter 5 of the National Environmental Management Act (No. 107 of 1998).

**Three phases in the Environmental Impact Assessment process are typically recognised:**

- 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, the applicant and the subsequent submission and registration of the project with the Competent Authority: Limpopo Department of Economic Development, Environment and Tourism. An application is completed and will be submitted as well as the web based environmental screening report, to the Competent Authority.

#### **(a) Details of the Competent Authority**

The application will be directed to:

#### **Limpopo Department of Economic, Development, Environment and Tourism**

Environmental Impact Management

Evridiki Towers

20 Hans van Rensburg Street

0700

Tel: 015 293 8300

### **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 provide focus for the EIA phase. At the end of the scoping phase a report shall be compiled, known as a scoping report. As per the EIA Regulations, this consultation scoping report is compiled and will be circulated amongst the stakeholders, interested and affected parties to provide them with the opportunity to comment on the proposed activity.

### **(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.

This consultation scoping report will be sent to the stakeholders, interested and affected parties for observation and comments for a period of 30 days.

### **(b) Final Scoping Report**

Once this report (consultation scoping report) has been reviewed by the Competent Authority, stakeholders and interested & affected party's comments will be collected and the report will be amended as appropriate and finalised. The final scoping report will then be submitted together with the plan of study for environmental impact assessment to the Competent Authority. Once the 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. EIA Phase**

During the EIA phase, a consultation / draft environmental impact assessment report (EIAR), which takes into consideration all the identified key issues and associated impacts from the scoping phase, together with a draft environmental management plan, which specifies the way proposed mitigation measures are to be implemented, will be produced by Leago Environmental Solutions. The consultation / draft EIAR will be made available to the registered 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 consideration and decision making.

## 2. DETAILS OF THE PROPOSED ACTIVITY

### 2.1. Location of the Proposed Activity

The proposed township will be situated on Portions 24 and 28 Mohlaba's Location 567 LT, in Tzaneen, Limpopo Province, which is located approximately 115 km from Polokwane. The site is located roughly at the following GPS coordinates: 23°52'45.62"S; 30°15'34.24" E. Figure 1 below depicts the locality of the project area.

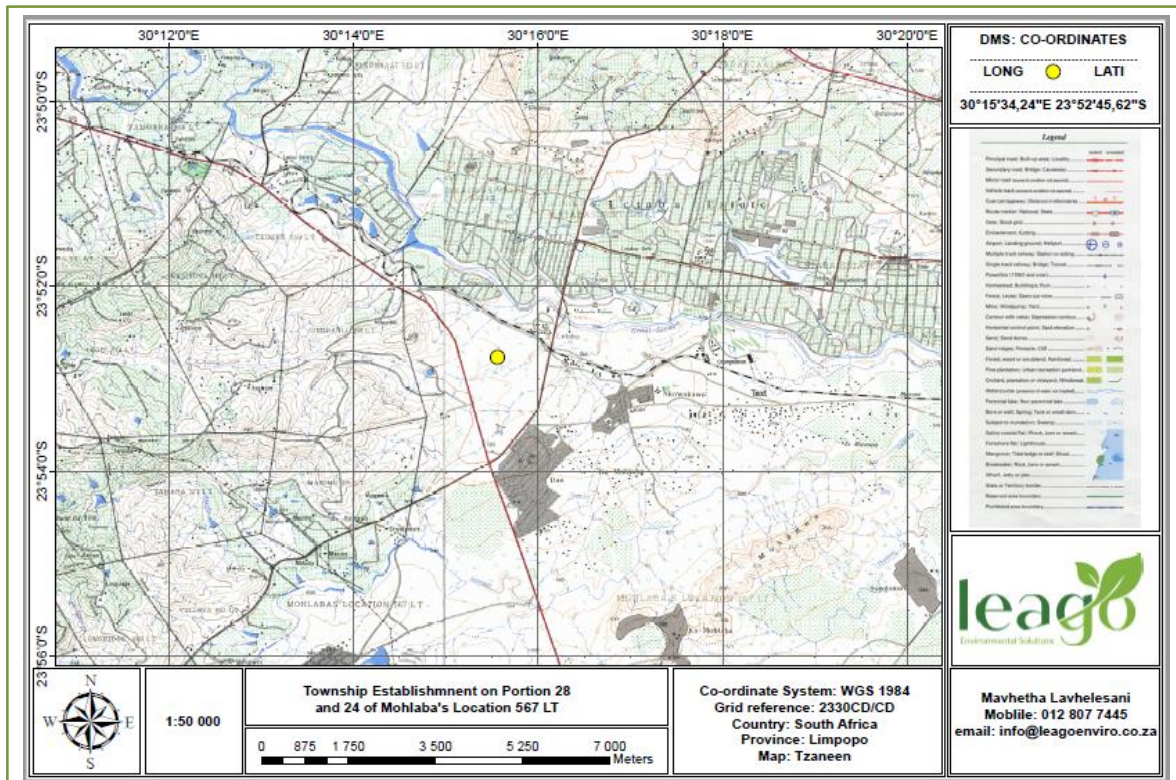


Figure 1: Locality map of the proposed development site

### 2.2. Description of the Proposed Activity

The proposed development / activity is a township establishment which will entail 2248 stands / sites.

The proposed township establishment entails 2248 sites for:

- 1584 Residential 1
- 435 Residential 2
- 113 Residential 3
- 46 Business 1
- 25 Business 2
- 4 Municipal
- 1 Industrial
- 35 Institutional

- 5 Public Open Spaces

Figure 2 below indicates the layout plan of the proposed township establishment.

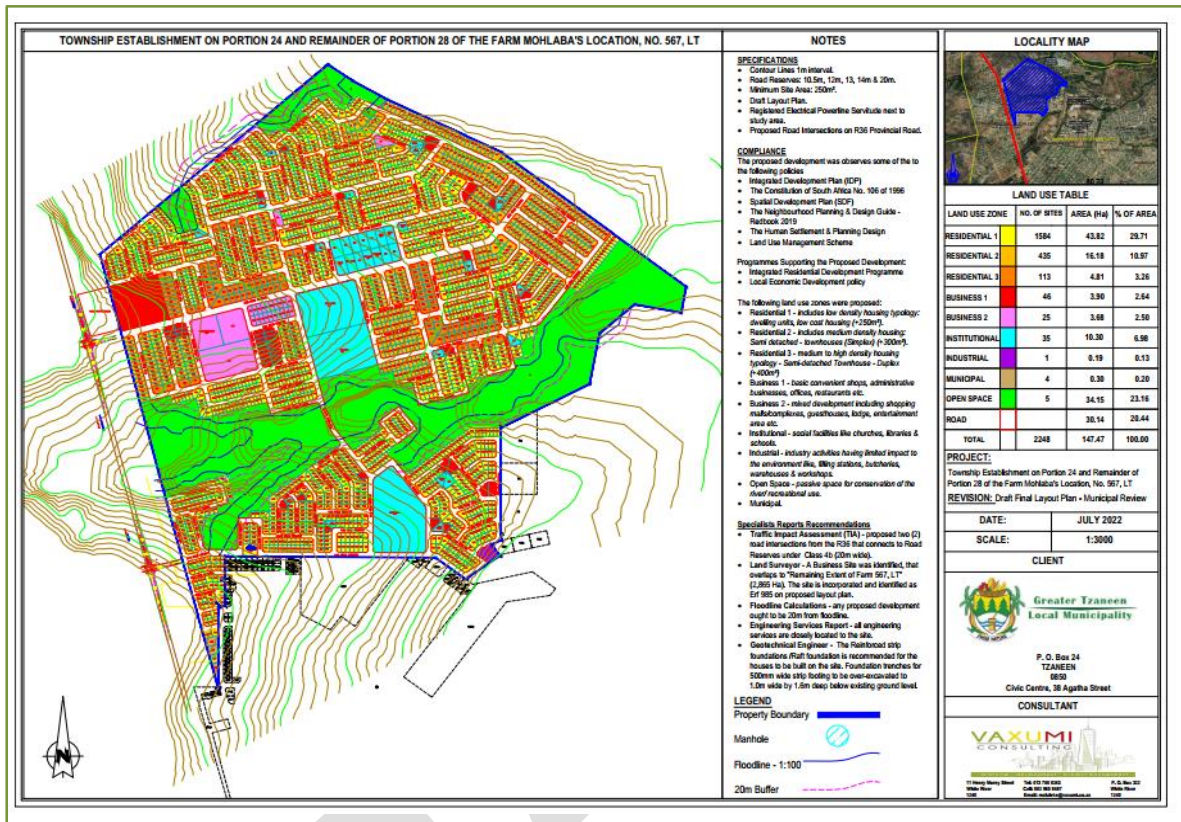


Figure 2: Township layout plan

## 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 via road R36, internal streets, and road D673 to Letaba Hospital.

### 2.3.2. Water

The proposed development site does not have water reticulation, however there are existing bulk water lines currently servicing areas next to the proposed development site.

### 2.3.4. Solid Waste

A landfill situated nearest to the proposed development site must be used to dispose solid waste. The local municipality should also be responsible for collecting and disposing the solid waste. If the local municipality is not able to provide this service, a private company will need to be appointed by the applicant for the service.

### **2.3.5. Electricity**

There is an existing electricity supply infrastructure in the vicinity of Mohlaba which could be utilised to supply the proposed development, subject to approval from the power authority (Eskom). An Electrical Services Report which addresses the specifications of electricity infrastructure network and connection points required to service the proposed township has been conducted and it will be submitted with the EIA report.

## **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 (no-go 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 a 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 Mohlaba's Location were taken into consideration with the design philosophy. Various township layout alternatives were considered, also taking terrain and environmental constraints into account, hence the current design / layout plan being the result, however there is a possibility of a layout alternative that will still meet the objective of the project scope.

### **3.1.4. 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 following table presents the most pertinent relevant legislation to the proposed development.

	<b>ACT</b>	<b>SUMMARY</b>	<b>RELEVANCE TO DEVELOPMENT</b>
5.1	<b>Constitution (Act 108 of 1996)</b>	Everyone has the right to an unharmed environment which must be protected for the benefit of future generations. This is achieved through measures such as; preventing pollution and degradation, promoting conservation, promoting sustainable development and sustainable use of natural resources.	Ensure conservation principles are promoted, that the proposed activity is ecologically sustainable and will not result in pollution and ecological degradation.
	<b>Limpopo Environmental Management Act (No. 7 of 2003)</b>	The purpose of this act is to consolidate and amend environmental management legislation assigned to the Province; and to provide for matters incidental thereto.	The proposed development should be in accordance with the LEMA principles and where this is not possible, reasons for deviation must be strongly motivated.
5.2	<b>National Environment Management Act (No. 107 of 1998)</b>	NEMA creates the legal framework that ensures that environmental rights are guaranteed. The core principal relates to promoting sustainable development. The duty of care concept extends to prevent, control and rehabilitate pollution and degradation. Failure to perform these duties may lead to criminal prosecution. NEMA also introduces the EIA Regulations.	The proposed development should be in accordance with the NEMA principals, where this is not possible, reasons for deviation must be strongly motivated.
5.3	<b>National Water Act (No. 36 of 1998)</b>	The purpose of this Act is to ensure that the nation's water resources are protected, managed and controlled in an environmentally sustainable way. Also, relevant to the proposed activity is Section 19 of the Act which deals with pollution prevention.	Any water use must be investigated, specified, registered and licensed. Developers are responsible for taking measures to prevent pollution of water resources, undertaking necessary clean up procedures and controlling waste.
5.4	<b>National Environmental Management: Waste</b>	Listed activities require Environmental Authorization in the form of a Basic Assessment or full Scoping and EIA.	The proposed development falls below thresholds.

	<b>Management Act (No.95 of 2008)</b>		
<b>5.5</b>	<b>National Heritage Resources Act (No. 25 of 1999)</b>	The protection of archaeological and paleontological sites and material is the responsibility of a provincial heritage resources authority and all archaeological objects are property of the state.	Any artifacts uncovered during the construction phase must be reported to SAHRA.
<b>5.6</b>	<b>Conservation of Agricultural Resources Act (No. 43 of 1983)</b>	CARA aims to conserve the natural agricultural resources by combating and preventing erosion, weeds and invader plants. No land user must affect the natural flow pattern of run- off water.	The developer / applicant will be responsible for weed and invader control, storm water control must also be implemented.

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## 6. DESCRIPTION OF THE RECEIVING ENVIRONMENT

### 6.1 Physical Environment

#### 6.1.1 Climate

The climate in Tzaneen is warm and temperate, most rainfall occurs mainly during mid-summer around January and the lowest in July. The average annual temperature is 19.7 °C.

#### 6.1.2 Geology

According to the findings of the geotechnical investigation report, the proposed development site is located within the lithologies dominated by metamorphic charnockite rocks, which is anyorthopyroxene bearing quartz-feldspar rock formed at high temperature and pressure.

#### 6.1.3 Hydrology

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

#### 6.1.4 Topography

The topography of the proposed development is generally flat. It is however slightly steep towards the west to the east and even gentle slopes on the north and eastern side.

### 6.2. Biological Environment

#### 6.2.1. Terrestrial Biodiversity

The National web-based environmental screening tool map on terrestrial biodiversity is provided as Figure 3 below. The map indicates that the project area falls within a Critical Biodiversity Area 1 & 2, Ecological Support Area 2, Protected Areas Expansion Strategy and a Strategic Water Source Area.

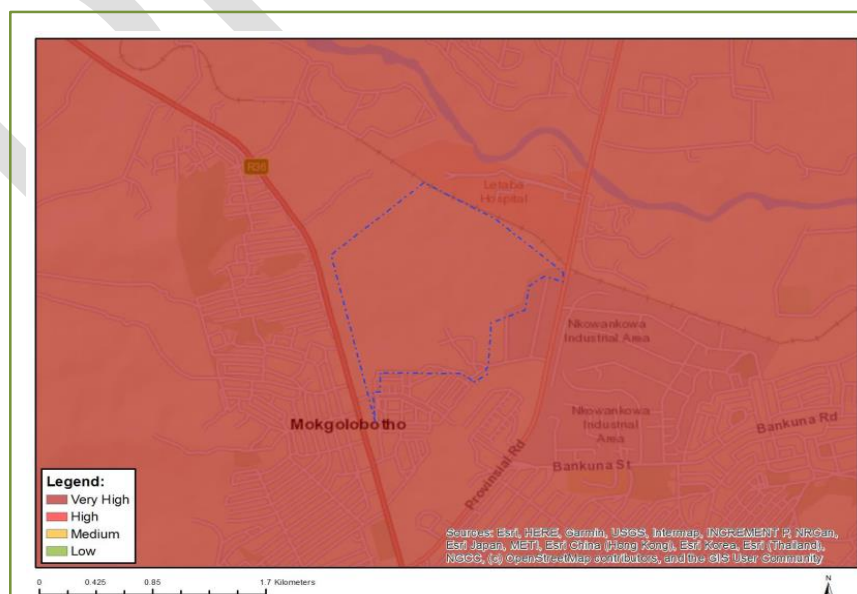


Figure 3: Terrestrial biodiversity theme sensitivity

### **6.2.2. Fauna**

According to the findings of the web-based environmental screening tool report, the project area is located on an area of medium-high sensitivity relative animal species theme sensitivity.

### **6.2.3. Archaeological and Cultural Heritage**

Based on the findings of the web-based environmental screening tool report, the proposed project area is located on an area of low archaeological and cultural heritage theme sensitivity. The proposed development site is however located on an area of medium paleontological sensitivity.

## **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 run-off 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.
- 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 and operational phases 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 system and culverts 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 to the air quality in the area. These impacts and mitigation measures will be addressed in the impact table hereunder 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 villages / townships of Mokgolobotho and Nkowankowa.

### **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 and Ecological Impact Assessment**

No Biodiversity/ Ecological Impact Assessment was conducted with regard to the proposed development site.

#### **8.1.2. Heritage Aspects**

No Heritage Impact assessment was conducted to assess the conditions or availability of heritage features such as remains from the Stone Age, Iron Age or Historical Period or places designated for spiritual or social gatherings, historical and/or modern graves on site. Any discovery of heritage remains on the terrain will be reported to the archaeologist and SAHRA and may require further mitigation measures.

#### **8.1.3. Floodline**

According to the findings of the Floodline Determination Report, the project area is affected by flood water within the 1:100 period 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 PROJECT**

- The proposed development area is strategically located adjacent to the existing townships / villages settlement of Mokgolobotho, Nkowankowa and Dan.



- 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
- Attract people through creation of a conducive environment for business, industrial and institutional development.

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

- There will be sites for business opportunities for residents.
- Furthermore, 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 Advertisement**

The proposed development will be advertised in the local newspaper to inform people about the project and request them to register their names and comment on the proposed development.

#### **10.1.2. On - Site Notices**

Site notices will be placed at various points on and around the proposed development site.

Notices regarding the background information / application of the proposed development will also be hand delivered / sent to the landowners next to the proposed development site.

### **10.1.3. Consultation with Stakeholders**

Consultations with stakeholders and other I&APs will be done through telephones and emails.

### **10.1.4. Issues and Responses**

This report is on a draft phase, therefore no comments have been received from the stakeholders and I&APs so far that needed to be addressed by the EAP.

## **11. 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 phase and the Operational phase. 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 1-5 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 1 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
<b>Overall Consequence X Overall Likelihood</b>	1-4.9	5-9.9	10-14.9	15-19.9	20-25

Table 3: Description of the parameters used in the matrixes

<b>SEVERITY</b>	
<b>Low</b>	Low cost/high potential to mitigate. Impacts easily reversible, non – harmful insignificant change/deterioration or disturbance to natural environments.
<b>Low-medium</b>	Low cost to mitigate small/ potentially harmful moderate change/deterioration or disturbance to natural environment.
<b>Medium</b>	Substantial cost to mitigate. Potential to mitigate and potential to reverse impact. Harmful Significant change/ deterioration or disturbance to natural environment.
<b>Medium-high</b>	High cost to mitigate. Possible to mitigate great/very harmful, very significant change/deterioration or disturbance to natural environment.
<b>High</b>	Prohibitive cost to mitigate. Little or no mechanism to mitigate. Irreversible. Extremely harmful Disastrous change/deterioration or disturbance to natural environment.
<b>DURATION</b>	
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
<b>EXTENT</b>	
Low	Project area
Low-medium	Surrounding area
Medium	Within Greater Tzaneen Local Municipality
Medium-high	Within Mopani District Municipality
High	Regional, National and International
<b>FREQUENCY</b>	
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
<b>PROBABILITY</b>	
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
<b>COMPLIANCE</b>	
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: The following possible environmental impacts were identified

Environmental Issues	Possible Cause	Potential Impacts
<b>Air Pollution and Noise</b>		
Smoke	<ul style="list-style-type: none"> <li>• Vehicle emissions</li> <li>• Fires</li> </ul>	<ul style="list-style-type: none"> <li>• Health problems</li> <li>• Air pollution</li> <li>• Public nuisance</li> <li>• Noise pollution</li> </ul>
Dust	<ul style="list-style-type: none"> <li>• During construction</li> <li>• Vehicle operation on roads</li> <li>• Vegetation clearing</li> </ul>	
Fumes	<ul style="list-style-type: none"> <li>• Fumes from vehicles</li> <li>• Fumes from machinery</li> </ul>	
Noise	<ul style="list-style-type: none"> <li>• Construction machinery and vehicles</li> <li>• Presence of construction camp</li> <li>• Operation noise (music and people)</li> </ul>	
<b>Environmental Issues</b>		
<b>Water Quality</b>		
Pollution of water sources	<ul style="list-style-type: none"> <li>• Spillage of fuel &amp; oil from vehicles</li> <li>• Spillage of building material e.g. cement etc.</li> <li>• Migration of contaminants off the site</li> <li>• Solid waste in storm water</li> <li>• Littering</li> </ul>	<ul style="list-style-type: none"> <li>• Pollution of surface and groundwater</li> <li>• Health risk</li> <li>• Lower water quality</li> <li>• Soil degradation</li> <li>• Erosion</li> <li>• Siltation</li> </ul>
Silt deposition in surface water	<ul style="list-style-type: none"> <li>• Erosion risk due to increased run-off from built up area</li> <li>• Erosion from cleared areas during construction</li> </ul>	
Pollution from	<ul style="list-style-type: none"> <li>• Leakages of system and incorrect</li> </ul>	

sanitation system	<p>management of sanitation system</p> <ul style="list-style-type: none"> <li>• Inadequate measures to prevent sewage spillages</li> <li>• Overflow of sewage to groundwater</li> </ul>	
<b>Environmental Issues</b>	<b>Possible Cause</b>	<b>Potential Impacts</b>
<b>Water Quantity</b>		
Impact on amount of water resources Available	<ul style="list-style-type: none"> <li>• Over-utilisation of available water</li> </ul>	<ul style="list-style-type: none"> <li>• Lose scarce resource</li> <li>• Increased pressure on ground water supply sources</li> </ul>
<b>Environmental Issues</b>	<b>Possible Cause</b>	<b>Potential Impacts</b>
<b>Land/ Soil Degradation</b>		
Soil contamination and degradation	<ul style="list-style-type: none"> <li>• Spillages of oil, chemicals from machinery &amp; vehicles</li> <li>• Removal of vegetation during clearing for construction</li> <li>• Sewage spillages</li> <li>• Erosion due to increased runoff from built-up areas</li> <li>• Increased erosion of drainage channels</li> <li>• Site clearing during construction</li> </ul>	<ul style="list-style-type: none"> <li>• Soil degradation</li> <li>• Loss of topsoil</li> <li>• Dust formation</li> <li>• Erosion</li> </ul>
<b>Environmental Issues</b>	<b>Possible Cause</b>	<b>Potential Impacts</b>
<b>Biodiversity</b>		
Decline in fauna and flora diversity	<ul style="list-style-type: none"> <li>• Cleaning of site for construction</li> <li>• Pollution of soil</li> <li>• Pollution of water resources</li> <li>• Physical establishment of development</li> <li>• Loss of habitat due to establishment of development</li> </ul>	<ul style="list-style-type: none"> <li>• Loss of biodiversity</li> <li>• Loss of habitat.</li> <li>• Negative impact on biodiversity</li> <li>• Negative impact on rare /endangered/ endemic species and habitats</li> </ul>
<b>Environmental Issues</b>	<b>Possible Cause</b>	<b>Potential Impacts</b>
<b>Cultural / Heritage</b>		
Possible loss of heritage sites	<ul style="list-style-type: none"> <li>• Damage / loss during construction</li> <li>• Damage / loss during operation</li> </ul>	<ul style="list-style-type: none"> <li>• Possible loss of cultural heritage</li> </ul>
<b>Environmental Issues</b>	<b>Possible Cause</b>	<b>Potential Impacts</b>
<b>Visual Impact</b>		
Impact of the proposed development of sense of place.	<ul style="list-style-type: none"> <li>• The physical existence of the development.</li> </ul>	<ul style="list-style-type: none"> <li>• Negative impact on landscape quality character</li> </ul>

		<ul style="list-style-type: none"> <li>Negative impact on sense of place</li> </ul>
Visual impact	<ul style="list-style-type: none"> <li>Construction site and buildings</li> <li>Lights at night</li> <li>Presence of new development.</li> <li>Overhead power lines.</li> </ul>	<ul style="list-style-type: none"> <li>Obstruction</li> <li>Visual intrusion</li> <li>Public nuisance</li> </ul>
<b>Environmental Issues</b>	<b>Possible Cause</b>	<b>Potential Impacts</b>
<b>Health and Safety</b>		
Security	<ul style="list-style-type: none"> <li>Influx of people to area including construction workers and others after completion</li> </ul>	<ul style="list-style-type: none"> <li>Loss of safe and secure environment</li> <li>Threat to health</li> <li>Danger to human life</li> </ul>
Fires	<ul style="list-style-type: none"> <li>Accidental fires</li> <li>Burning of waste</li> <li>Cooking with fires</li> </ul>	
<b>Environmental Issues</b>	<b>Possible Cause</b>	<b>Potential Impacts</b>
<b>Socio-Economic Impacts</b>		
Impact from change of land use from agriculture to township	<ul style="list-style-type: none"> <li>Change of land use to residential, business, institutional, educational, public open spaces and streets</li> </ul>	<ul style="list-style-type: none"> <li>Impact negatively on agricultural production</li> <li>Land will no longer be used for agriculture</li> </ul>
Impact of the residential and other development on adjacent landowners	<ul style="list-style-type: none"> <li>Noise from construction activities</li> <li>Dust generated by construction vehicles and from site preparation</li> <li>The visual impact of lights.</li> <li>The visual impact of residential and other units (business, institutional etc.)</li> </ul>	<ul style="list-style-type: none"> <li>Nuisance and disruption</li> <li>Noise pollution</li> <li>Air pollution</li> <li>Negative visual impact</li> </ul>
Impacts related to the establishment of a construction camp with accommodation	<ul style="list-style-type: none"> <li>Location of construction camp</li> <li>Environmental impacts of construction activities e.g. spillage of hazardous liquids such as oil and fuel onto the soil surface</li> <li>Accommodation of construction teams on site</li> <li>Littering, accidental fires, collecting of firewood and poaching</li> <li>Undesirable visitors to the area</li> </ul>	<ul style="list-style-type: none"> <li>Adverse impact on the environment</li> <li>Resentment from neighbouring residents</li> </ul>
Impact ground and water pollution from littering and waste disposal	<ul style="list-style-type: none"> <li>The presence of a large work force and equipment and machinery during construction causing littering and dumping refuse and builder's rubble on site.</li> </ul>	<ul style="list-style-type: none"> <li>Soil and water pollution</li> </ul>

during construction and operational phases	<ul style="list-style-type: none"> <li>• Construction activities from heavy vehicles and machinery</li> </ul>	
	<ul style="list-style-type: none"> <li>• The construction of structures such as open trenches and earth heaps might also hold safety risks for people.</li> </ul>	<ul style="list-style-type: none"> <li>• Safety risks for motorists, passengers, pedestrians and residents of the area</li> </ul>
	<ul style="list-style-type: none"> <li>• A lack of proper ablution facilities for temporary workers during construction.</li> </ul>	<ul style="list-style-type: none"> <li>• Soil and water pollution</li> <li>• Unhygienic conditions</li> <li>• Health risk</li> </ul>
Impact from the provision of structures and infrastructure services	<ul style="list-style-type: none"> <li>• The development, construction and provision of infrastructure services</li> </ul>	<ul style="list-style-type: none"> <li>• Pollution from sanitation systems</li> <li>• Pollution of water resources</li> <li>• Negative visual impact of overhead power lines and electricity supply and waste removal</li> <li>• Soil erosion as a result of the construction of internal roads and water reticulation networks</li> </ul>
Impact on archaeological /cultural / social features	<ul style="list-style-type: none"> <li>• The development of structures and infrastructure services for residential and other sites</li> <li>• Clearing of construction sites</li> <li>• Construction of access roads</li> <li>• Excavation of trenches for the installation of underground pipelines and cables</li> </ul>	<ul style="list-style-type: none"> <li>• Negative impact on cultural or heritage resources</li> </ul>
Job creation Ownership	<ul style="list-style-type: none"> <li>• Temporary jobs during construction phase</li> <li>• Permanent jobs during operation</li> <li>• New housing</li> </ul>	<ul style="list-style-type: none"> <li>• Positive impact – job creation</li> </ul>

These key areas of impacts were further explored and described below 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.

- Geotechnical Investigation
- Engineering Services Report (roads, water, and solid waste)
- Floodline Determination Report
- Electrical Services Report

- Traffic Impact Assessment Report

### **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 region
- 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
- The cumulative impacts that the development will have in terms of pollution and other impacts can lead to extra environmental degradation, especially if not managed correctly.

### **14. CONCLUSION**

The purpose of this consultation / draft scoping report is 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 a draft scoping report. The Competent Authority is therefore respectfully requested to evaluate and consider this draft scoping report. This report is part of an application that is lodged in terms of Section 24(5) of the National Environment Management Act (No. 107 of 1998), in respect of the identified triggered listed activities.



**CONSULTATION SCOPING REPORT FOR THE PROPOSED TOWNSHIP TO BE SITUATED ON PORTIONS 24 AND 28 OF MOHLABA'S LOCATION 567 LT, TZANEEN, LIMPOPO PROVINCE**

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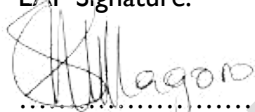
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**JULY 2022**

# **APPENDIX I**

## **Plan of Study of the Environmental Impact Assessment**

**PLAN OF STUDY OF EIA FOR THE PROPOSED  
TOWNSHIP ESTABLISHMENT ON PORTIONS 24  
AND 28 OF MOHLABA'S LOCATION 567 LT,  
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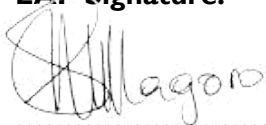
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## **ACRONYMS AND ABBREVIATIONS**

EIA	Environmental Impact Assessment
EAP	Environmental Assessment Practitioner
SR	Scoping Report
EA	Environmental Authorisation
RoD	Record of Decision
CA	Competent Authority
GTLM	Greater Tzaneen Local Municipality
MDM	Mopani District Municipality
S & EIR	Scoping and Environmental Impact Report
EMP	Environmental Management Plan
EMPr	Environmental Management Plan Report
LEDET	Limpopo Department of Economic Development, Environment and Tourism
NEMA	National Environmental Management Act
I & APs	Interested and Affected Parties
PPP	Public Participation Process

## **I. INTRODUCTION**

### **I.1. PROJECT BACKGROUND**

Leago Environmental Solutions has been appointed by Vaxumi Consulting Town Planners on behalf of the Greater Tzaneen Local Municipality as Independent Environmental Assessment Practitioners to undertake an environmental impact assessment process (scoping and environmental impact reporting), for the purpose of establishing a township. The proposed township establishment will be situated on Portions 24 and 28 of Mohlaba's Location 567 LT, in Tzaneen, Limpopo Province. The proposed development site is 147.47 hectares in extent and is expected to yield 2248 stands.

This plan of study of the Environmental Impact Assessment is prepared to meet the requirements for a plan of study as prescribed Appendix 2 (2)(i) of Government Notice R 326, a plan of study for undertaking the environmental impact assessment process to be undertaken, including-

- (i) a description of the alternatives to be considered and assessed within the preferred site, including the option of not proceeding with the activity;
- (ii) a description of the aspects to be assessed as part of the environmental impact assessment process;
- (iii) aspects to be assessed by specialists;
- (iv) a description of the proposed method of assessing the environmental aspects, including a description of the proposed method of assessing the environmental aspects including aspects to be assessed by specialists;
- (v) a description of the proposed method of assessing duration and significance;
- (vi) an indication of the stages at which the competent authority will be consulted
- (vii) particulars of the public participation process that will be conducted during the environmental impact assessment process; and
- (viii) a description of the tasks that will be undertaken as part of the environmental impact assessment process;
- (ix) identify suitable measures to avoid, reverse, mitigate or manage identified impacts and to determine the extent of the residual risks that need to be managed and monitored.

### **I.2. DESCRIPTION OF ALTERNATIVES**

The National Department of Environmental Affairs stresses that the no-go option be considered as a base case against which to measure the relative performance of the other alternatives. The impacts of other alternatives are expressed as changes to the base case or status quo. If considered viable the decision not to act may be considered in the Plan of Study EIA.

The EIA Regulations stipulate that a requirement of the Scoping 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 (no-go 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 / visual) must be considered.

### **1.2.1. FEASIBLE AND REASONABLE ALTERNATIVES CONSIDERED FOR THE PROPOSED ACTIVITY**

#### **1.2.1.1. 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.

#### **1.2.1.2. 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.

#### **1.2.1.3. Design Alternatives:**

The unique character and appeal of Mohlaba’s Location 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.

#### **1.2.1.4. 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.

#### **1.2.1.5. 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.

### **1.3. SPECIALIST STUDIES AND REPORTS**

The identification and assessment of environmental impacts during this scoping phase reveal the following potentially significant environmental aspects which require further detailed assessment:

- **Geotechnical Study:**

The main objective of the investigation was aimed at defining the founding materials and establishing broader geotechnical conditions and their suitability to the proposed development.

- **Traffic Impact Assessment:**

A traffic impact study is undertaken to assess the traffic impact of the proposed development on the adjacent road network around the proposed development.

- **Floodline Determination**

The main objective of the floodline assessment is to check if whether the proposed development/activity is affected by any floodline.

- **Civil Engineering Services**

A report on the civil services, including sewage, solid waste and water is compiled in order to demonstrate the provision of infrastructure required to service the proposed township.

- **Electrical Services Report**

An electrical services report is compiled in order to demonstrate the provision of electrical infrastructure required to service the proposed township.

#### **1.3.1. Geotechnical Study**

This study evaluates the geotechnical characteristics associated with the underlying geology and any geotechnical constraints that might affect structural integrity of the subject property. However, it is also essential to identify engineering properties" potential influence on the design, construction and operation of the intended infrastructures.

The following are some of the objectives of the conducted geotechnical investigation:

- To determine the geology of the site
- To establish in broad terms, the nature and relevant engineering properties of the upper soil and rock strata underlying the site
- To ascertain the soil chemistry including pH determination and electrical conductivity of the soil
- To comment on suitable excavation procedures for the installation of services
- To present general foundation recommendations for the proposed development
- To comment on any other geotechnical aspects as these may affect the development
- Potential geotechnical limiting factors by determining the behaviour and suitability of soil/rocks and their effects on the intended development
- Determine the presence or occurrence of groundwater from the surface to a maximum depth of 3 meters.
- Classification of the site material according to the TRH14 classification system

### **Methodology**

The geotechnical investigation commenced with a desktop study using existing geotechnical databases and geological maps.

**The following information will be reviewed and consulted during the site investigation:**

- National Home Builders Registration Council: Home Builders Manual 2015
- SAICE's Guidelines for Urban Engineering Geological Investigations;
- Geological Map of South Africa from the database of Council For Geoscience: Scale 1: 100 000 Sheet – Geological series 2330CC/CD
- Technical Recommendations for Highways – TRH14 Guidelines for Road Construction Materials by the National Institute for Transport and road research of the Council for Scientific and Industrial Research, (1985)

### **1.3.2. Traffic Impact Assessment**

The traffic impact assessment study is aimed at assessing the traffic impact of the proposed development on the adjacent road network around the proposed development.

### **Methodology**

- Determination of the existing, pre-development traffic volumes and patterns near the development site
- Assess the land use of the proposed development to establish the expected trips to be generated

- Assess any public transport operations in and around the proposed development
- Determination of the post-development, projected traffic volumes and assess its impact on the existing road network
- Provide recommendations on the suitability and safety of the proposed access arrangements
- Recommendations on the infrastructure improvements, if deemed necessary, to accommodate the expected development traffic.

### **1.3.3. Floodline Determination**

The main objective of the floodline assessment was to check if the whether the proposed development will be affected by any floodline.

#### **Methodology**

- Determination of the catchment characteristics.
- Calculation of the floor peaks, using a minimum of three methods.
- Determination of the flood lines.
- Determination of the extent of developable areas through diagrammatic representation.
- Provide a floodline report.

### **1.3.4. Civil Engineering Services**

A report on the civil services, including sewage, solid waste and water is compiled in order to demonstrate the provision of infrastructure required to service the proposed township.

#### **Methodology**

The study focused on the extent of the development to determine the availability of basic bulk infrastructure services required for the proposed development.

### **1.3.5. Electrical Services**

A report on electrical services was conducted to demonstrate the provision of electrical infrastructure required to service the proposed development.

#### **Methodology**

The study focused on the extent of the development to determine the availability of electrical infrastructure services required for the proposed development.

## **2. IMPACT ASSESSMENT METHODOLOGY**

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.

## 2.1. Methodology to assess the Impacts

To assess the impacts on the environment, the process has been divided into two main phases namely the Construction phase and the Operational phase. The activities, products and services 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 1-5 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 1 to 25. These values as shown in the following table are then used to rank the significance.

Table 1: Significance Ratings

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

Table 2: Description of the parameters used in the matrixes

<b>SEVERITY</b>	
<b>Low</b>	Low cost/high potential to mitigate. Impacts easily reversible, non – harmful insignificant change/deterioration or disturbance to natural environments.
<b>Low-medium</b>	Low cost to mitigate small/ potentially harmful moderate change/deterioration or disturbance to natural environment.
<b>Medium</b>	Substantial cost to mitigate. Potential to mitigate and potential to reverse impact. Harmful Significant change/ deterioration or disturbance to natural environment.
<b>Medium-high</b>	High cost to mitigate. Possible to mitigate great/very harmful, very significant change/deterioration or disturbance to natural environment.
<b>High</b>	Prohibitive cost to mitigate. Little or no mechanism to mitigate. Irreversible. Extremely harmful Disastrous change/deterioration or disturbance to natural environment.
<b>DURATION</b>	
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
<b>EXTENT</b>	
Low	Project area
Low-medium	Surrounding area
Medium	Within the Greater Tzaneen Local Municipality
Medium-high	Within the Mopani District Municipality
High	Regional, National and International
<b>FREQUENCY</b>	
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
<b>PROBABILITY</b>	

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
<b>COMPLIANCE</b>	
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

A combination of the above methodologies will be used during the EIA phase of the project to determine the significance of the potential impacts associated with the proposed development as well as the alternatives investigated.

### **3. CONSULTATION WITH THE COMPETENT AUTHORITY: LIMPOPO DEPARTMENT OF ECONOMIC DEVELOPMENT, ENVIRONMENT AND TOURISM**

The competent authority will be consulted during the following steps in the EIA Process:

#### **i. Application:**

- Lodge an EIA application
- The applicant receives confirmation of application (acknowledgement letter) from the Competent Authority

#### **ii. Scoping Phase**

- Site inspection with the Competent Authority
- Public participation process
- Submission of the scoping report including Plan of Study of EIA to the Competent Authority to consider the Scoping Report and the Plan of Study for EIA.
- The Environmental Assessment Practitioner to receive confirmation of acceptance of Scoping Report and / or the Plan of Study for EIA.

### **iii. Environmental Impact Assessment**

- Public participation process
- Submission of the Environmental Impact Assessment (consultation and final) Report to the Competent Authority
- Record of Decision from the Competent Authority.

## **4. PUBLIC PARTICIPATION PROCESS**

### **4.1 Objectives of the Public Participation Process**

The main objectives of the public participation process are to:

- Inform the stakeholders, interested and affected parties of the EIA process
- Provide sufficient background information regarding the proposed development to ensure informed participation
- Create networks and feedback mechanisms whereby stakeholders and I&APs could participate and raise their views (issues, comments and concerns) with regard to the proposed development.

The public participation process would thus ensure that the views of all the registered interested and affected parties would be reflected and considered by the Applicant and the Competent Authority.

### **4.2. Methodology:**

The proposed public participation process for the project will consist of:

#### **4.2.1 Finalisation of Public Participation Report**

The Public Participation Report (comments and response report) would be completed and finalised at the end of the public review period. The report will consist of the following:

- Background of the proposed project
- A description of the public participation process followed
- A list of issues, comments and concerns raised during the public participation process
- Minutes of meeting (if applicable) and written comments received during the public participation process

#### **4.2.2 Making the Draft and Final Reports Available for Public Comment**

The draft EIA report will be made available to the public for their perusal and comment. All the registered I & APs will also be notified of the availability of the report. A 30-day review period is recommended for each of the reports. On completion of the review period, the EAP will update the report in respect of comments received. The draft and final report will be made available in the office or couriered and emailed to registered I&APs and the stakeholders upon request.



The final report will then be presented to the Competent Authority and will also be made available to the public.

#### **4.2.3 Notification of Environmental Authorisation**

Once an environmental authorisation has been issued by the competent authority, the I&APs on the database will be notified of the decision within 14 days of receipt of the decision from the Competent Authority. The full environmental authorisation will be made available to stakeholders, interested and affected parties upon request. The public will also be informed of their right to appeal and the process to follow.

### **5. CONCLUSION**

During the environmental impact assessment phase there are different alternatives considered, and, will be compared in terms of the potential environmental impacts associated with the alternative. Specialist studies will also be undertaken during the EIA phase. All the specialists' recommendations, comments from I&APs and other stakeholders will also be used to determine the final township layout plan of the proposed development so that it has the least environmental impacts.

## **APPENDIX 2**

### **Locality Map**

30°12'0"E

30°14'0"E

30°16'0"E

30°18'0"E

30°20'0"E

DMS: CO-ORDINATES

LONG ● LATI

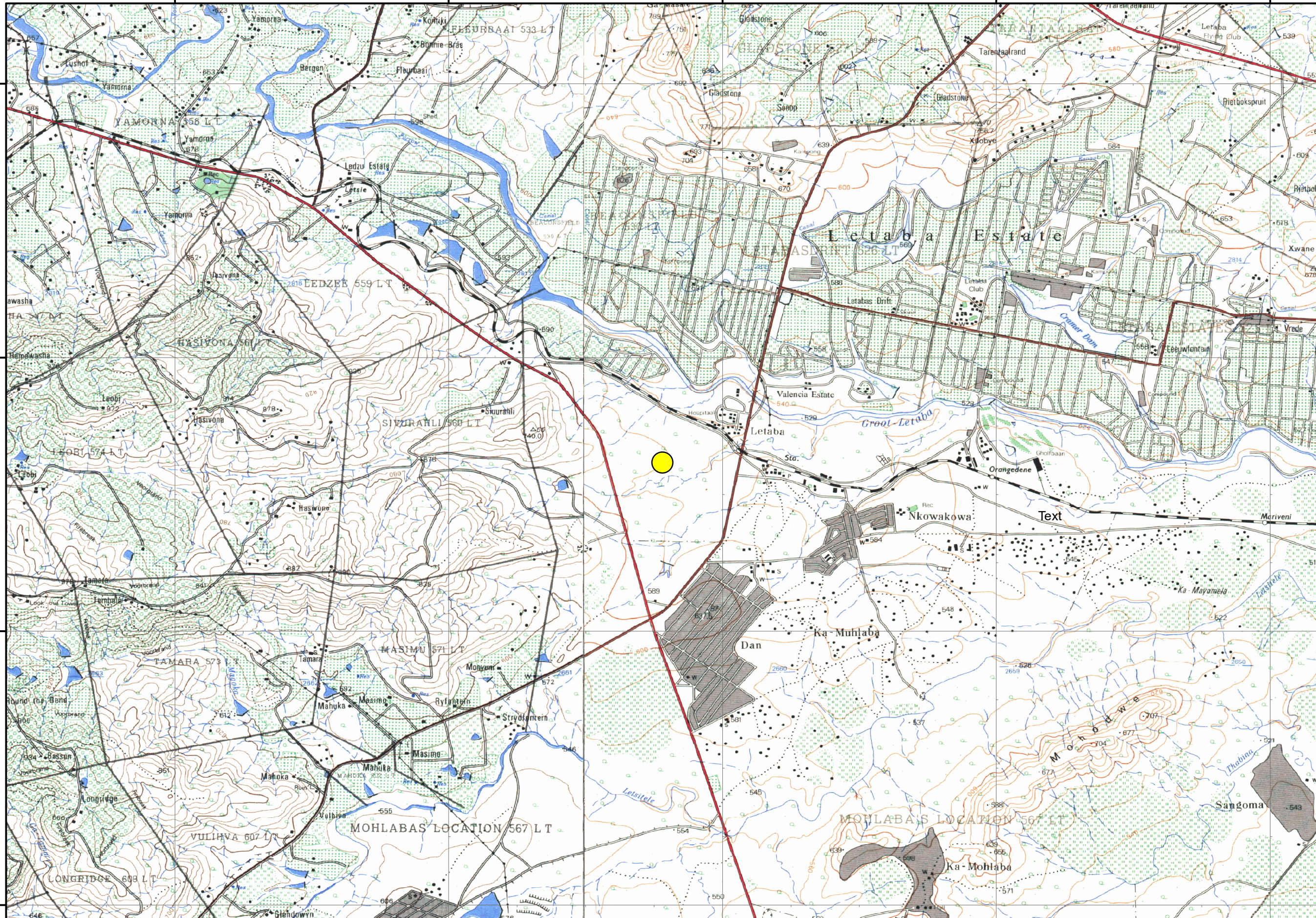
30°15'34,24"E 23°52'45,62"S

23°50'0"S

23°52'0"S

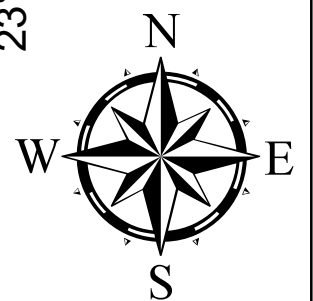
23°54'0"S

23°56'0"S



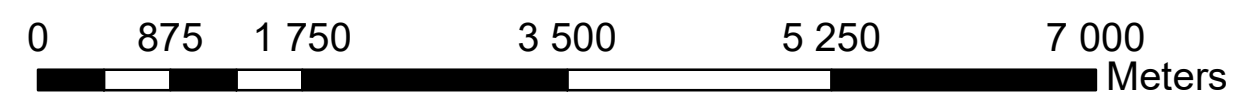
Legend

- Principal road; Built-up area; Locality
- Secondary road; Bridge; Causeway
- Minor road (access & condition not assured)
- Vehicle track (access & condition not assured)
- Dual carriageway; Distance in kilometres
- Route marker: National, State
- Gate; Stock grid
- Embankment; Cutting
- Airport; Landing ground; Heliport
- Multiple track railway; Station or siding
- Single track railway; Bridge; Tunnel
- Powerline (110kV and over)
- Homestead; Building; Ruin
- Fence; Levee; Open cut mine
- Mine; Windpump; Yard
- Contour with value; Depression contour
- Horizontal control point; Spot elevation
- Sand; Sand dunes
- Sand ridges; Pinnacle; Cliff
- Forest, wood or scrubland; Rainforest
- Pine plantation; Urban recreation parkland
- Orchard, plantation or vineyard; Windbreak
- Watercourse (presence of water not implied)
- Perennial lake; Non-perennial lake
- Bore or well; Spring; Tank or small dam
- Subject to inundation; Swamp
- Saline coastal flat; Wreck, bare or awash
- Foreshore flat; Lighthouse
- Mangrove; Tidal ledge or reef; Shoal
- Breakwater; Rock, bare or awash
- Wharf; Jetty or pier
- State or Territory border
- Reserved area boundary
- Prohibited area boundary



1:50 000

Township Establishment on Portion 28 and 24 of Mohlaba's Location 567 LT



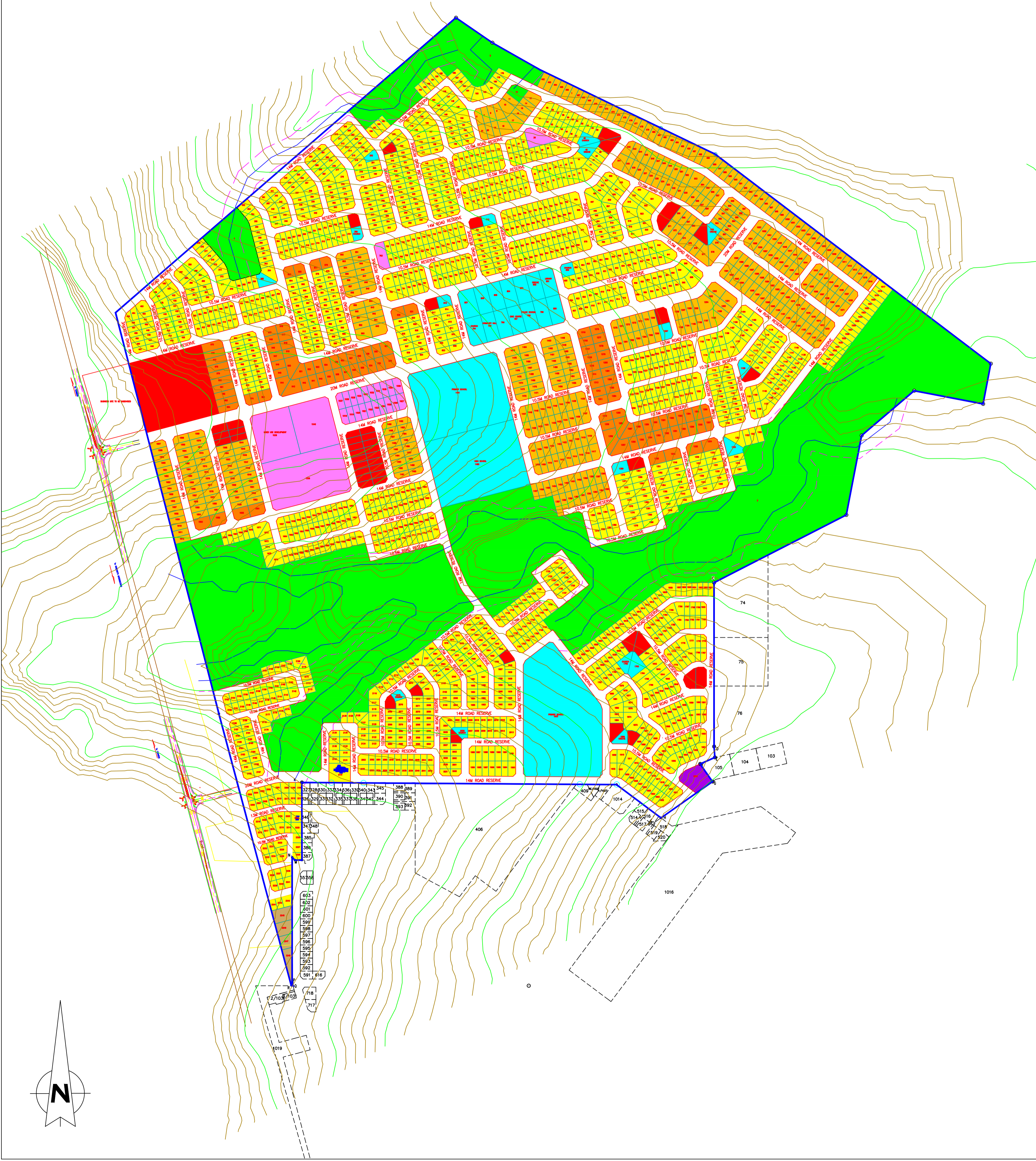
Co-ordinate System: WGS 1984  
 Grid reference: 2330CD/CD  
 Country: South Africa  
 Province: Limpopo  
 Map: Tzaneen

Mavhetha Lavhelesani  
 Mobile: 012 807 7445  
 email: info@leagoenviro.co.za

## **APPENDIX 3**

# **Township Layout Plan**

**TOWNSHIP ESTABLISHMENT ON PORTION 24 AND REMAINDER OF PORTION 28 OF THE FARM MOHLABA'S LOCATION, NO. 567, LT**



**NOTES**

**SPECIFICATIONS**

- Contour Lines 1m interval.
- Road Reserves: 10.5m, 12m, 13, 14m & 20m.
- Minimum Site Area: 250m<sup>2</sup>.
- Draft Layout Plan.
- Registered Electrical Powerline Servitude next to study area.
- Proposed Road Intersections on R36 Provincial Road.

**COMPLIANCE**

The proposed development was observed to some of the following policies

- Integrated Development Plan (IDP)
- The Constitution of South Africa No. 106 of 1996
- Spatial Development Plan (SDF)
- The Neighbourhood Planning & Design Guide - Redbook 2019
- The Human Settlement & Planning Design
- Land Use Management Scheme

Programmes Supporting the Proposed Development:

- Integrated Residential Development Programme
- Local Economic Development policy

The following land use zones were proposed:

- Residential 1 - includes low density housing typology: dwelling units, low cost housing (+250m<sup>2</sup>).
- Residential 2 - includes medium density housing: Semi detached - townhouses (Simplex) (+300m<sup>2</sup>).
- Residential 3 - medium to high density housing typology - Semi-detached Townhouse - Duplex (+400m<sup>2</sup>)
- Business 1 - basic convenient shops, administrative businesses, offices, restaurants etc.
- Business 2 - mixed development including shopping malls/complexes, guesthouses, lodge, entertainment area etc.
- Institutional - social facilities like churches, libraries & schools.
- Industrial - industry activities having limited impact to the environment like, filling stations, butcheries, warehouses & workshops.
- Open Space - passive space for conservation of the river/ recreational use.
- Municipal.

**Specialists Reports Recommendations**

- **Traffic Impact Assessment (TIA)** - proposed two (2) road intersections from the R36 that connects to Road Reserves under Class 4b (20m wide).
- **Land Surveyor** - A Business Site was identified, that overlaps to "Remaining Extent of Farm 567, LT" (2,865 Ha). The site is incorporated and identified as Erf 985 on proposed layout plan.
- **Floodline Calculations** - any proposed development ought to be 20m from floodline.
- **Engineering Services Report** - all engineering services are closely located to the site.
- **Geotechnical Engineer** - The Reinforced strip foundations /Raft foundation is recommended for the houses to be built on the site. Foundation trenches for 500mm wide strip footing to be over-excavated to 1.0m wide by 1.6m deep below existing ground level.

**LEGEND**

- Property Boundary
- Manhole
- Floodline - 1:100
- 20m Buffer

**LOCALITY MAP**



**LAND USE TABLE**

LAND USE ZONE	NO. OF SITES	AREA (Ha)	% OF AREA
RESIDENTIAL 1	1584	43.82	29.71
RESIDENTIAL 2	435	16.18	10.97
RESIDENTIAL 3	113	4.81	3.26
BUSINESS 1	46	3.90	2.64
BUSINESS 2	25	3.68	2.50
INSTITUTIONAL	35	10.30	6.98
INDUSTRIAL	1	0.19	0.13
MUNICIPAL	4	0.30	0.20
OPEN SPACE	5	34.15	23.16
ROAD		30.14	20.44
<b>TOTAL</b>	<b>2248</b>	<b>147.47</b>	<b>100.00</b>

**PROJECT:**

Township Establishment on Portion 24 and Remainder of Portion 28 of the Farm Mohlaba's Location, No. 567, LT

**REVISION:** Draft Final Layout Plan - Municipal Review

<b>DATE:</b>	<b>JULY 2022</b>
<b>SCALE:</b>	<b>1:3000</b>

**CLIENT**



**Greater Tzaneen  
Local Municipality**

P. O. Box 24  
TZANEEN  
0850  
Civic Centre, 38 Agatha Street

**CONSULTANT**



11 Henry Morey Street  
White River  
1240  
Tel: 013 750 0243  
Call: 082 960 9487  
Email: maluleke@vaxumi.co.za  
P. O. Box 322  
White River  
1240

## **APPENDIX 4**

### **Public Participation Process**

## **APPENDIX 4.I**

### **List of Stakeholders / Authorities Identified**



## LIST OF AUTHORITIES AND STAKEHOLDERS IDENTIFIED

Name of Authority / Organisation	Contact Person	Email Address	Tel / Cell No.
South African Heritage Resource Agency (SAHRA)		<a href="http://www.sahra.org.za">www.sahra.org.za</a>	
Greater Tzaneen Local Municipality	Collen Nukeri	<a href="mailto:Collennukeri@tzaneen.gov.za">Collennukeri@tzaneen.gov.za</a>	015 307 8000 / 071 011 7683
Limpopo Department of Public Works	Mahlabela NT	<a href="mailto:MahlabelaNT@dpw.limpopo.gov.za">MahlabelaNT@dpw.limpopo.gov.za</a>	014 718 3000
Department of Water Affairs and Sanitation	M. Nethengwe	<a href="mailto:BothaR@dws.gov.za">BothaR@dws.gov.za</a> <a href="mailto:NethengweM@dws.gov.za">NethengweM@dws.gov.za</a>	015 290 1200
Nkuna Traditional Council	Chauke H.E	<a href="mailto:nkunattcouncil@gmail.com">nkunattcouncil@gmail.com</a>	071 866 3838
Limpopo Department of Agriculture and Rural Development	Mr. M Mabilo	<a href="mailto:MabiloM@agric.limpopo.gov.za">MabiloM@agric.limpopo.gov.za</a>	071 604 2352
Mopani District Municipality	Kgatla Q	<a href="mailto:kgatlaq@mopani.gov.za">kgatlaq@mopani.gov.za</a>	015 811 6300

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Lombardy Business Park  
66 Graham Road  
Pretoria, 0084

Mobile (+27) 81 428 6116

[mankaleme@leagoenviro.co.za](mailto:mankaleme@leagoenviro.co.za)  
[leagoenviro.co.za](http://leagoenviro.co.za)



## **APPENDIX 4.2**

### **Communication to Stakeholders / Authorities**

**info@leagoenviro.co.za**

---

**From:** info@leagoenviro.co.za  
**Sent:** Monday, 11 July 2022 14:39  
**To:** 'MabiloM@agric.limpopo.gov.za'  
**Cc:** 'kabelo@leagoenviro.co.za'  
**Subject:** EIA PUBLIC PARTICIPATION PROCESS : INVITATION TO REGISTER AS AN INTERESTED AND AFFECTED PARTY FOR THE PROPOSED TOWNSHIP ESTABLISHMENT ON PORTIONS 24 AND 28 OF MOHLABA'S LOCATION 567 LT, TZANEEN, LIMPOPO PROVINCE  
**Attachments:** Invitation Letter and Registration Forms.pdf

Good day,

We hope this email finds you well.

We kindly invite you on behalf of the Limpopo Department of Agriculture and Rural Development to register as an interested and affected party for the Environmental Impact Assessment process with regards to the proposed township establishment to be situated on Portions 24 and 28 of Mohlaba's Location 567 LT, in Tzaneen, Limpopo Province.

Please find the attached letter and the registration form.

We hope to hear from you soon.

Regards,

**info@leagoenviro.co.za**

---

**From:** info@leagoenviro.co.za  
**Sent:** Monday, 11 July 2022 14:36  
**To:** 'BothaR@dws.gov.za'; 'NethengweM@dws.gov.za'  
**Cc:** 'kabelo@leagoenviro.co.za'  
**Subject:** EIA PUBLIC PARTICIPATION PROCESS : INVITATION TO REGISTER AS AN INTERESTED AND AFFECTED PARTY FOR THE PROPOSED TOWNSHIP ESTABLISHMENT ON PORTIONS 24 AND 28 OF MOHLABA'S LOCATION 567 LT, TZANEEN, LIMPOPO PROVINCE  
**Attachments:** Invitation Letter and Registration Forms.pdf

Good day,

We hope this email finds you well.

We kindly invite you on behalf of the Limpopo Department of Water and Sanitation to register as an interested and affected party for the Environmental Impact Assessment process with regards to the proposed township establishment to be situated on Portions 24 and 28 of Mohlaba's Location 567 LT, in Tzaneen, Limpopo Province.

Please find the attached letter and the registration form.

We hope to hear from you soon.

Regards,



**Mankaleme Magoro**  
Managing Director

Unit 79, Block 5  
Lombardy Business Park  
66 Graham Road  
Pretoria, 0084

mobile 081 428 6116  
www.leagoenviro.co.za

**info@leagoenviro.co.za**

---

**From:** info@leagoenviro.co.za  
**Sent:** Monday, 11 July 2022 14:34  
**To:** 'MahlabelaNT@dpw.limpopo.gov.za'  
**Cc:** 'kabelo@leagoenviro.co.za'  
**Subject:** EIA PUBLIC PARTICIPATION PROCESS : INVITATION TO REGISTER AS AN INTERESTED AND AFFECTED PARTY FOR THE PROPOSED TOWNSHIP ESTABLISHMENT ON PORTIONS 24 AND 28 OF MOHLABA'S LOCATION 567 LT, TZANEEN, LIMPOPO PROVINCE  
**Attachments:** Invitation Letter and Registration Forms.pdf

Good day,

We hope this finds you well.

We kindly invite you on behalf of the Limpopo Department of Public Works to register as an interested and affected party for the Environmental Impact Assessment process with regards to the proposed township establishment to be situated on Portions 24 and 28 of Mohlaba's Location 567 LT, in Tzaneen, Limpopo Province.

Please find the attached letter and the registration form.

We hope to hear from you soon.

Regards,



**Mankaleme Magoro**  
Managing Director

Unit 79, Block 5  
Lombardy Business Park  
66 Graham Road  
Pretoria, 0084

mobile 081 428 6116  
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**info@leagoenviro.co.za**

---

**From:** info@leagoenviro.co.za  
**Sent:** Monday, 11 July 2022 14:42  
**To:** 'kgatlaq@mopani.gov.za'  
**Cc:** 'kabelo@leagoenviro.co.za'  
**Subject:** EIA PUBLIC PARTICIPATION PROCESS : INVITATION TO REGISTER AS AN INTERESTED AND AFFECTED PARTY FOR THE PROPOSED TOWNSHIP ESTABLISHMENT ON PORTIONS 24 AND 28 OF MOHLABA'S LOCATION 567 LT, TZANEEN, LIMPOPO PROVINCE  
**Attachments:** Invitation Letter and Registration Forms.pdf

Good day,

We hope this email finds you well.

We kindly invite you on behalf of Mopani District Municipality to register as an interested and affected party for the Environmental Impact Assessment process with regards to the proposed township establishment to be situated on Portions 24 and 28 of Mohlaba's Location 567 LT, in Tzaneen, Limpopo Province.

Please find the attached letter and the registration form.

We hope to hear from you soon.

Regards,



**Mankaleme Magoro**  
Managing Director

Unit 79, Block 5  
Lombardy Business Park  
66 Graham Road  
Pretoria, 0084

mobile 081 428 6116  
[www.leagoenviro.co.za](http://www.leagoenviro.co.za)

## **APPENDIX 4.3**

### **Register / Proof of Notice Delivery**

## **APPENDIX 4.4**

# **Proof of Consultation Scoping Report Circulation**

## **APPENDIX 4.5**

### **Proof of Newspaper Publication**



## **APPENDIX 4.6**

### **On-Site Notices**

## **APPENDIX 4.7**

### **Comments Received from Stakeholders and Interested & Affected Parties**

## **APPENDIX 4.8**

### **Comments and Response Report**

# **APPENDIX 5**

## **Site Photographs**





# **APPENDIX 6**

## **Additional Information**

## **APPENDIX 6.1**

### **Details and Expertise of the EAP**