



**Client  
Project**

**Mlangeni Family Trust**

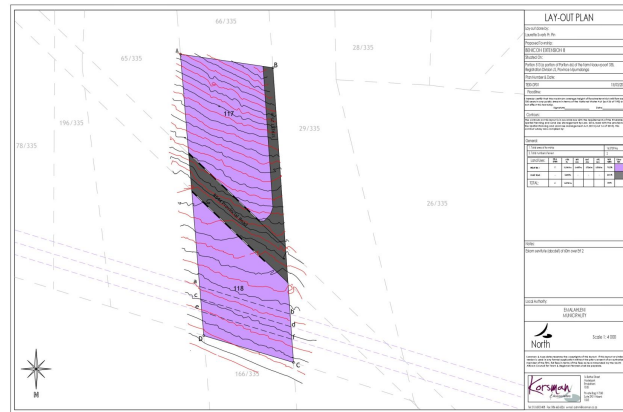
Township Establishment on Portion 513 of the  
Farm Naauwpoort 335 JS for Industrial Use  
Basic Assessment Report

**Date**

April 2021

**Labesh**

ability to sustain



# Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS, for Industrial Use

## Basic Assessment Report

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



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## BASIC ASSESSMENT APPROACH

### Legal Requirements and Legislative Process

As part of the proposed project, certain listed activities may be triggered which is defined under the National Environmental Management Act, Act No. 107 of 1998 (NEMA, 1998), as amended, and the regulations there under will take place.

Relevant listed activities triggered by the proposed development is discussed under Section 5.2 of this Report.

It is the intention of the Basic Assessment Report (BAR) to provide the necessary information pertaining to the proposed project and its associated activities, as required in terms of the Environmental Impact Assessment Regulations, 2014, as amended (EIA Regulations in terms of Chapter 4 of NEMA, 1998) under NEMA, 1998, as amended.

This BAR intends to highlight all information relevant to the proposed township establishment.

The diagram below provides a visual representation of the Basic Assessment approach followed in terms of NEMA, 1998, as amended, and the Environmental Impact Assessment Regulations, 2014, as amended.

	Schedule	Process	Steps Followed
P H A S E  1	Draft BAR:  <b>10/03/2021 – 14/04/2021</b>	<ul style="list-style-type: none"> <li>• Specialist Studies</li> <li>• Impact Assessment and Mitigation measures</li> <li>• Draft BA Report</li> </ul>	<ul style="list-style-type: none"> <li>• Compilation of Draft Basic Assessment Report</li> </ul>
	Draft BAR & PPP:  PPP – Public Participation Process (Public Participation Process in terms of Section 41 of the EIA Regulations 2014): <b>19/03/2021 – 20/04/2021</b>  PPP: Draft BAR Review and Commenting <b>15/04/2021 – 24/05/2021</b>	<ul style="list-style-type: none"> <li>• Background Information Document;</li> <li>• Newspaper Advertisement;</li> <li>• Site Notice Boards; and</li> <li>• Registration of Interested &amp; Affected Parties (I&amp;AP).</li> </ul>	<ul style="list-style-type: none"> <li>• Background Information Document distributed to all I&amp;APs and relevant stakeholders.</li> <li>• Letters to inform I&amp;APs and Stakeholders of the availability of the Draft BA Report for public and Stakeholder comment.</li> <li>• Newspaper Advertisement placed within the Beeld Newspaper.</li> <li>• Site Notice Boards placed along the proposed project site boundary.</li> <li>• Registered post and electronic notifications.</li> <li>• I&amp;APs and Stakeholder comments recorded.</li> <li>• Continued consultation with local authorities and communication to I&amp;APs.</li> </ul>
	Final BAR: <b>15/04/2021 – 24/05/2021</b>	<ul style="list-style-type: none"> <li>• Final BA Report compilation</li> </ul>	<ul style="list-style-type: none"> <li>• Incorporation of comments and issues from I&amp;AP and Stakeholders into BA Report.</li> </ul>
P H A S E  2	Application and Final BAR submission to MDARDLEA: <b>28/05/2021</b>	<ul style="list-style-type: none"> <li>• EIA Application Form</li> <li>• Final BA Report</li> </ul>	<ul style="list-style-type: none"> <li>• Submission of application form and obtaining Project reference number.</li> <li>• Final BAR Report submission to MDARDLEA.</li> </ul>
	Authorities Decision Result: <b>13/09/2021</b>	<ul style="list-style-type: none"> <li>• Authorities Decision Making Stage - 107 days from Final BAR submission.</li> </ul>	<ul style="list-style-type: none"> <li>• Notify I&amp;APs and Stakeholders of government authority's decision on the Environmental Authorisation Application within 14 days (2 Weeks).</li> </ul>
P H A S E  3			



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## DEFINITIONS

### Alternatives

In relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to the-

- a) property on which or location where the activity is proposed to be undertaken;
  - b) type of activity to be undertaken;
  - c) design or layout of the activity;
  - d) technology to be used in the activity; or
  - e) operational aspects of the activity;
- and includes the option of not implementing the activity.

### Application

An application for an Environmental Authorisation (EA).

### Basic Assessment Report

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

### Buffer Area

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

### Building and Demolition Waste

Means waste, excluding hazardous waste, produced during the construction, alteration, repair or demolition of any structure, and includes rubble, earth, rock and wood displaced during that construction, alteration, repair or demolition [NEM:WA, Act No 59 of 2008].

### Cumulative Impact

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

### Dangerous Good

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

### Development

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

**Development footprint**

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

**EAP**

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

**EMPr**

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

**Environment**

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

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

**Environmental Impact**

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

**Environmental Impact Assessment**

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

**General Waste**

Means waste that does not pose immediate hazard or threat to health or to the environment, and includes:

- a) domestic waste;
- b) building and demolition waste;
- c) business waste; and
- d) inert waste [NEM:WA, Act No 59 of 2008].

**Hazardous Waste**

Means any waste that contains organic or inorganic elements compounds that may, owing to the inherent physical, chemical or toxicological characteristics of that waste, have detrimental impact on health and the environment [NEM:WA, Act No 59 of 2008].

**Independent**

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

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

excluding -

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

### **Indigenous Vegetation**

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

### **Industrial Complex**

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

### **Land Use**

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

### **Mitigation**

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

### **Phased Activities**

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

### **Pollution Prevention**

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

### **Public Participation Process**

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

### **Registered Interested and Affected Party**

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

### **Significant Impact**

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

### **Specialist**

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

### **Systematic Biodiversity Plan**

A plan that identifies important areas for biodiversity conservation, taking into account biodiversity patterns (i.e. the principle of representation) and the ecological and evolutionary processes that sustain them (i.e. the principle of



persistence). A systematic biodiversity plan must set quantitative targets/thresholds for aquatic and terrestrial biodiversity features in order to conserve a representative sample of biodiversity pattern and ecological processes.

### **Topography**

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

### **Vegetation**

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

### **Waste**

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

### **Watercourse**

(a) a river or spring;  
(b) a natural channel in which water flows regularly or intermittently;  
(c) a wetland, pan, lake or dam into which, or from which, water flows; and  
any collection of water which the Minister may, by notice in the Gazette, declare to be a watercourse as defined in the National Water Act, 1998 (Act No. 36 of 1998); and  
a reference to a watercourse includes, where relevant, its bed and banks.

### **Wetland**

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

## ABBREVIATIONS

<b>BAR</b>	-	Basic Assessment Report
<b>BID</b>	-	Background Information Document
<b>CBA</b>	-	Critical Biodiversity Area
<b>CRR</b>	-	Comments and Response Report
<b>DWA</b>	-	Department of Water Affairs
<b>DWS</b>	-	Department of Water and Sanitation
<b>EA</b>	-	Environmental Authorisation
<b>EAP</b>	-	Environmental Assessment Practitioner
<b>ECA</b>	-	Environmental Conservation Act of 1989
<b>EIA</b>	-	Environmental Impact Assessment
<b>EIR</b>	-	Environmental Impact Report
<b>EMF</b>	-	Environmental Management Framework
<b>EMP</b>	-	Environmental Management Programme
<b>ESA</b>	-	Ecological Support Area
<b>GN</b>	-	Government Notice
<b>Ha</b>	-	Hectare
<b>I&amp;AP</b>	-	Interested and Affected Party
<b>IWULA</b>	-	Integrated Water Use Licence Application
<b>MBSP</b>	-	Mpumalanga Biodiversity Sector Plan
<b>MDARDLEA</b>	-	Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs
<b>NEMA</b>	-	National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended
<b>NEM:WA</b>	-	National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), as amended
<b>NHRA</b>	-	National Heritage Resources Act, 1999 (Act No. 25 of 1999), as amended
<b>NWA</b>	-	National Water Act, 1998 (Act No. 36 of 1998)
<b>PA</b>	-	Protected Area
<b>R</b>	-	Regulation
<b>SAHRA</b>	-	South African Heritage Resources Agency
<b>SANS</b>	-	South African National Standards

## 1. PROJECT TITLE

Establishment of a New Township on Portion 513 of the Farm Naauwpoort 335 JS for Industrial Use (referred to as Benicon Extension 2).

## 2. APPLICANT DETAILS

<b>Applicant Name</b>	Mlangeni Family Trust
<b>Contact Person</b>	Mr Oscar Nkosi
<b>Postal Address</b>	PO Box 571, Belfast
<b>Telephone Number</b>	013 697 5322
<b>Cell phone Number</b>	082 398 8971
<b>Email Address</b>	Onnkosi35@gmail.com

## 3. ENVIRONMENTAL ASSESSMENT PRACTITIONER DETAILS

<b>Environmental Assessment Practitioner Company</b>	Labesh (Pty) Ltd
<b>Contact Person</b>	Lourens de Villiers
<b>Postal Address</b>	Postnet Box 469, Private Bag X504, Sinoville, 0129
<b>Telephone Number</b>	082 789 6525
<b>Email Address</b>	info@labesh.co.za
<b>Qualifications</b>	B.Sc Earth Science (North West University) Hons B.Sc Geography and Environmental Studies (North West University) M.Sc Water Resource Management (University of Pretoria)
<b>Relevant experience</b>	19 years' experience conducting Environmental Impact Assessment processes

The EAP's Company Details are attached to this report under Appendix E.

## 4. LOCATION OF THE PROPOSED DEVELOPMENT AND ACTIVITIES

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

Property/Land Parcel	21 digit Surveyor General Code	Property size
Portion 513 of the Farm Naauwpoort 335 JS	T0JS0000000033500513	168 000m <sup>2</sup> (16.8Ha)

The project location is approximately 16km South of Emalahleni, in the Emalahleni Local Municipality of the Nkangala District Municipality, Mpumalanga Province. The GPS coordinates for the project site are as follows:

25° 57'58.22"S; 29°16'2.43"E

A locality map, provided on the next page, shows the location of the project property, at an appropriate scale.

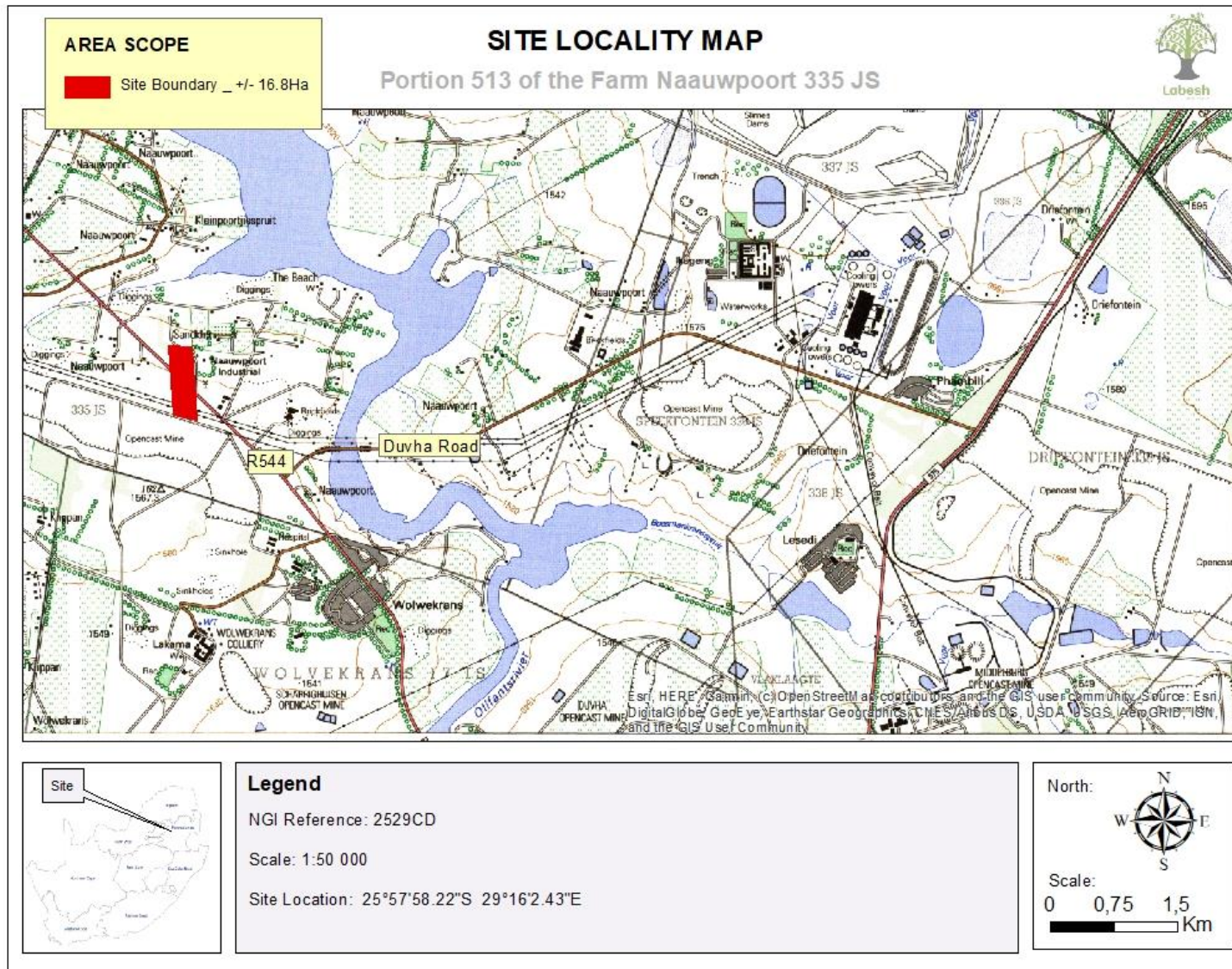


Figure 1: Site Locality Map



The following photographs give an indication of the current status of the project property. Photographs are also given under Appendix B.



## 5. SCOPE OF THE PROPOSED DEVELOPMENT AND ACTIVITIES

### 5.1 Description of the activities to be undertaken

The land, on which the proposed township is to be established, is situated on Portion 513 of the Farm Naauwpoort 335 JS. The land is owned by Mlangeni Family Trust and is approximately 16.9Ha in extent. The proposed township will consist of two sections located on both sides (North and South) of a Provincial Road (R544) that runs from Emalahleni to Bethal.

The intention of the developer is to develop an industrial node that will render both industrial and commercial services to amongst other mines and the power station in the South region of Emalahleni.

**The project site is:** Portion 513 of the Farm Naauwpoort 335 JS, Mpumalanga. The proposed project site falls within the Emalahleni Local Municipality and the Nkangala District Municipality, Mpumalanga Province. The project site is currently an open, vacant property.

#### Existing buildings on site

The following infrastructure is currently present at the project site:

- No infrastructure (buildings) are currently present at the project site. The project site is an open, vacant property.

#### Proposed project

The proposed project will entail the establishment of a township on Portion 513 of the Farm Naauwpoort 335 JS, for Industrial use.

The proposed layout plan makes provision for two industrial erven, Erf 1 with a 6.7234Ha coverage (North of the R544 Provincial road) and Erf 2 with a 6.4607Ha coverage (South of the R544 Provincial road). A private road of approximately 1.4976Ha will be constructed on Erf 1. The existing Provincial road (R544) will be retained as part of the proposed development.

The project property is +/-16.8 hectares in total. Should the development be approved, will the proposed developmental footprint (project site) be approximately 16.8 hectares.

#### 5.1.1 Roads and Storm Water

##### Access

Access to the proposed site will be from the R544 Provincial road. The proposed access will consist of one (1) entrance and one (1) exit lane each being 4m wide.

##### Surface Drainage/ Storm Water Routing

Efficient storm water management infrastructure will include the channelling of storm water between kerbs and into kerb inlets. The kerb inlets will in return route storm water via subsurface conduits to where it will leave the project site through retention dams.

#### 5.1.2 Water Services

Portable water for the proposed township establishment will be extracted from four (4) newly drilled boreholes (groundwater resources) on the property. All boreholes passed a quality test that was performed, some of the boreholes does however require some chlorination to ensure safe drinking water.

### **Water Use**

An approximate of 38 000L (38m<sup>3</sup>) of groundwater will be abstracted from the four (4) boreholes per day. Therefore, a total of 13 870m<sup>3</sup> of groundwater will be abstracted from boreholes per annum for industrial use (38m<sup>3</sup> per day x 365 days). This requires a Water Use Registration with Water Affairs. See: 5.3 Potential Environmental Licensing Required.

### **Water Storage**

The storage of groundwater will be in a reservoir that will be able to store approximately 1000m<sup>3</sup> of water at any given time.

### **5.1.3 Waste**

#### **Domestic Waste**

Domestic waste generated on the premises will be removed and disposed of at a licensed municipal waste facility.

### **5.1.4 Sewerage**

The proposed sewer system is a gravity system which drains to several 'Sewage Package Plants' which is designed according to the phasing of the proposed project. The outflow of the plants will conform to Government's relevant standards for the Olifants River Catchment. The outflow will further be recycled and pumped through a network of pipes to reservoirs. A gravity system will then be used to supply business users with recycled water for either cooling of material or washing of equipment and plant.

### **5.1.5 Electricity**

The installation of civil and electrical services will be positioned according to ELMC's guidelines.

### **5.1.6 Traffic**

A Traffic Study, conducted by EDL Engineers (Pty) Ltd, concluded that access to the proposed industrial development park development can be accommodated off the R544 Provincial road approximately 1.3km north of the intersection of District Road D2771 and the R544. The R544 provincial road, is a busy road which serves +/- 18 000 vehicles per day and will the proposed development add 100 to 150 vehicles per hour. EDL Engineers (Pty) Ltd found that no future upgrades are proposed for the R544 Provincial road. It is however proposed that the access to the development must have road signage and marking which complies with relevant standards.



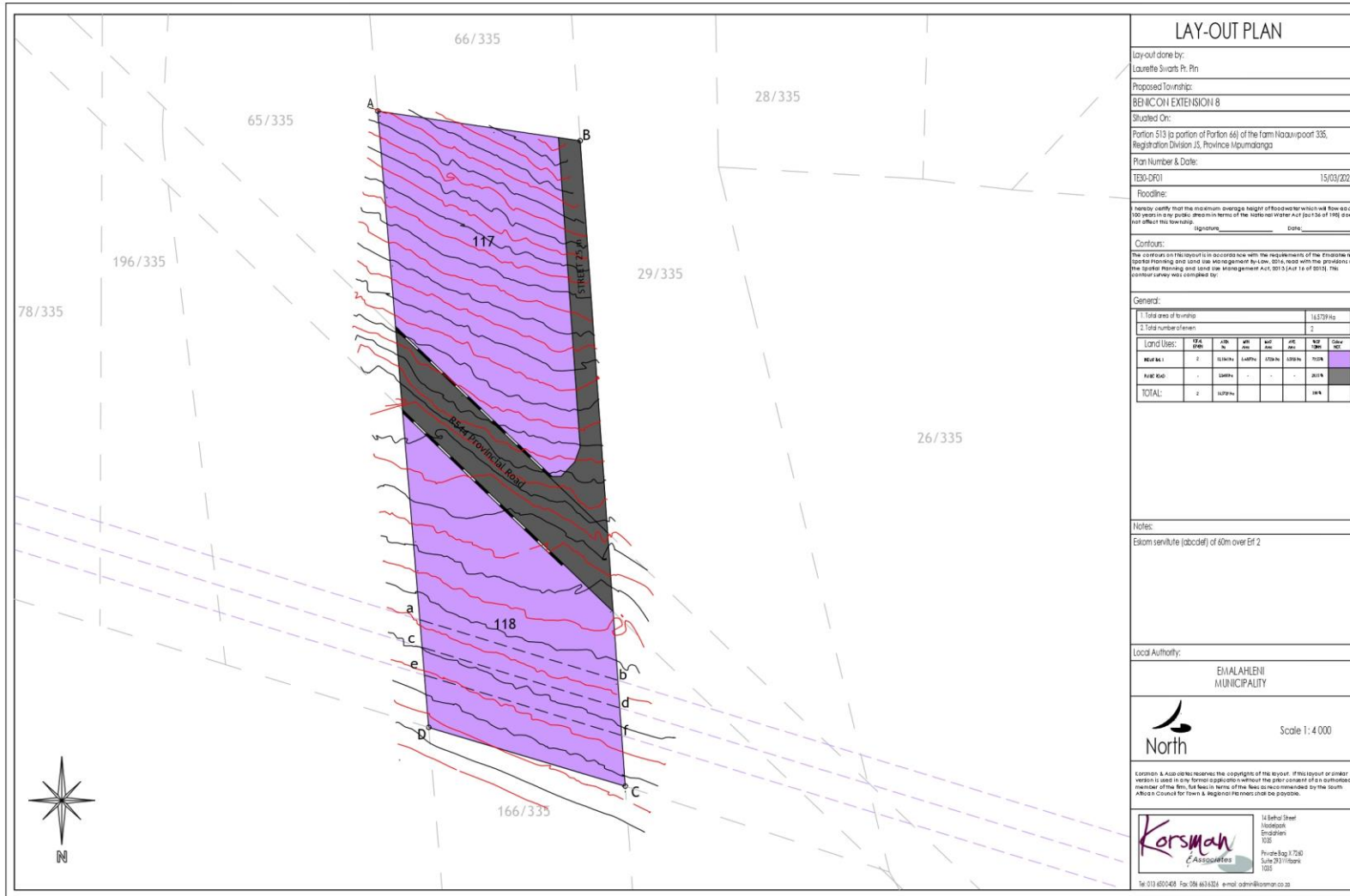


Figure 2: Proposed Site Layout Plan



## 5.2 Listed Activities triggered by the proposed development

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

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

Government Notice and Activity Number	Wording as per the Listing Notice	Description as per the project description relating to each listed activity
<b>Government Notice R327 (Listing Notice 1)</b>		
Government Notice R327 (Listing Notice 1), Activity No. 27	1. The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for (i) the undertaking of a linear activity; or (ii) maintenance purposed undertaken in accordance with a maintenance management plan	The clearance of indigenous vegetation of +/- 16,8Ha (168 000m <sup>2</sup> ) on Portion 513 of the Farm Naauwpoort 335 JS.
Government Notice R327 (Listing Notice 1), Activity No. 28	1. 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 1 hectare; Excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.	Industrial development (on Portion 513 of the Farm Naauwpoort 335 JS) of +/- 16,8Ha (168 000m <sup>2</sup> ) that will occur outside an urban area.
<b>Government Notice R325 (Listing Notice 2)</b>		
No activities triggered in Government Notice R325 (Listing Notice 2)		
<b>Government Notice R324 (Listing Notice 3)</b>		
No activities triggered in Government Notice R325 (Listing Notice 3)		

## 5.3 Potential Environmental Licensing Required

### 5.3.1 Water Use Licence Activities

According to the GN 288 General Authorisations, dated April 2012 (as revised on September 2016), in terms of Section 39 of the NWA, 1998 (Act No. 36 of 1998), a person who takes more than 10m<sup>3</sup> of water from a surface water resource or 10m<sup>3</sup> of water from a groundwater resource per day on average over a year on a property or piece of land or stores water, must register the water use with the responsible authority.

- Groundwater Use

Groundwater will be abstracted from 4 newly drilled boreholes on the proposed project site. All 4 boreholes were tested according to their safety yield and water quality (safe yield values were determined by Geo Pollution Technologies). A total amount of 48 000L per day was calculated as being the combined safe yield figure for all 4 boreholes. Taking up an estimate consumption of 2000L/stand/day with a safety margin of 25%, a total number of 19 stands can be serviced at a total consumption of 38 000L (38m<sup>3</sup>) per day. The water use for Benicon Extension 2 will be 13 870m<sup>3</sup> per annum (this is equivalent to +/- 825,59m<sup>3</sup> per hectare per annum [at 16.8Ha]). This requires a Water Use Registration/License with Water Affairs.

- Catchment Classification

The project site lies within the Olifants River Catchment (Olifants Water Management Area or WMA 2). The property falls within the B11G quaternary drainage region. The depth to the groundwater is between 5-15 metres below ground level with a recharge of 10-50mm per annum (Council for Geoscience, 2011). The aquifers below the site are classified as minor aquifers (DWA, 2012).

Table 2 (groundwater abstraction rates) in GN 288 of 4 April 2012, general authorisations in terms of Section 39 of the National Water Act, 1998 (Act No. 36 of 1998), states that 45m<sup>3</sup> water may be abstracted per hectare per year in the B11G quaternary drainage region.

- Water Storage

Water storage on the proposed site will not exceed the 10 000m<sup>3</sup> limit as outlined in GN 538 of 2016 (water storage at the proposed site will not exceed 1000m<sup>3</sup>).

### **The WULA process**

Regulation 267 of the National Water Act, 1998 (Act No. 36 of 1998) outlines the regulations regarding the procedural requirements for water use license applications and appeals. The WULA process takes an average of 300 cumulative days and is conducted separately from the EIA process. Relevant information will be provided to all registered I&AP as soon as application is submitted to the Department of Water and Sanitation (DWS).

### **5.3.2 Waste**

*As per GN 921 of 29 November 2013, and as amended on 11 October 2017, the Department of Environmental Affairs published a list of waste management activities that have, or are likely to have, a detrimental effect on the environment and in respect of which a waste management license may then be required in accordance with Section 20(b) of the National Environmental Management: Waste Act, 2008 (Act no. 59 of 2008),*

A Waste Management License on Portion 513 of the Farm Naauwpoort 335 JS, may be a possibility in the future, depending on the quantity of waste that will be stored, recycled, treated or disposed of onsite.

## 6. POLICY AND LEGISLATIVE CONTEXT OF THE APPLICATION

The following legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks and instruments are applicable to the proposed development and have been considered in this Basic Environmental Impact Assessment process.

### Legislation

<p><b>The Constitution of South Africa, 1996 (Act No. 108 of 1996), as amended</b></p> <ul style="list-style-type: none"> <li>To establish a Constitution with a Bill of Rights for the RSA.</li> </ul>
<p><b>The National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended</b></p> <ul style="list-style-type: none"> <li>To provide for the integrated management of the environment, and to regulate the 'Duty of Care' Principle.</li> </ul>
<p><b>The Environmental Impact Assessment Regulations of 4 December 2014, as amended</b></p> <ul style="list-style-type: none"> <li>To regulate and control the authorisation of certain listed activities.</li> </ul>
<p><b>The National Heritage Resources Act, 1999 (Act No. 25 of 1999), as amended</b></p> <ul style="list-style-type: none"> <li>To introduce an integrated and interactive system for the management of the national heritage resources.</li> </ul>
<p><b>The National Appeal Regulations</b> – Government Notice No. R.993 of 8 December 2014</p>
<p><b>Promotion of Access to Information Act, 2000 (Act No 2 of 2000 as amended)</b></p> <ul style="list-style-type: none"> <li>To give effect to the constitutional right of access to any information held by the State and any information that is held by another person and that is required for the exercise or protection of any rights.</li> </ul>
<p><b>The National Water Act, 1998 (Act No. 36 of 1998), as amended</b></p> <ul style="list-style-type: none"> <li>To provide for fundamental reform of the law relating to water resources</li> </ul>
<p><b>The National Environmental Management: Waste Act (Act No. 59 of 2008)</b></p> <ul style="list-style-type: none"> <li>To reform the law regulating waste management in order to protect health and the environment by providing reasonable measures for the prevention of pollution and ecological degradation.</li> </ul>
<p><b>The National Environmental Management: Air Quality (Act No. 39 of 2004)</b></p> <ul style="list-style-type: none"> <li>To reform the law regulating air quality to protect the environment by providing reasonable measures for the prevention of pollution. To provide for national norms and standards regulating air quality monitoring, management and control.</li> </ul>
<p><b>The Environment Conservation Act, 1989 (Act No. 73 of 1989)</b></p> <ul style="list-style-type: none"> <li>To control environmental conservation.</li> </ul>

### Plans

Mpumalanga Biodiversity Sector Plan, 2014
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### Guidelines

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

### Spatial Tools

SANBI Biodiversity GIS Database
National Web Based Environmental Screening Tool

## Provincial Development Planning Frameworks

Mpumalanga Spatial Development Framework, 2017, as amended (2018)
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## Municipal Development Planning Frameworks

Emalahleni Local Municipality – Spatial Development Framework, 2015
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Emalahleni Local Municipality – Integrated Development Plan, 2018/2019
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Emalahleni Local Municipality – Local Economic Development Strategy, 2011-2016
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## 7. MOTIVATION FOR THE NEED AND DESIRABILITY OF THE PROPOSED DEVELOPMENT

### 7.1 Need and desirability of the development in the context of the preferred location

#### 7.1.1 The Applicant

Industrial development is the driving force behind economic growth. Economies thrive when industries are growing since there is an increase in job availability, money and opportunities. As populations grow, industries develop and as a result delivers an increased demand for goods and services (www.eaglemountainutah.com).

According to the Emalahleni Integrated Development Plan (IDP) 2018/2019, Emalahleni is known to be one of the most industrialized municipal regions within the Nkangala District. The region consists of mainly underground and opencast coal mines as well as the presence of some of the largest concentration of power stations. The road infrastructure connecting Emalahleni to the surrounding provinces, are well maintained and used by various logistic freight activities to such an extent that the municipality in the Industrial Development and Transportation strategies are very much acknowledged.

As far as industrial activity is concerned, the Emalahleni Municipal area consists of nine major industrial areas amongst which includes the Naauwpoort Industrial Area which is situated on the southern part of the town along the R544 main road. The Mlangeni Family Trust identified the need for industrial development within the Emalahleni region and have the intention to develop an industrial node that can provide both industrial and commercial services to the Emalahleni and greater regions.

The economic, social as well as environmental sustainability factors will be considered with the proposed design, technology and process relating to the township establishment for industrial use.

#### 7.1.2 The Local Community

The leading industries within the Emalahleni Municipality are the mining sector at 59.8%, followed by the utility sector at 8% and thereafter the trading sector at 7.6% (Emalahleni IDP 2018/2019). With both coal mine activities as well as the 3600MW Duvha Power Station located in the South of Emalahleni, it is evident that all the more commercial and industrial activities will take place within the Naauwpoort Industrial area.

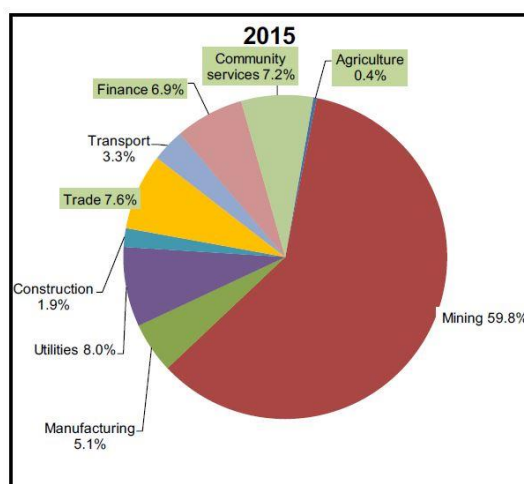


Figure 3: Emalahleni Employment Sector

A number of 150 temporary job opportunities for unskilled labourers during the construction phase and 50 permanent job opportunities during the operational phase will be created as a result of the proposed development.

### **7.1.3 District and Provincial Benefit**

According to the Emalahleni Spatial Development Framework 2015, a 'Regional Industrial Development Strategy (RIDS) was developed which confirmed that the Nkangala District is one of the more successful regions in South Africa with a wide municipal focus on energy generation, mining, agriculture and tourism development. The strongest contributor to the Municipal economy is mining at 35% followed by electricity at 14.4%. It is evident that the industrial sector within the Emalahleni region contributes significantly to the Nkangala District.

The Mpumalanga Province is committed to increase local economic development and job creation in the agriculture, industrial, manufacturing, green economy, tourism and mining sectors. One of the focal points is to create appropriate labour absorbing jobs that will have a positive effect (whether direct or indirect) on the provincial economy and living standards of people (Mpumalanga Spatial Development Framework, 2018).

## **7.2 Need and Desirability in terms of the Guideline on Need and Desirability**

The Department of Environmental Affairs published a Guideline on Need and Desirability in terms of the Environmental Impact Assessment (EIA) Regulations, 2010, in Government Notice 891 of 2014 (20 October 2014).

The table below indicates how the guideline requirements have been addressed.

Table 2: Need and desirability of the proposed project, in terms of the Guideline on Need and Desirability

Requirement	Part where requirement is addressed/response
1. How will this development (and its separate elements/aspects) impact on the ecological integrity of the area? <sup>1</sup>	According to the Mpumalanga Biodiversity Sector Plan, the proposed site is “Heavily Modified” with some “Other Natural Areas” remaining. The Terrestrial CBA Map further indicates that the majority of the project site is designated as “No Natural Habitat Remaining” with some very small areas being “Highly Significant” and of “Least Concern”. The impact of the proposed development on the ecological integrity of the project property has been assessed in Section 9.3 of this report.
1.1. How were the following ecological integrity considerations taken into account?	
1.1.1 <i>Threatened Ecosystems.</i> <sup>2</sup>	<p>The historical vegetation type of the project site was Eastern Highveld Grassland. This vegetation type is considered as “Vulnerable”. However, according to the Mpumalanga Biodiversity Sector Plan the proposed site is “Heavily Modified” with some “Other Natural Areas” remaining. The Terrestrial CBA Map further indicates that the majority of the project site is designated as “No Natural Habitat Remaining” with some very small areas being “Highly Significant” and of “Least Concern”.</p> <p>The impact of the proposed development on the disturbed Eastern Highveld Grassland has been assessed in Section 9.3 of this report.</p>
1.1.2 <i>Sensitive, vulnerable, highly dynamic or stressed ecosystems, such as coastal shores, estuaries, wetlands, and similar systems require specific attention in management and planning procedures, especially where they are subject to significant human resource usage and development pressure.</i> <sup>3</sup>	According to the Hydrology Map, there are no wetlands present on the project site.
1.1.3 <i>Critical Biodiversity Areas (“CBAs”) and Ecological Support Areas (“ESAs”).</i>	According to the 2014 Mpumalanga Biodiversity Sector Plan, the proposed site is “Heavily Modified” with some “Other Natural Areas” remaining.

<sup>1</sup> Section 24 of the Constitution and section 2(4)(a)(vi) of NEMA refer.

<sup>2</sup> Must consider the latest information including the notice published on 9 December 2011 (Government Notice No. 1002 in Government Gazette No. 34809 of 9 December 2011 refers) listing threatened ecosystems in terms of Section 52 of National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004).

<sup>3</sup> Section 2(4)(r) of NEMA refers.

Requirement	Part where requirement is addressed/response
1.1.4 <i>Conservation targets.</i>	<p>According to Carbutt et al., 2011, 36.7% of the Grassland Biome is classified as important for biodiversity conservation.</p> <p>However, according to the 2014 Mpumalanga Biodiversity Sector Plan, the proposed site is “<i>Heavily Modified</i>” with some “<i>Other Natural Areas</i>” remaining. The Terrestrial CBA Map further indicates that the majority of the project site is designated as “<i>No Natural Habitat Remaining</i>” with some very small areas being “<i>Highly Significant</i>” and of “<i>Least Concern</i>”.</p>
1.1.5 <i>Ecological drivers of the ecosystem.</i>	<p>Mitigation measures have been incorporated into the Environmental Management Programme for this project. The measures will aim to mitigate the influence of ecological drivers such as the influence of uncontrolled fires, human activity and alien invasive plant species.</p>
1.1.6 <i>Environmental Management Framework.</i>	<p>No EMF could be found for the Emalahleni Local Municipality.</p>
1.1.7 <i>Spatial Development Framework.</i>	<p>The SDF of Emalahleni finds it evident that a focus must be placed on efficient service delivery, participative planning and ultimately creating an environment conducive to social development and economic growth.</p> <p>The proposed development is in line with the SDF as it will contribute to social development (through the creation of employment opportunities) and ultimately stimulate the local economy of Emalahleni.</p>
1.1.8 <i>Global and international responsibilities relating to the environment (e.g. RAMSAR sites, Climate Change, etc.).<sup>4</sup></i>	<p>The proposed activity do not have significant contributions towards global and international responsibilities.</p>
1.2 How will this development disturb or enhance ecosystems and/or result in the loss or protection of biological diversity? What measures were explored to firstly avoid these negative impacts, and where these negative impacts could not be avoided altogether,	<p>According to the Mpumalanga Biodiversity Sector Plan, the proposed site is “<i>Heavily Modified</i>” with some “<i>Other Natural Areas</i>” remaining. The Terrestrial CBA Map further indicates that the majority of the project site is designated as “<i>No Natural Habitat Remaining</i>” with some very small areas being “<i>Highly Significant</i>” and of “<i>Least Concern</i>”. The impact of the proposed</p>

<sup>4</sup> Section 2(4)(n) of NEMA refers.



Requirement	Part where requirement is addressed/response
<p>what measures were explored to minimise and remedy (including offsetting) the impacts? What measures were explored to enhance positive impacts?<sup>5</sup></p>	<p>development on ecosystems and biological diversity has been assessed in Section 9.3 of this report. Mitigation measures have also been identified and recommended in the EMP to mitigate negative environmental impacts.</p>
<p>1.3 How will this development pollute and/or degrade the biophysical environment? What measures were explored to firstly avoid these impacts, and where impacts could not be avoided altogether, what measures were explored to minimise and remedy (including offsetting) the impacts? What measures were explored to enhance positive impacts?<sup>6</sup></p>	<p>Potential negative environmental impacts associated with the proposed development have been identified and assessed in Section 9.3 of this report. Mitigation measures have also been identified and recommended in the EMP to mitigate negative environmental impacts.</p> <p>The main positive impacts of the proposed development is the generation of employment opportunities, contribution/ expansion to the industrial sector of Emalahleni and ultimately the stimulation of the local economy. To enhance the positive impacts, local people will be employed during the construction and operational phases of the development, as far as possible.</p>
<p>1.4 What waste will be generated by this development? What measures were explored to firstly avoid waste, and where waste could not be avoided altogether, what measures were explored to minimise, reuse and/or recycle the waste? What measures have been explored to safely treat and/or dispose of unavoidable waste?<sup>7</sup></p>	<p>During the construction phase of the proposed development, general waste, such as building rubble and domestic waste will be generated. Some hazardous waste, such as spilt oil or diesel (from vehicles/machinery/equipment) may also be generated. Mitigation measures to minimise, reuse and/or recycle the waste has been recommended in the Environmental Management Programme for the project.</p>
<p>1.5 How will this development disturb or enhance landscapes and/or sites that constitute the nation's cultural heritage? What measures were explored to firstly avoid these impacts, and where impacts could not be avoided altogether, what measures were explored to minimise and remedy (including offsetting) the impacts? What measures were explored to enhance positive impacts?<sup>8</sup></p>	<p>It is not expected for the proposed development to have an impact upon landscapes and/or sites that constitute the nation's cultural heritage. The proposed development entails the removal of approximately 16.8ha of indigenous vegetation. The project property is approximately 16.8ha in total.</p>

<sup>5</sup> Section 24 of the Constitution and Sections 2(4)(a)(i) and 2(4)(b) of NEMA refer.

<sup>6</sup> Section 24 of the Constitution and Sections 2(4)(a)(ii) and 2(4)(b) of NEMA refer.

<sup>7</sup> Section 24 of the Constitution and Sections 2(4)(a)(iv) and 2(4)(b) of NEMA refer.

<sup>8</sup> Section 24 of the Constitution and Sections 2(4)(a)(iii) and 2(4)(b) of NEMA refer.

Requirement	Part where requirement is addressed/response
	<p>According to the National Heritage Resources Act, 1999 (Act No. 25 of 1999), developments that will change the character of a site by more than 5 000m<sup>2</sup> must be brought under the attention of the South African Heritage Resources Agency (SAHRA). Such developments may then require a Heritage Impact Assessment to be conducted (as required by SAHRA). The part of the project property (the site) that will be changed as part of the proposed development is more than 5 000m<sup>2</sup> and a Phase 1 Heritage Impact Assessment may be required for the project site. SAHRA has, however, been notified of the proposed development as part of the general public participation process, seeing as SAHRA is considered to be an Interested and Affected Party of the proposed project, irrespective of the fact that a Heritage Impact Assessment is required or not for the proposed development.</p>
<p>1.6 How will this development use and/or impact on non-renewable natural resources? What measures were explored to ensure responsible and equitable use of the resources? How have the consequences of the depletion of the non-renewable natural resources been considered? What measures were explored to firstly avoid these impacts, and where impacts could not be avoided altogether, what measures were explored to minimise and remedy (including offsetting) the impacts? What measures were explored to enhance positive impacts?<sup>9</sup></p>	<p>The proposed development will likely use small amounts of one or more of the following non-renewable natural resources during the construction phase: diesel, petrol and/or LPG. This includes, for example, diesel and petrol used in construction vehicles. No direct usage of non-renewable natural resources is anticipated during the operational phase of the proposed development.</p> <p>Mitigation measures have been recommended in the Environmental Management Programme for this proposed development, to minimise the use of non-renewable natural resources.</p>
<p>1.7 How will this development use and/or impact on renewable natural resources and the ecosystem of which they are part? Will the use of the resources and/or impact on the ecosystem jeopardise the integrity of the resource and/or system taking into account carrying capacity restrictions, limits of acceptable change, and thresholds? What measures were explored to firstly avoid the use of resources, or if avoidance is not possible, to minimise the use of resources? What measures were taken to ensure</p>	<p>The proposed development will not use or impact upon any renewable natural resources.</p>

<sup>9</sup> Section 24 of the Constitution and Sections 2(4)(a)(v) and 2(4)(b) of NEMA refer.

Requirement	Part where requirement is addressed/response
responsible and equitable use of the resources? What measures were explored to enhance positive impacts? <sup>10</sup>	
1.7.1 <i>Does the proposed development exacerbate the increased dependency on increased use of resources to maintain economic growth or does it reduce resource dependency (i.e. de-materialised growth)? (note: sustainability requires that settlements reduce their ecological footprint by using less material and energy demands and reduce the amount of waste they generate, without compromising their quest to improve their quality of life)</i>	It is not expected for the proposed development to exacerbate the increased use of resources to maintain economic growth. By accommodating the proposed project on the proposed farm portion, both social (employment opportunities) and economic (economy growth) development will be exalted.
1.7.2 <i>Does the proposed use of natural resources constitute the best use thereof? Is the use justifiable when considering intra- and intergenerational equity, and are there more important priorities for which the resources should be used (i.e. what are the opportunity costs of using these resources this the proposed development alternative?)</i>	The resource use is justifiable and should not affect intra- and intergenerational equity. Mitigation measures have also been recommended in the Environmental Management Programme for this proposed development, to minimise the use of resources.
1.7.3 <i>Do the proposed location, type and scale of development promote a reduced dependency on resources?</i>	Yes. The proposed development will create both commercial and industrial services in an already established industrial node (Naauwpoort Industrial Area) and may decrease the distance that consumers need to travel. This will indirectly decrease the use of resources (the fuel that the vehicles consume).
1.8 How were a risk-averse and cautious approach applied in terms of ecological impacts? <sup>11</sup>	<p>According to the Mpumalanga Biodiversity Sector Plan, the proposed site is “Heavily Modified” with some “Other Natural Areas” remaining. The Terrestrial CBA Map further indicates that the majority of the project site is designated as “No Natural Habitat Remaining” with some very small areas being “Highly Significant” and of “Least Concern”.</p> <p>Having the proposed development on land that has historically been modified/disturbed has a lower ecological impact (is risk averse) and is preferable to locating the proposed development on an undisturbed site. Refer also to Section 9.3 of this report.</p>

<sup>10</sup> Section 24 of the Constitution and Sections 2(4)(a)(vi) and 2(4)(b) of NEMA refer.

<sup>11</sup> Section 24 of the Constitution and Section 2(4)(a)(vii) of NEMA refer.

Requirement	Part where requirement is addressed/response
<p>1.8.1 <i>What are the limits of current knowledge (note: the gaps, uncertainties and assumptions must be clearly stated)?</i></p>	<p>The following assumptions have been made:</p> <ul style="list-style-type: none"> <li>• That all research and reference sources or material is accurate and up to date;</li> <li>• That the project information, as provided by the applicant, is correct;</li> <li>• That the proposed development will be constructed as per the layout plans supplied from the applicant; and</li> <li>• That the development will be operated according to the Environmental Management Programme and in a responsible manner.</li> </ul> <p>At this stage, the fossil assemblages that may possibly be present beneath the project site are unknown. This will be determined during the Field Assessment that will be undertaken during commencement of the construction phase of the proposed project.</p>
<p>1.8.2 <i>What is the level of risk associated with the limits of current knowledge?</i></p>	<p>It is Labesh's opinion that the level of risk associated with the limits of current knowledge is <i>low</i>.</p>
<p>1.8.3 <i>Based on the limits of knowledge and the level of risk, how and to what extent was a risk-averse and cautious approach applied to the development?</i></p>	<p>A risk-averse and cautious approach was applied to the Basic Environmental Impact Assessment by keeping in mind the gaps in knowledge and limitations.</p>
<p>1.9 How will the ecological impacts resulting from this development impact on people's environmental right in terms following:<sup>12</sup></p>	
<p>1.9.1 <i>Negative impacts: e.g. access to resources, opportunity costs, loss of amenity (e.g. open space), air and water quality impacts, nuisance (noise, odour, etc.), health impacts, visual impacts, etc. What measures were taken to firstly avoid negative impacts, but if avoidance is not possible, to minimise, manage and remedy negative impacts?</i></p>	<p>Section 8.4 of this report provides a list of the anticipated impacts from the proposed development. Section 8.7 provides some mitigation measures for these impacts and the Environmental Management Programme for the proposed development provides further detailed mitigation measures that should be applied to minimise the impacts on the environment from the development.</p>
<p>1.9.2 <i>Positive impacts: e.g. improved access to resources, improved amenity, improved air or water quality, etc. What measures were taken to enhance positive impacts?</i></p>	<p>The main positive impacts of the proposed development is the generation of employment opportunities, contribution/ expansion to the industrial sector of</p>

<sup>12</sup> Section 24 of the Constitution and Sections 2(4)(a)(viii) and 2(4)(b) of NEMA refer.

Requirement	Part where requirement is addressed/response
	Emalahleni and ultimately the stimulation of the local economy. To enhance the positive impacts, local people will be employed during the construction and operational phases of the development, as far as possible.
1.10 Describe the linkages and dependencies between human wellbeing, livelihoods and ecosystem services applicable to the area in question and how the development's ecological impacts will result in socio-economic impacts (e.g. on livelihoods, loss of heritage site, opportunity costs, etc.)?	It is not expected for the proposed development to result in socio-economic impacts relating to livelihoods, loss of heritage sites and/or opportunity costs.
1.11 Based on all of the above, how will this development positively or negatively impact on ecological integrity objectives/targets/considerations of the area?	Refer to Section 9.3 of this report.
1.12 Considering the need to secure ecological integrity and a healthy biophysical environment, describe how the alternatives identified (in terms of all the different elements of the development and all the different impacts being proposed), resulted in the selection of the "best practicable environmental option" in terms of ecological considerations? <sup>13</sup>	Refer to Section 8.1 of this report.
1.13 Describe the positive and negative cumulative ecological/biophysical impacts bearing in mind the size, scale, scope and nature of the project in relation to its location and existing and other planned developments in the area? <sup>14</sup>	Refer to Section 9.3 of this report.
2.1 What is the socio-economic context of the area, based on, amongst other considerations, the following considerations?	
2.1.1 <i>The IDP (and its sector plans' vision, objectives, strategies, indicators and targets) and any other strategic plans, frameworks of policies applicable to the area,</i>	<p>One of the key performance areas identified by the Emalahleni Local Municipality IDP 2018/19 is to ensure for local economic development.</p> <p>The proposed development will contribute to local economic development as it will create opportunities for both commercial and industrial services in an already established industrial node (Naauwpoort Industrial Area).</p>

<sup>13</sup> Section 2(4)(b) of NEMA refer.

<sup>14</sup> Regulations 22(2)(i)(j), 28(1)(g) and 31(2)(1) in Government Notice No. R. 543 refer.

Requirement	Part where requirement is addressed/response
<p>2.1.2 <i>Spatial priorities and desired spatial patterns (e.g. need for integrated of segregated communities, need to upgrade informal settlements, need for densification, etc.),</i></p>	<p>The proposed development is in line with the Emalahleni Local Municipality Integrated Development Plan (IDP) 2018/19, as discussed previously under point 2.1.1</p>
<p>2.1.3 <i>Spatial characteristics (e.g. existing land uses, planned land uses, cultural landscapes, etc.), and</i></p>	<p>The proposed development is in line with the Emalahleni Local Municipality Integrated Development Plan (IDP) 2018/19, as discussed previously under point 2.1.1</p>
<p>2.1.4 <i>Municipal Economic Development Strategy ("LED Strategy").</i></p>	<p>Some of the strategic objectives presented in the Emalahleni Local Economic Development Strategy (2011-2016), is to:</p> <ul style="list-style-type: none"> <li>• Ensure Economic Sector Growth and Development; and</li> <li>• Socio-Economic Development</li> </ul> <p>The proposed development addresses the following, as also identified in the municipality's LED Strategy:</p> <ul style="list-style-type: none"> <li>• Ensuring economic sector growth and development through stimulation of the local economy (establishing commercial and industrial services within an already established industrial node); and</li> <li>• Ensuring socio-economic development through job creation.</li> </ul> <p>The proposed development is therefor in line with the goals of the municipality's LED Strategy.</p>
<p>2.2 Considering the socio-economic context, what will the socio-economic impacts be of the development (and its separate elements/aspects), and specifically also on the socio-economic objectives of the area?</p>	<p>The following socio-economic impacts of the proposed development have been identified:</p> <ul style="list-style-type: none"> <li>• Generation of a number of job opportunities; and</li> <li>• Potential increase in crime due to the influx of workers, especially during the construction phase.</li> </ul> <p>Job creation is a socio-economic objective of the area.</p>

Requirement	Part where requirement is addressed/response
<p>2.2.1 <i>Will the development complement the local socio-economic initiatives (such as local economic development (LED) initiatives), or skills development programs?</i></p>	<p>Some of the strategic objectives presented in the Emalahleni Local Economic Development Strategy (2011-2016), is to:</p> <ul style="list-style-type: none"> <li>• Ensure Economic Sector Growth and Development; and</li> <li>• Socio-Economic Development</li> </ul> <p>The proposed development addresses the following, as also identified in the municipality's LED Strategy:</p> <ul style="list-style-type: none"> <li>• Ensuring economic sector growth and development through stimulation of the local economy (establishing commercial and industrial services within an already established industrial node); and</li> <li>• Ensuring socio-economic development through job creation.</li> </ul> <p>The proposed development is therefor in line with the goals of the municipality's LED Strategy.</p>
<p>2.3 How will this development address the specific physical, psychological, developmental, cultural and social needs and interests of the relevant communities?<sup>15</sup></p>	<p>The proposed development will address the following specific need of the community:</p> <ul style="list-style-type: none"> <li>• The provision of employment opportunities.</li> </ul>
<p>2.4 Will the development result in equitable (intra- and inter-generational) impact distribution, in the short- and long-term?<sup>16</sup> Will the impact be socially and economically sustainable in the short- and long-term?</p>	<p>It is expected for the proposed development to result in equitable impact distributions in the short- and long-term as well as to be socially and economically sustainable in the short- and long-term.</p>
<p>2.5 In terms of location, describe how the placement of the proposed development will:<sup>17</sup></p> <p>2.5.1 <i>result in the creation of residential and employment opportunities in close proximity to or integrated with each other,</i></p>	<p>It is estimated that the proposed development will generate 150 employment opportunities during the construction phase and 50 additional employment</p>

<sup>15</sup> Section 2(2) of NEMA refers.

<sup>16</sup> Sections 2(2) and 2(4)(c) of NEMA refers.

<sup>17</sup> Section 3 of the Development Facilitation Act, 1995 (Act No. 67 of 1995) ("DFA") and the National Development Plan refer.



Requirement	Part where requirement is addressed/response
	opportunities during the operational phase. This will include employment opportunities for local labourers.
2.5.2 <i>reduce the need for transport of people and goods,</i>	It is not expected for the proposed development to have an impact upon the transportation of people or goods.
2.5.3 <i>result in access to public transport or enable non-motorised and pedestrian transport (e.g. will the development result in densification and the achievement of thresholds in terms public transport),</i>	It is not expected for the proposed development to have an impact upon access to public transport or the enabling of non-motorised and pedestrian transport.
2.5.4 <i>compliment other uses in the area,</i>	The predominant land uses in the area are commercial and industrial land uses. The proposed development therefore compliments the other uses in the area (the commercial and industrial land uses).
2.5.5 <i>be in line with the planning for the area,</i>	The proposed development is in line with the development goals of the Emalahleni Local Municipality.
2.5.6 <i>for urban related development, make use of underutilised land available with the urban edge,</i>	The proposed development is not an urban related development as it is the establishment of a new township for industrial use. The proposed development falls outside the urban edge.
2.5.7 <i>optimise the use of existing resources and infrastructure,</i>	The proposed development will make use of groundwater supply (4 newly drilled boreholes), sewerage and electricity supplies and existing road infrastructure to the project site will also be used.
2.5.8 <i>opportunity costs in terms of bulk infrastructure expansions in non-priority areas (e.g. not aligned with the bulk infrastructure planning for the settlement that reflects the spatial reconstruction priorities of the settlement),</i>	No new bulk infrastructure will be required for the proposed project.
2.5.9 <i>discourage "urban sprawl" and contribute to compaction/densification,</i>	The proposed development is not an urban related development as it is the establishment of a new township for industrial use. The proposed development falls outside the urban edge.
2.5.10 <i>contribute to the correction of the historically distorted spatial patterns of settlements and to the optimum use of existing infrastructure in excess of current needs,</i>	The proposed development will make use of groundwater supply (4 newly drilled boreholes), sewerage and electricity supplies and existing road infrastructure to the project site will also be used. It is not expected for the

Requirement	Part where requirement is addressed/response
	proposed development to have an effect on historically distorted spatial patterns of settlements.
2.5.11 <i>encourage environmentally sustainable land development practices and processes,</i>	Environmentally sustainable land development practices and processes are encouraged through specific mitigation measures that have been included in the Environmental Management Programme for this project.
2.5.12 <i>take into account special locational factors that might favour the specific location (e.g. the location of a strategic mineral resource, access to the port, access to rail, etc.),</i>	<p>The location for the proposed development is strategically ideal for the following reasons:</p> <ul style="list-style-type: none"> <li>• The property is situated within the Naauwpoort Industrial Node;</li> <li>• The property is situated approximately 16km south of Emalahleni;</li> <li>• The site is located next to a Provincial Road (R544);</li> <li>• The proposed development is in line with the Emalahleni Local Municipality Integrated Development Plan (IDP) 2018/19.</li> </ul>
2.5.13 <i>the investment in the settlement or area in question will generate the highest socio-economic returns (i.e. an area with high economic potential),</i>	Investment in the proposed development will result in socio-economic returns for the area. It is estimated that the development will generate 150 employment opportunities during the construction phase and 50 employment opportunities during the operational phase.
2.5.14 <i>impact on the sense of history, sense of place and heritage of the area and the socio-cultural and cultural-historic characteristics and sensitivities of the area, and</i>	<p>It is not expected for the proposed development to have an impact upon history, sense of place, heritage of the area or the socio-cultural and cultural-historic characteristics and sensitivities of the area. The proposed development entails the removal of approximately 16.8ha of indigenous vegetation. The project property is approximately 16.8ha in total.</p> <p>According to the National Heritage Resources Act, 1999 (Act No. 25 of 1999), developments that will change the character of a site by more than 5 000m<sup>2</sup> must be brought under the attention of the South African Heritage Resources Agency (SAHRA). Such developments may then require a Heritage Impact</p>

Requirement	Part where requirement is addressed/response
	<p>Assessment to be conducted (as required by SAHRA). The part of the project property (the site) that will be changed as part of the proposed development is more than 5 000m<sup>2</sup> and a Phase 1 Heritage Impact Assessment may be required for the project site. SAHRA has, however, been notified of the proposed development as part of the general public participation process, seeing as SAHRA is considered to be an Interested and Affected Party of the proposed project.</p>
<p>2.5.15 <i>in terms of the nature, scale and location of the development promote or act as a catalyst to create a more integrated settlement?</i></p>	<p>The proposed development is not an urban related development as it is the establishment of a new township for industrial use. The proposed development falls outside the urban edge.</p>
<p>2.6 How were a risk-averse and cautious approach applied in terms of socio-economic impacts?:<sup>18</sup></p>	<p>A risk-averse and cautious approach was applied to the Basic Environmental Impact Assessment by keeping in mind the gaps in knowledge and limitations.</p>
<p>2.6.1 <i>What are the limits of current knowledge (note: the gaps, uncertainties and assumptions must be clearly stated)?<sup>19</sup></i></p>	<p>The following assumptions have been made:</p> <ul style="list-style-type: none"> <li>• That all research and reference sources or material is accurate and up to date;</li> <li>• That the project information, as provided by the applicant, is correct;</li> <li>• The proposed development will be constructed as per the layout plans supplied from the applicant; and</li> <li>• That the development will be operated according to the Environmental Management Programme and in a responsible manner</li> </ul> <p>At this stage, the fossil assemblages that may possibly be present beneath the project site are not known. This will be determined during the Field Assessment that will be undertaken during commencement of the construction phase of the proposed project.</p>

<sup>18</sup> Section 2(4)(a)(vii) of NEMA refers.

<sup>19</sup> Section 24(4) of NEMA refers.

Requirement	Part where requirement is addressed/response
2.6.2 <i>What is the level of risk (note: related to inequality, social fabric, livelihoods, vulnerable communities, critical resources, economic vulnerability and sustainability) associated with the limits of current knowledge?</i>	It is Labesh's opinion that the level of risk associated with the limits of current knowledge is low.
2.6.3 <i>Based on the limits of knowledge and the level of risk, how and to what extent was a risk-averse and cautious approach applied to the development?</i>	A risk-averse and cautious approach was applied to the Basic Environmental Impact Assessment by keeping in mind the gaps in knowledge and limitations.
2.7 How will the socio-economic impacts resulting from this development impact on people's	environmental right in terms following:
2.7.1 <i>Negative impacts: e.g. health (e.g. HIV-Aids), safety, social ills, etc. What measures were taken to firstly avoid negative impacts, but if avoidance is not possible, to minimise, manage and remedy negative impacts?</i>	It is not expected for the proposed development to impact significantly on people's health, safety and social ills.
2.7.2 <i>Positive impacts. What measures were taken to enhance positive impacts?</i>	The main positive impacts of the proposed development is the generation of employment opportunities, contribution/ expansion to the industrial sector of Emalahleni and ultimately the stimulation of the local economy. To enhance the positive impacts, local people will be employed during the construction and operational phases of the development, as far as possible.
2.8 Considering the linkages and dependencies between human wellbeing, livelihoods and ecosystem services, describe the linkages and dependencies applicable to the area in question and how the development's socioeconomic impacts will result in ecological impacts (e.g. over utilisation of natural resources, etc.)?	The development's socio-economic impacts will indirectly result in the consumption of natural resources, such as water and diesel. However, the usage of the resources is not considered to be an over-utilisation.
2.9 What measures were taken to pursue the selection of the "best practicable environmental option" in terms of socio-economic considerations? <sup>20</sup>	Refer to Section 8.1 of this report.
2.10 What measures were taken to pursue environmental justice so that adverse environmental impacts shall not be distributed in such a manner as to unfairly discriminate against any person, particularly vulnerable and disadvantaged persons (who are the beneficiaries and is the development located appropriately)? <sup>21</sup> Considering the need for social equity and justice, do the alternatives identified, allow the "best	Refer to Section 8.1 of this report. The alternatives considered allow for the "best practicable environmental option" to be selected.

<sup>20</sup> Section 2(4)(b) of NEMA refers.

<sup>21</sup> Section 2(4)(c) of NEMA refers.

Requirement	Part where requirement is addressed/response
practicable environmental option" to be selected, or is there a need for other alternatives to be considered?	
2.11 What measures were taken to pursue equitable access to environmental resources, benefits and services to meet basic human needs and ensure human wellbeing, and what special measures were taken to ensure access thereto by categories of persons disadvantaged by unfair discrimination? <sup>22</sup>	Local labourers will be employed, as far as possible and up to certain skill levels, depending on the work involved.
2.12 What measures were taken to ensure that the responsibility for the environmental health and safety consequences of the development has been addressed throughout the development's life cycle? <sup>23</sup>	To ensure that responsibility for the environmental health and safety consequences of the development has been addressed, mitigation measures have been identified in the Environmental Management Programme. The responsibility for implementing the mitigation measures lies with the applicant.
2.13 What measures were taken to:	
2.13.1 <i>ensure the participation of all interested and affected parties,</i>	<p>A public participation process was conducted, in accordance with the EIA Regulations, 2014, and also taking the following into consideration</p> <ul style="list-style-type: none"> <li>• GN 807 - Public Participation Guideline in the Environmental Impact Assessment Process, 2012; and</li> <li>• The Promotion of Access to Information Act (PAIA), 2000.</li> </ul>
2.13.2 <i>provide all people with an opportunity to develop the understanding, skills and capacity necessary for achieving equitable and effective participation,</i> <sup>24</sup>	The public participation process for this project is open to all parties. Site notices and a newspaper advertisement were placed to encourage participation from a wider audience than simply the adjacent land owners.
2.13.3 <i>ensure participation by vulnerable and disadvantaged persons,</i> <sup>25</sup>	The public participation processes were open to all individuals, also to vulnerable and disadvantaged persons.

<sup>22</sup> Section 2(4)(d) of NEMA refers.

<sup>23</sup> Section 2(4)(e) of NEMA refers.

<sup>24</sup> Section 2(4)(f) of NEMA refers.

<sup>25</sup> Section 2(4)(f) of NEMA refers.

Requirement	Part where requirement is addressed/response
2.13.4 <i>promote community wellbeing and empowerment through environmental education, the raising of environmental awareness, the sharing of knowledge and experience and other appropriate means,</i> <sup>26</sup>	All employees, contractors and sub-contractors will be required to attend environmental awareness inductions (training).
2.13.5 <i>ensure openness and transparency, and access to information in terms of the process,</i> <sup>27</sup>	<p>A public participation process was conducted, in accordance with the EIA Regulations, 2014, and also taking the following into consideration</p> <ul style="list-style-type: none"> <li>• GN 807 - Public Participation Guideline in the Environmental Impact Assessment Process, 2012; and</li> <li>• The Promotion of Access to Information Act (PAIA), 2000.</li> </ul> <p>The public participation process was open to participation from any members of the public and was a fully transparent process. All comments received from Interested and Affected Parties have been included in the reports for this project and have also been responded to/addressed. The reports were available to any person wishing to review and comment upon the reports.</p>
2.13.6 <i>ensure that the interests, needs and values of all interested and affected parties were taken into account, and that adequate recognition were given to all forms of knowledge, including traditional and ordinary knowledge</i> <sup>28</sup> , and	<p>A public participation process was conducted, in accordance with the EIA Regulations, 2014, and also taking the following into consideration</p> <ul style="list-style-type: none"> <li>• GN 807 - Public Participation Guideline in the Environmental Impact Assessment Process, 2012; and</li> <li>• The Promotion of Access to Information Act (PAIA), 2000.</li> </ul>
2.13.7 <i>ensure that the vital role of women and youth in environmental management and development were recognised and their full participation therein were be promoted?</i> <sup>29</sup>	A public participation process was conducted, in accordance with the EIA Regulations, 2014, and also taking the following into consideration

<sup>26</sup> Section 2(4)(h) of NEMA refers.

<sup>27</sup> Section 2(4)(k) of NEMA refers.

<sup>28</sup> Section 2(4)(g) of NEMA refers.

<sup>29</sup> Section 2(4)(q) of NEMA refers.

Requirement	Part where requirement is addressed/response
	<ul style="list-style-type: none"> <li>• GN 807 - Public Participation Guideline in the Environmental Impact Assessment Process, 2012; and</li> <li>• The Promotion of Access to Information Act (PAIA), 2000.</li> </ul>
<p>2.14 Considering the interests, needs and values of all the interested and affected parties, describe how the development will allow for opportunities for all the segments of the community (e.g. a mixture of low-, middle-, and high-income housing opportunities) that is consistent with the priority needs of the local area (or that is proportional to the needs of an area)?<sup>30</sup></p>	<p>Local labourers will be employed, as far as possible and up to certain skill levels, depending on the work involved.</p>
<p>2.15 What measures have been taken to ensure that current and/or future workers will be informed of work that potentially might be harmful to human health or the environment or of dangers associated with the work, and what measures have been taken to ensure that the right of workers to refuse such work will be respected and protected?<sup>31</sup></p>	<p>All employees, contractors and sub-contractors will be required to attend environmental awareness inductions (training). This will include informing workers that they have the right to refuse work should the work be harmful to human health or the environment.</p>
<p>2.16 Describe how the development will impact on job creation in terms of, amongst other aspects:</p>	
<p>2.16.1 <i>the number of temporary versus permanent jobs that will be created,</i></p>	<p>It is estimated that the proposed development will generate 150 temporary employment opportunities during the construction phase and 50 permanent employment opportunities during the operational phase. This will include employment opportunities for local labourers.</p>
<p>2.16.2 <i>whether the labour available in the area will be able to take up the job opportunities (i.e. do the required skills match the skills available in the area),</i></p>	<p>Local labourers will be employed, as far as possible and up to certain skill levels, depending on the work involved.</p>
<p>2.16.3 <i>the distance from where labourers will have to travel,</i></p>	<p>Labourers will be transported to and from the construction site. Using local labourers (as far as possible) will decrease travel distances.</p>
<p>2.16.4 <i>the location of jobs opportunities versus the location of impacts (i.e. equitable distribution of costs and benefits), and</i></p>	<p>Employment opportunities will be created at the proposed development site.</p>
<p>2.16.5 <i>the opportunity costs in terms of job creation (e.g. a mine might create 100 jobs, but impact on 1000 agricultural jobs, etc.).</i></p>	<p>The proposed development will create employment opportunities and should not impact upon employment opportunities in other sectors.</p>

<sup>30</sup> x

<sup>31</sup> Section 2(4)(j) of NEMA refers.



Requirement	Part where requirement is addressed/response
2.17 What measures were taken to ensure:	
2.17.1 <i>that there were intergovernmental coordination and harmonisation of policies, legislation and actions relating to the environment, and</i>	Relevant environmental and town planning legislation was considered and adhered to during the Environmental Impact Assessment and Land Use Rights processes. Also refer to Chapter 6 of this report.
2.17.2 <i>that actual or potential conflicts of interest between organs of state were resolved through conflict resolution procedures?</i>	There have been no such conflicts to resolve to date.
2.18 What measures were taken to ensure that the environment will be held in public trust for the people, that the beneficial use of environmental resources will serve the public interest, and that the environment will be protected as the people's common heritage? <sup>32</sup>	<p>The proposed development is situated outside an urban area and is earmarked for industrial use. Ensuring that the environment (of the project site) is held in the public trust is therefore not deemed to be applicable to this proposed development.</p> <p>Mitigation measures will also be included in the Environmental Management Programme for this development to minimise the impacts of the proposed development on the environment.</p>
2.19 Are the mitigation measures proposed realistic and what long-term environmental legacy and managed burden will be left? <sup>33</sup>	Realistic mitigation measures have been proposed in detail in the EMP for this project. Should these mitigation measures be implemented by the applicant, it is not expected for there to be any long-term environmental legacy or burden.
2.20 What measures were taken to ensure that the costs of remedying pollution, environmental degradation and consequent adverse health effects and of preventing, controlling or minimising further pollution, environmental damage or adverse health effects will be paid for by those responsible for harming the environment? <sup>34</sup>	The applicant will be responsible for any costs associated with the remediation of pollution, environmental degradation and consequent adverse health effects and for preventing, controlling or minimising further pollution, environmental damage or adverse health effects.
2.21 Considering the need to secure ecological integrity and a healthy bio-physical environment, describe how the alternatives identified (in terms of all the different	Refer to Section 8.1 of this report.

<sup>32</sup> Section 2(4)(o) of NEMA refers.

<sup>33</sup> Section 240(1)(b)(iii) of NEMA and the National Development Plan refer.

<sup>34</sup> Section 2(4)(p) of NEMA refers.

Requirement	Part where requirement is addressed/response
<p>elements of the development and all the different impacts being proposed), resulted in the selection of the best practicable environmental option in terms of socio-economic considerations?<sup>35</sup></p>	
<p>2.22 Describe the positive and negative cumulative socio-economic impacts bearing in mind the size, scale, scope and nature of the project in relation to its location and other planned developments in the area?<sup>36</sup></p>	<p>Cumulative impacts have been described and assessed in Section 9.3 of this report.</p>

<sup>35</sup> Section 2(4)(b) of NEMA refers.

<sup>36</sup> Regulations 22(2)(i)(j), 28(1)(g) and 31(2)(1) in Government Notice No. R. 543 refer.

## 8. PROCESS FOLLOWED TO REACH THE PROPOSED PREFERRED ACTIVITY, SITE AND LOCATION WITHIN THE SITE

### 8.1 Alternatives considered

According to the Western Cape Department of Environmental Affairs and Development Planning's Guideline on Alternatives (2010), the following alternatives can be assessed:

Table 3: Alternative Types

Alternative Type	Explanation/Examples
Location	Refers to both alternative properties as well as alternative sites on the same property.
Activity	Incineration of waste rather than disposal at a landfill site/Provision of public transport rather than increasing the capacity of roads.
Design or Layout	Design: e.g. Different architectural and or engineering designs Site Layout: Consideration of different spatial configurations of an activity on a particular site (e.g. siting of a noisy plant away from residences).
Technological	Consideration of such alternatives is to include the option of achieving the same goal by using a different method or process (e.g. 1 000 megawatt of energy could be generated using a coal-fired power station or wind turbines).
Demand	Arises when a demand for a certain product or service can be met by some alternative means (e.g. the demand for electricity could be met by supplying more energy or using energy more efficiently, by managing demand).
Input	Input alternatives are applicable to applications that may use different raw materials or energy sources in their process (e.g. industry may consider using either high sulphur coal or natural gas as a fuel source).
Routing	Consideration of alternative routes generally applies to linear developments such as power line servitudes, transportation and pipeline routes.
Scheduling and Timing	Where a number of measures might play a part in an overall programme, but the order in which they are scheduled will contribute to the overall effectiveness of the end result.
Scale and Magnitude	Activities that can be broken down into smaller units and can be undertaken on different scales (e.g. for a housing development there could be the option of 10, 15 or 20 housing units. Each of these alternatives may have different impacts).
"No-Go Option"	This is the option of not implementing the proposed activity.

Alternative Assessments must always include the "No-Go Option" as the baseline against which all other alternatives must be measured. The following alternatives could be considered for the proposed project:

- Location – Alternative properties and alternative sites on the same property;
- Activity;
- Design or Layout;
- Demand; and
- "No-Go Option".

Alternatives were considered in a qualitative manner.

### 8.1.1 Location

#### Alternative properties

The proposed project property is owned by the Mlangeni Family Trust. The land is currently vacant. No alternative properties have been identified since the suitability and feasibility of the project property for the proposed project is demonstrated by the following:

- The property is situated within the Naauwpoort Industrial Node;
- The surrounding land uses are occupied by commercial and industrial land uses;
- The property is situated approximately 16km south of Emalahleni;
- The site is located next to a Provincial Road (R544);
- The proposed development is in line with the Emalahleni Local Municipality Integrated Development Plan (IDP) 2018/19.

#### Alternative sites on the same property

No alternative sites have been identified as it is the establishment of a new township for industrial use. According to the Mpumalanga Biodiversity Sector Plan, the proposed site is "*Heavily Modified*" with some "*Other Natural Areas*" remaining. The Terrestrial CBA Map further indicates that the majority of the project site is designated as "*No Natural Habitat Remaining*" with some very small areas being "*Highly Significant*" and of "*Least Concern*".

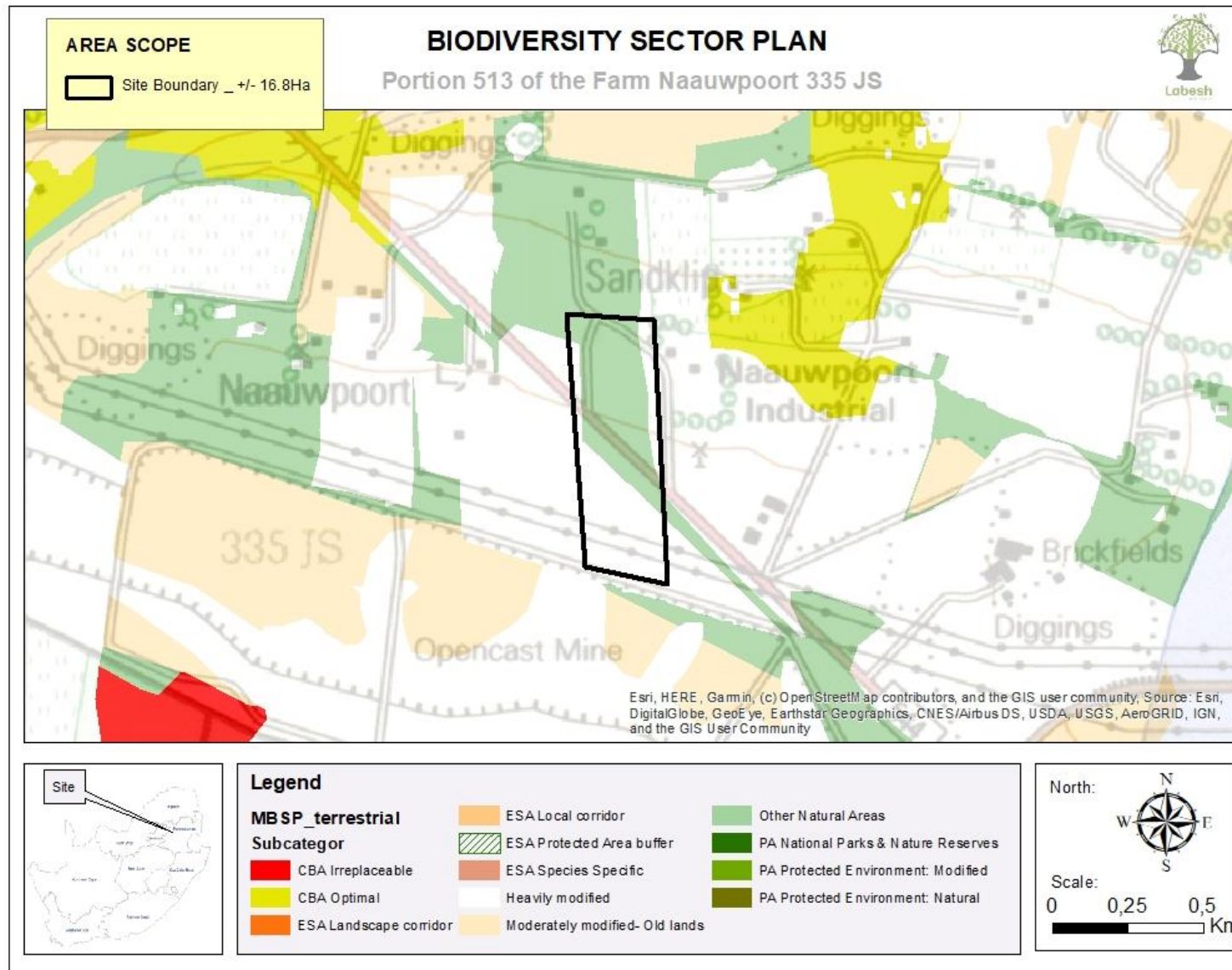


Figure 4: Mpumalanga Biodiversity Sector Plan of the project site

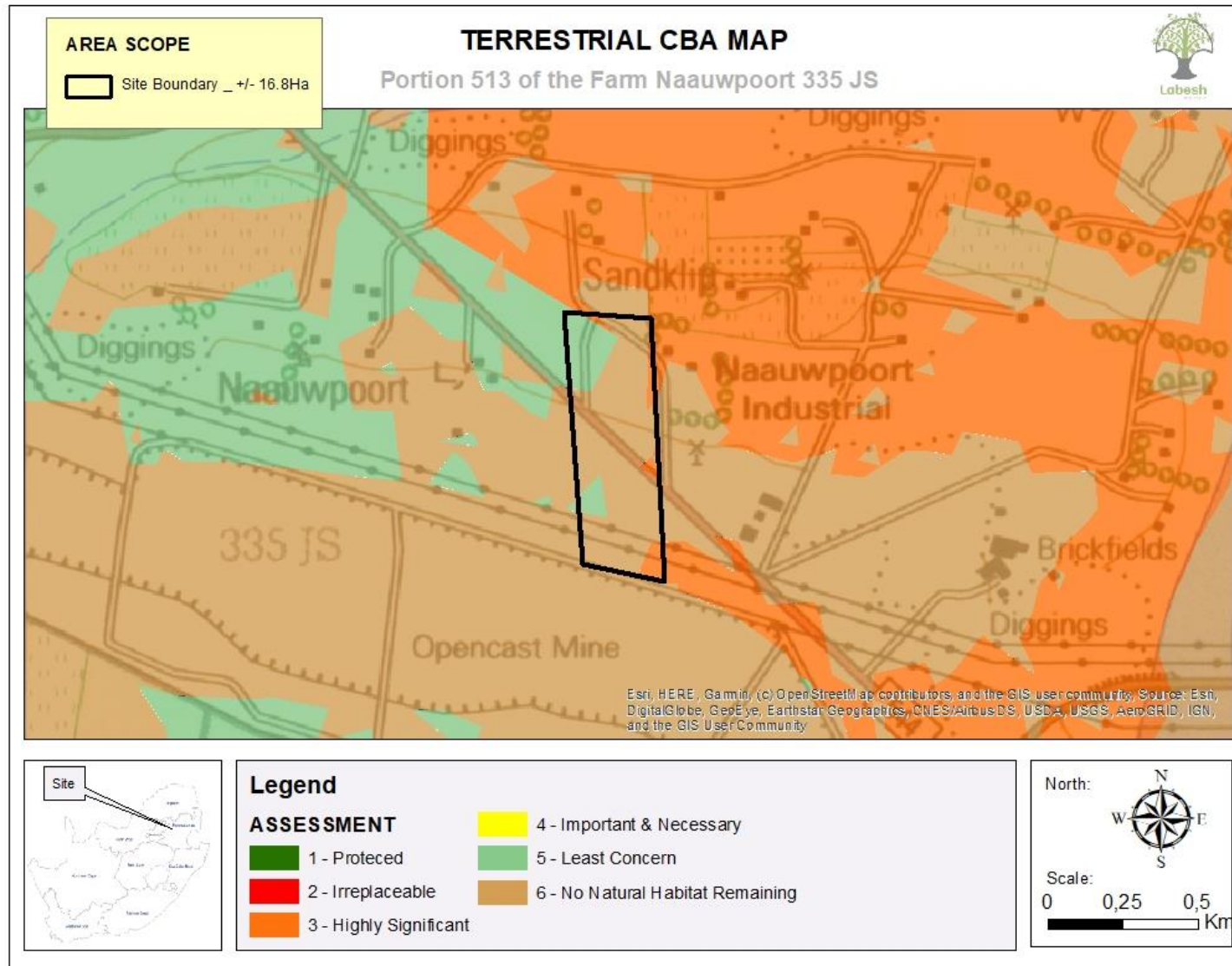


Figure 5: Terrestrial CBA Map of the project site



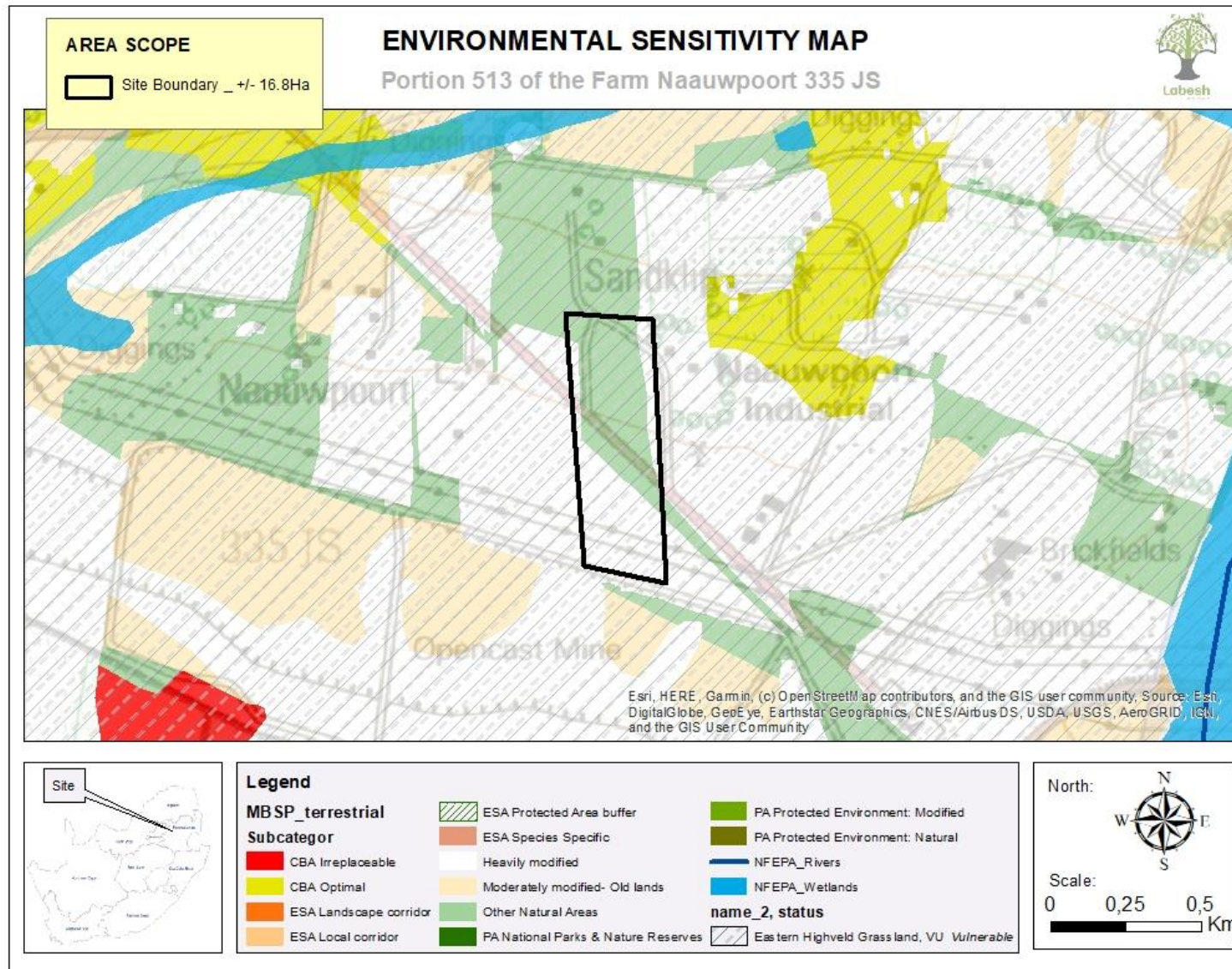


Figure 6: Sensitivity Map of the project site



### 8.1.2 Activity

The proposed project site is zoned as “Industrial” and currently open, vacant land. The proposed project will entail the establishment of a township on the proposed project site in an already established Industrial Node (Naauwpoort Industrial Node). No activity alternatives were considered for the proposed development.

### 8.1.3 Design/Layout

A Site Layout Plan was developed by keeping in mind all economic, social and environmental sustainability factors. The proposed layout plan makes provision for two industrial erven, Erf 1 with a 6.7234Ha coverage (North of the R544 Provincial road) and Erf 2 with a 6.4607Ha coverage (South of the R544 Provincial road). A private road of approximately 1.4976Ha will be constructed on Erf 1 and according to municipal standards. The existing Provincial road (R544) will be retained as part of the proposed development. Relevant design and layout alternatives were considered for the proposed project.

### 8.1.4 Demand

There is a demand for formal industrial development in the southern areas of Emalahleni. The Highveld coalfields and a majority of the big Eskom power station are situated south of Emalahleni and does the town play an important role in the supply and rendering of goods and services to collieries and power stations in the region. All existing light industrial areas situated south of the N4 freeway are developed to its full potential and the few properties that became available were sold out within a short period. The fact that most of the land along Bethal road is being used for either commercial or industrial purposes, states the demand and need for industrial development.

### 8.1.5 “No-Go Option”

The No-Go Option would be where the proposed site is not used for the establishment of a township for industrial purposes. The No-Go Option is not considered to be a reasonable alternative as this would mean that the undeveloped project site is under-utilised in terms of its potential for a township establishment for industrial use, as per the IDP for the local municipality.

The negative environmental impacts expected by the proposed development can be mitigated to acceptable limits. The positive social impacts outweigh the negative impacts and the consideration of the “no-go” option can be justifiably dismissed as a sustainable alternative.

## 8.2 Public Participation Process undertaken in terms of Section 41 of the EIA Regulations, 2014

The following PPP was conducted for the proposed project:

- Identification of key Interested and Affected Parties (all adjacent landowners);
- Identification of key Stakeholders;
- Informing the key Stakeholders of the process by means of correspondence;
- Placement of a press notice in the Beeld Newspaper, informing the public of the process;
- Placement of site notices at the site; and
- Correspondence with I&APs and Stakeholders and the addressing of their comments

**The following section of the report will be updated as the Public Participation Process progresses.**

## 8.2.1 Identification and Registration of Interested and Affected Parties and Key Stakeholders

The table below lists adjacent landowners that were identified and notified (by means of hand delivery and/or email) of the proposed project.

List of Adjacent Properties identified:

- Portion 29 of the Farm Naauwpoort 335 JS
- Portion 66 of the Farm Naauwpoort 335 JS
- Portion 166 of the Farm Naauwpoort 335 JS
- Portion 301 of the Farm Naauwpoort 335 JS
- Portion 302 of the Farm Naauwpoort 335 JS
- Portion 303 of the Farm Naauwpoort 335 JS
- Portion 304 of the Farm Naauwpoort 335 JS
- Portion 305 of the Farm Naauwoort 335 JS
- Portion 306 of the Farm Naauwpoort 335 JS
- Portion 319 of the Farm Naauwpoort 335 JS

All organs of state that may have jurisdiction in respect of the proposed project and which were identified and notified (via email) were:

- Mpumalanga Department of Community Safety, Security and Liaison
- Mpumalanga Department of Public Works, Roads and Transport
- Nkangala District Municipality
- Emalahleni Local Municipality
- Department of Water and Sanitation
- Mpumalanga Department of Agriculture, Rural Development and Land Administration
- Mpumalanga Department of Co-operative Governance and Traditional Affairs
- Mpumalanga Department of Health
- Mpumalanga Department of Social Development
- Mpumalanga Department of Human Settlements
- Mpumalanga Department of Culture, Sport and Recreation
- Mpumalanga Department of Finance
- Department of Mineral Resources
- South African Heritage Resource Agency

All organs of state that may have jurisdiction in respect of the proposed project are considered to be I&AP's.

For the initial Public Participation Process (notification of potentially Interested and Affected Parties), written notifications and Background Information Documents were distributed to the above mentioned list of identified Interested and Affected Parties. The notifications were sent via email, fax, registered post or hand delivered. Site notices were placed on the boundary of the project property. A newspaper advertisement was placed in the Witbank News Newspaper, on the 19<sup>th</sup> of March 2021.

Proof of the above mentioned initial Public Participation Process is attached under Appendix C.

## 8.2.2 Summary of the issues raised by the Interested and Affected Parties and how the issues were addressed or incorporated into the Environmental Impact Assessment process

There were no issues raised by any Interested and Affected Parties.

## 8.3 Environmental attributes associated with the alternatives considered – Environmental attributes of the proposed, project properties (the preferred alternative)

### 8.3.1 Geographical

#### Geology and Soil

The northern part of the proposed project site is classified as Shale, Sandstone, Clay, Conglomerate, Limestone and Marl (Ecca Group). The southern part of the proposed project site is classified as Dolerite, Lava, Sandstone, Conglomerate, Siltstone and Rhyolite (Loskop Formation). Refer to **Figure 9: Geology Map of the project site**.

According to the Motivation Memorandum (2005), provision have been given in the Draft Conditions of Establishment stating that:

*“The erf lies in an area where soil conditions can affect buildings and structures and result in damage to them.”* A separate Geotechnical report will be done for Beniconpark Extension 2.

### 8.3.2 Physical

#### Rainfall

The site is approximately 16km south of Emalahleni. According to statistics gathered from en.climate-data.org, the least amount of rainfall for Emalahleni occurs in July with an average of 6mm. The most rainfall occurs in January with an average of 119mm.

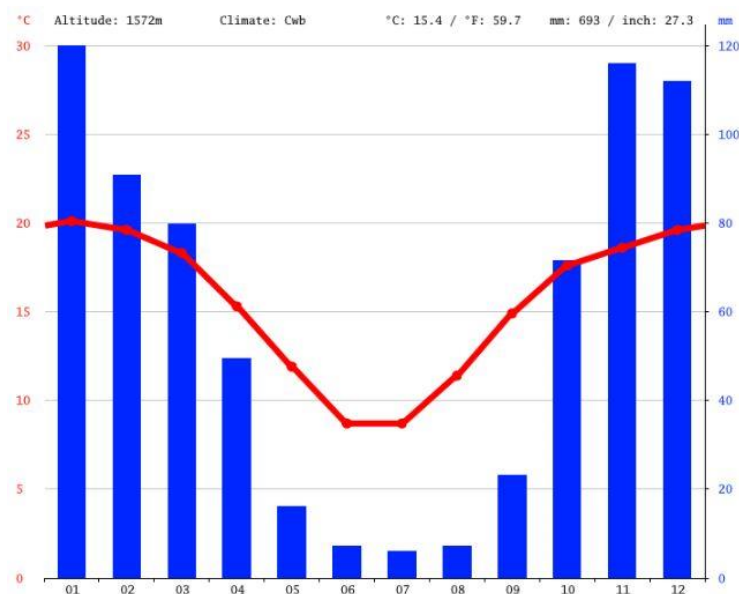


Figure 7: Rainfall Pattern for Emalahleni

#### Temperature

In Emalahleni, the temperatures are highest on average in January with +/- 20.1°C. June has the lowest average temperatures of the year with 8.7°C (en.climate-data.org).

## Wind

According to [www.windfinder.com](https://www.windfinder.com) the prevailing wind direction for Emalahleni weather station is north-east, as indicated in the figure below (<https://www.windfinder.com/windstatistics/emalahleni>).

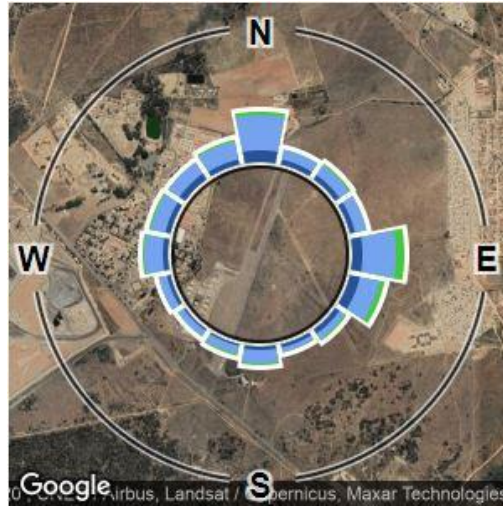


Figure 8: Prevailing wind direction for Emalahleni (<https://www.windfinder.com/windstatistics/emalahleni>)

## Topography

The project site slopes from south to north. Elevation for the southern-most part is laying at elevations between 1555-1550masl (metres above sea level). Elevation for the northern-most part is laying at elevation between 1535-1530masl.

This is also shown in Figure 10: Elevation Map of the project site.

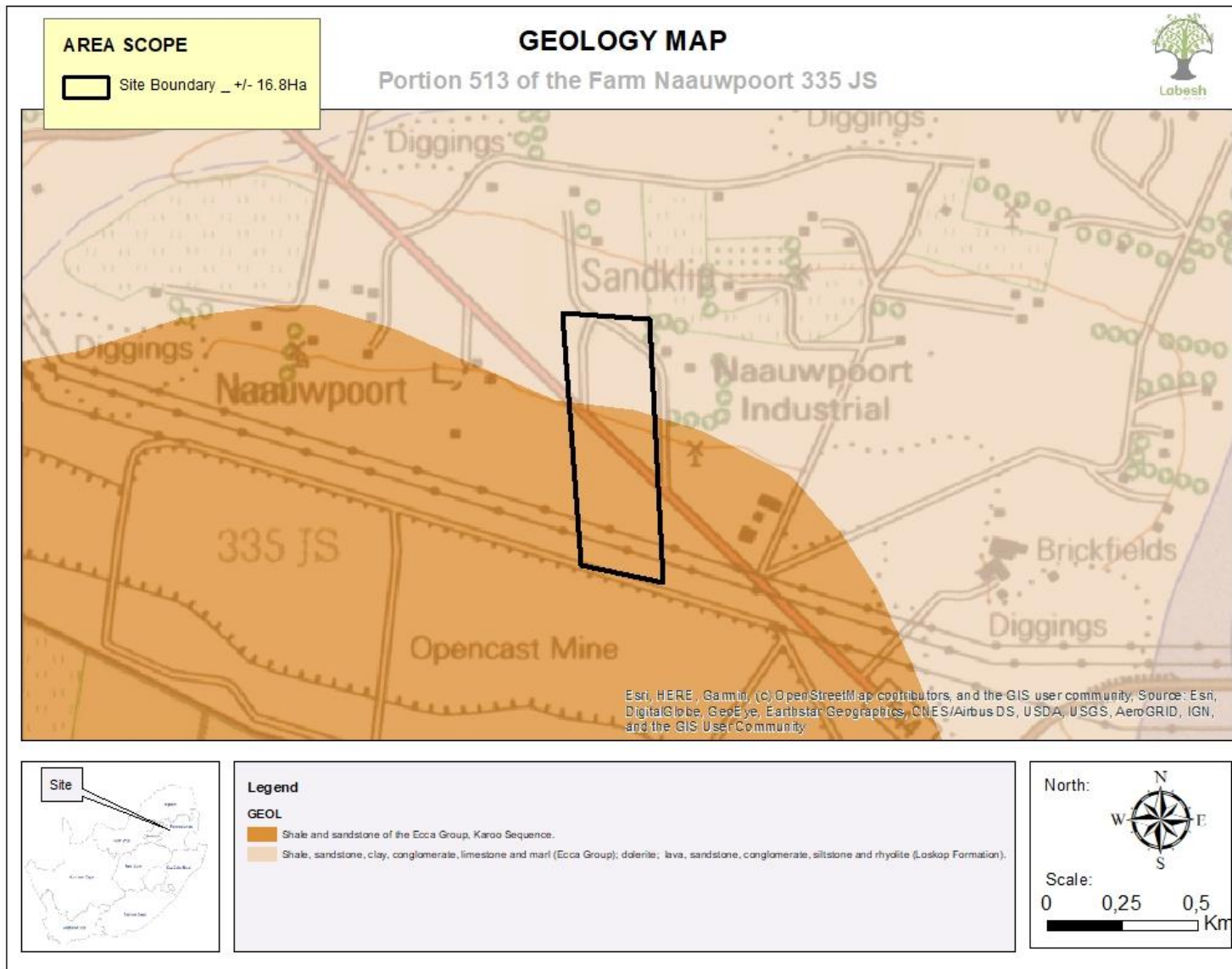


Figure 9: Geology Map of the project site



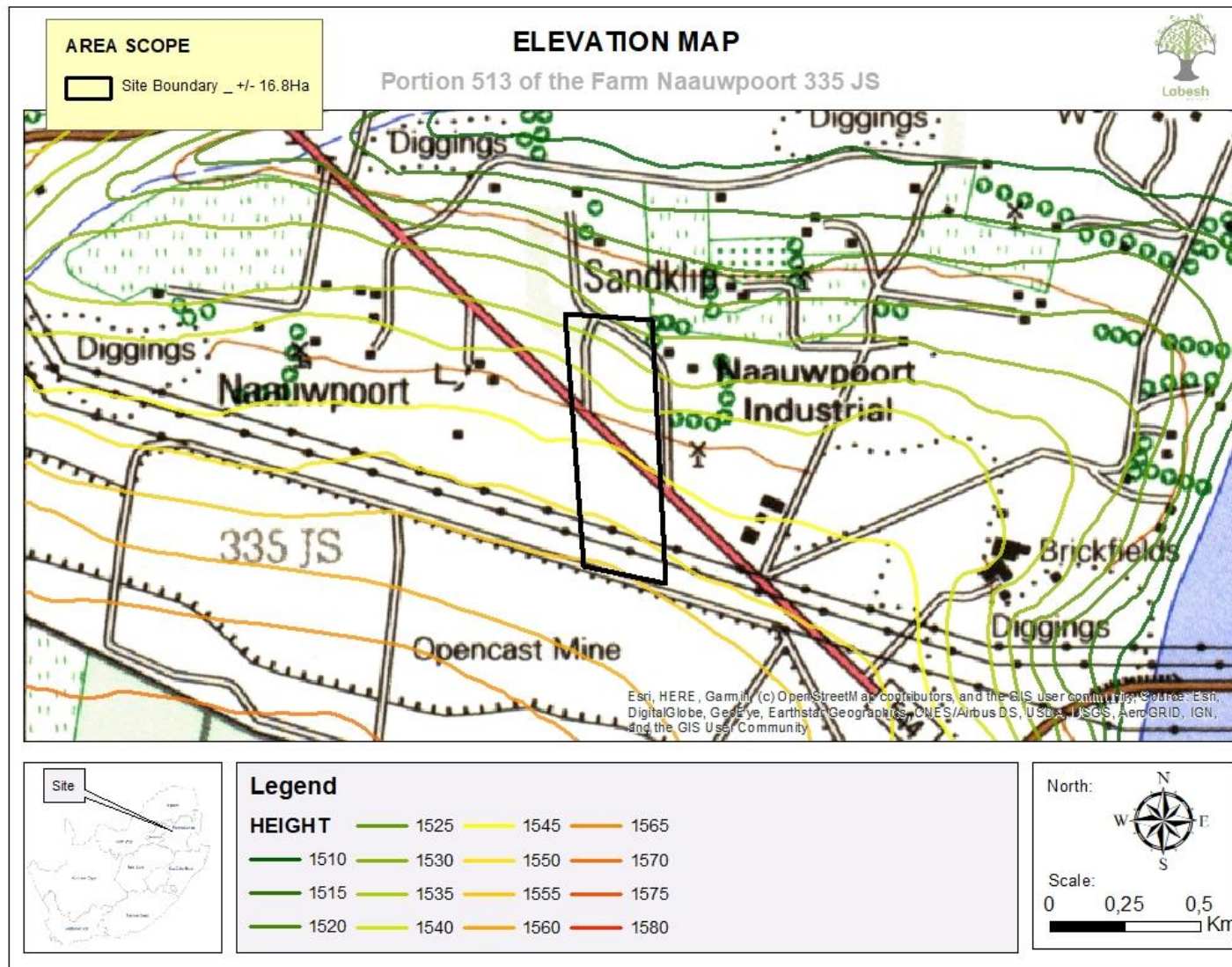


Figure 10: Elevation Map of the project site



## Biological Flora

As the project site is heavily modified, a desktop assessment is provided in this section as a reflection of the historical state of the environment.

The project site lies within the Grassland biome, and more specifically within the Eastern Highveld Grassland (Refer to *Figure 14: Vegetation Map of the project site*).

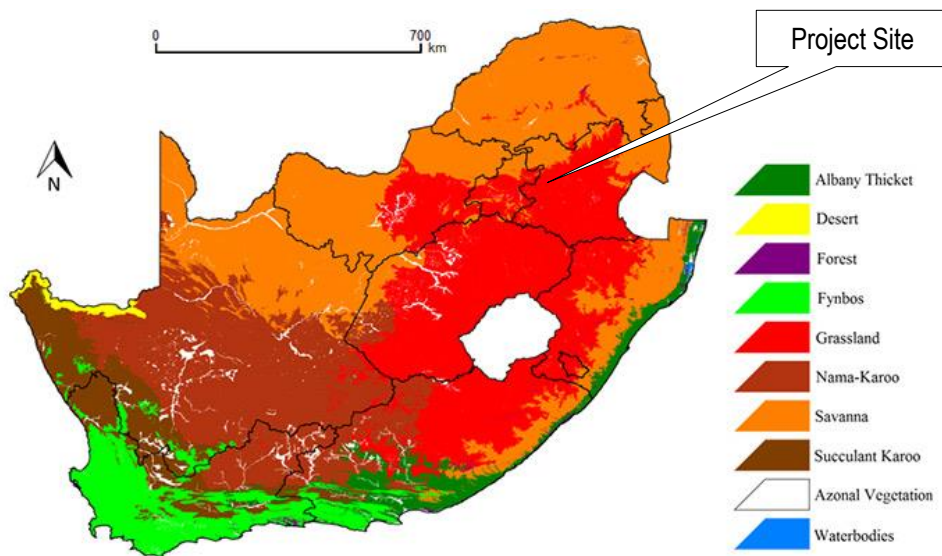


Figure 11: Biomes of South Africa

Grasslands are primarily existent in areas where there is not efficient rainfall to support the establishment of a forest, but also not so little that a desert may form. In South Africa, grasslands make up almost one third of the land surface, stretching from the Eastern Cape and KwaZulu Natal up to the central plateau (SANBI, 2013). The grassland biome is considered to have a relatively high biodiversity rate (second to the fynbos biome). Rare plant species are often found in the escarpment areas of grasslands. Most of these species are usually endangered and comprise mainly of endemic geophytes or dicotyledonous herbaceous plants ([pza.sanbi.org](http://pza.sanbi.org)).

Grasslands are classified into two groups namely: Savannah and Temperate Grassland. Three of the main factors contributing to grasslands are (i) low rainfall; (ii) wildland fires; and (iii) grazing by animals. Grasslands are characterized as land dominated by grass species with minimal shrubs and trees ([nationalgeographic.com](http://nationalgeographic.com)). The topography is mainly flat and rolling. Frost, fire and grazing maintain grass dominance and prevents the establishment of trees ([pza.sanbi.org](http://pza.sanbi.org)).



Figure 12: Grassland Biome

Two categories of grass plants exist in the grassland biome: sweet grasses and sour grasses. Sweet grasses are known to have a lower fibre content and maintain nutrients within the leaves during winter months, thus palatable to stock. Sour grasses are known for their high fibre content and withdraw their nutrients from leaves during winter months, thus unpalatable to stock ([pza.sanbi.org](http://pza.sanbi.org)).

Grass plants can tolerate grazing, fire and even mowing. Most of the grass species produce new stems, making use of a variety of strategies. Overgrazing helps the establishment of pioneer, creeping and annual grasses. The grassland biome is the foundation of dairy, beef and wool production in South Africa. Many grasslands have also been converted to maize crop fields, with sorghum, wheat and sunflowers also farmed on a smaller scale ([pza.sanbi.org](http://pza.sanbi.org)).

Typical plant species found within the biome is *Aristida*, *Digitaria*, *Eragrostis*, *Themeda*, *Heteropogon*, *Tristachya* and *Elionurus* species. Some wood species within the biome is *Acacia caffra*, *Celtis africana*, *Diospyros lycioides* subsp. *lycioides* (Mucina & Rutherford, 2006).

As the project site has historically been modified/disturbed, it is not expected that any remnants of the original Eastern Highveld grassland vegetation would be present onsite.

## Fauna

Traditionally, grasslands support many grass eating animals (herbivores) that includes the zebra, wildebeest, eland and many antelope species. Raptors are also present in the grassland biome which feed on the many rodents present. Many insects such as ants, crickets and butterflies can be seen within the grassland biome and feeds on the variety of plants species available ([bioqui.de](http://bioqui.de)). Bird species richness is relatively high within grasslands ([worldwildlife.org](http://worldwildlife.org)).



Figure 13: Zebra (*Equus quagga*)

**According to the Ecological Fauna and Flora Habitat Survey done by Reinier F. Terblanche, March 2020 (Report attached under Appendix D):**

- Site is characterised by ecologically disturbed vegetation where hitherto cleared areas, areas that were cultivated in the past, a tar road, footpaths and tracks are found. Patches of secondary grassland with indigenous plant species remain in some areas. An area with with conspicuous high cover of alien invasive Australian *Acacia* trees is found in the northwestern corner of the site. *Eucalyptus* species (Gum Trees), *Pinus* species (Pines) occur at parts of the site. Numerous alien invasive weeds are present at the site.
- Wetlands and rocky ridges appear to be absent at the site.
- No wetlands appear to be present withing 500 m from the boundary of the site.
- No Threatened or Near Threatened or any other plant or animal species of particular conservation concern appear to be present at the site.
- Grassland at the site is represented by the Eastern Highveld Grassland (Gm 12) vegetation type which is listed as a Threatened Ecosystem, Vulnerable, according to the National List of Threatened Ecosystems (2011). The vegetation



at the site has been modified in the past and is currently considerably degraded. There is little scope for the restoration and sustainable conservation of a natural grassland area at the site.

- The scope for the site to be part of a corridor of particular conservation importance is small.
- Ecological sensitivity at the site is indicated as medium at some part and for the larger part of the site, low.
- Following the mitigations which will be upheld and planned, the footprint for development all the impact risks listed above are moderate or low.
- By no means should exotic declared invaders such as *Melia azedarach* (Syringa) the green wattle, *Acacia decurrens* or the black wattle, *Acacia mearnsii*, be planted or allowed to establish.
- If the development is approved an opportunity exists to cultivate indigenous vegetation at the site which could benefit urban biodiversity conservation efforts.

### **Wetlands, watercourses and groundwater**

The Hydrology Map (shown in *Figure 15: Hydrology Map of the project site and surrounding area*) indicates that there is no wetland present on the proposed project site. The Environmental Screening Report (attached under Appendix E), shows a low sensitivity on the Aquatic Biodiversity Theme Sensitivity.

#### **According to the Wetland Assessment done by Reinier F. Terblanche, March 2020 (Report attached under Appendix D):**

- Site is characterised by ecologically disturbed terrestrial vegetation where hitherto cleared areas, areas that were cultivated in the past, a tar road, footpaths and tracks are found. Patches of secondary grassland with indigenous plant species remain in some areas. An area with with conspicuous high cover of alien invasive Australian *Acacia* trees is found in the northwestern corner of the site. *Eucalyptus* species (Gum Trees), *Pinus* species (Pines) occur at parts of the site. Numerous alien invasive weeds are present at the site (Ecological Habitat Survey Report).
- An inlet of the Witbank Dam is located more than 500 m from the nearest boundary of the site.
- Wetlands such as those that could be classified as Floodplain Wetlands, Channelled Valley-bottom Wetlands, Unchannelled Valley-bottom Wetlands, Depressions (Pans), Seeps or Wetland Flats appear to be absent at site. No rivers and riparian zones are found at the site.
- Site is situated in the Olifants Water Management Area (WMA 2). Site falls outside any FEPA (Freshwater Ecosystem Priority Area) (Nel *et al.*, 2011a, 2011b).

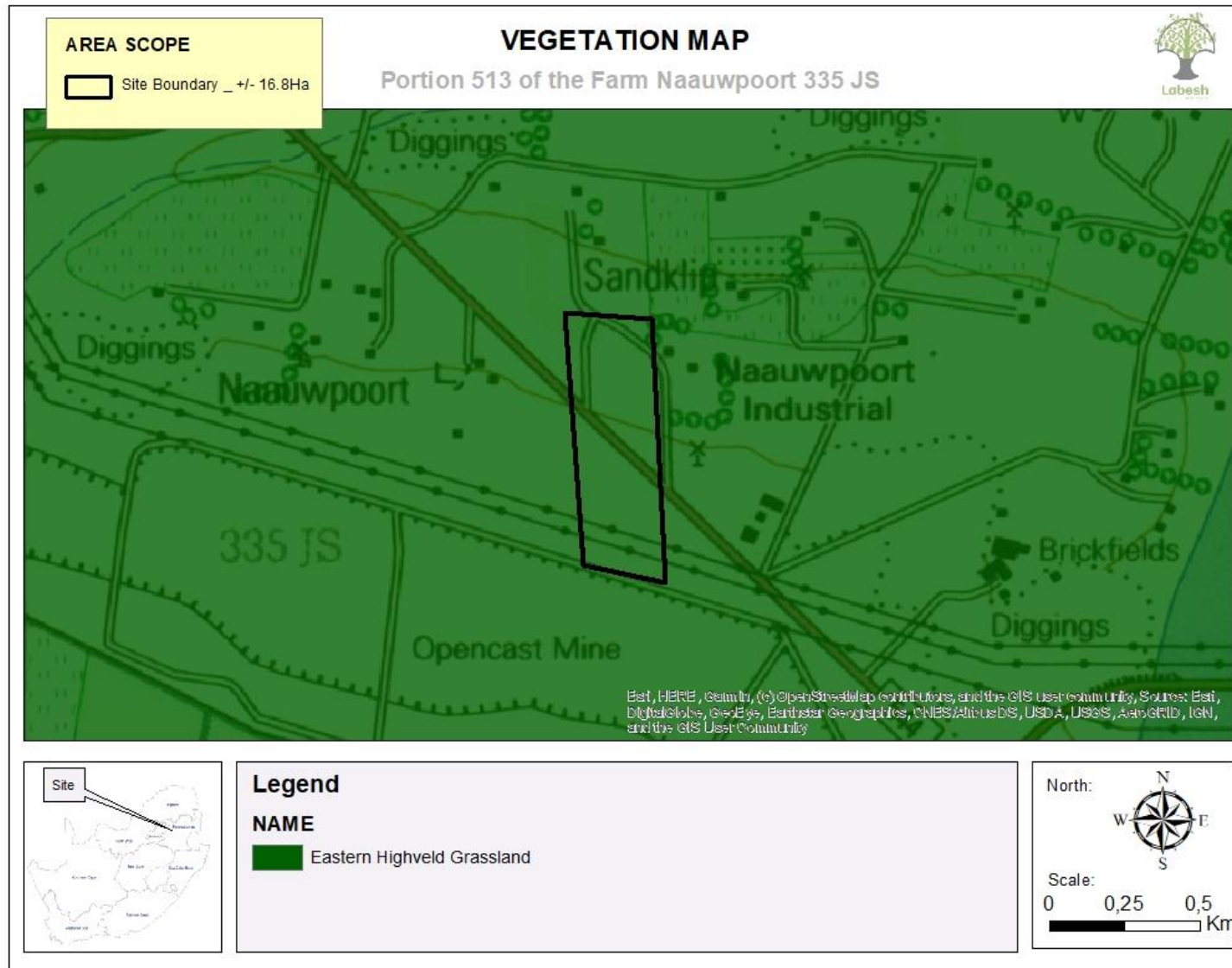


Figure 14: Vegetation Map of the project site

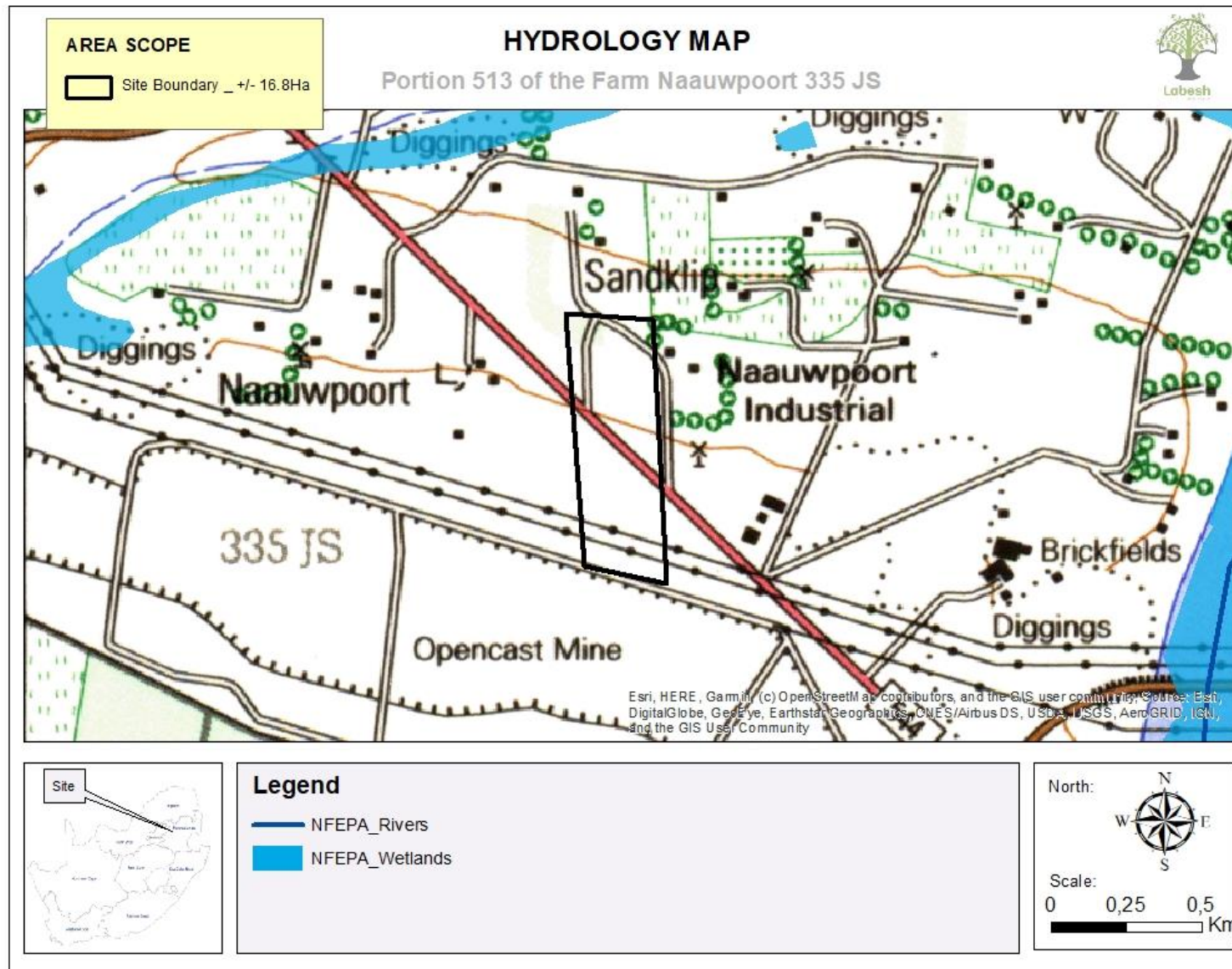


Figure 15: Hydrology Map of the project site and surrounding area



### 8.3.3 Social

The project site is located within the Emalahleni Local Municipality, Mpumalanga Province. According to the Emalahleni Integrated Development Plan 2018/2019, the Emalahleni Municipality had a population of 455 228 people in the year of 2016. The overall population growth for Emalahleni from 2011-2016 was 3.02%. Emalahleni was the 3<sup>rd</sup> largest population in the Mpumalanga Province and contributed to 31.5% of the total population of Nkangala District in 2016. It is estimated for Emalahleni to have a population number of 707 530 people in the year 2030.

The gender profile taken for Emalahleni in 2011, stated that males contributed to 52.8% of the population, while women contributed to 47.2%. According to the census, there was a 2% growth of males relative to females in the Emalahleni Local Municipality from 2001-2011 (Emalahleni Local Municipality Spatial Development Framework, 2015).

In terms of educational background and according to the 2016 Census, 146 952 of the population aged 20+ completed grade 12, compared to 117 021 in 2011. This was an overall increase of 25.6% from 2011 to 2016 (Emalahleni Integrated Development Plan 2018/2019). Educational attainment is a key indicator of the development of a population.

### 8.3.4 Economic

Emalahleni has a geographical area of 14 164 240 square kilometres, consistent of 30 wards. Emalahleni Local Municipality falls under the Nkangala District Municipality which is one of three District Municipalities within the Mpumalanga Province.

More than 50% of the total population of Emalahleni falls within the economically active population segment. However, a limited order population segment was recorded for people aged 65 and older (Emalahleni Local Municipality Spatial Development Framework, 2015).

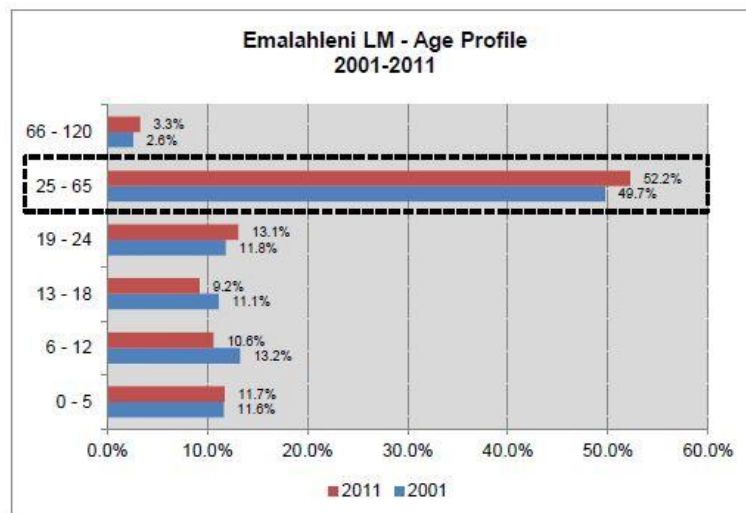


Figure 16: Emalahleni Age Profile

As per the Emalahleni Spatial Development Framework (2015), the top 3 strongest contributors to the municipal economy is known to be:

- Mining at 35%;
- Electricity at 14.4%; and
- Finance at 14.4%.

The average annual economic growth rate for 1996-2015 was recorded at 2.4%. The forecasted average annual GDP growth rate for Emalahleni for the period of 2015-2020 is at 2%. This is in line with the national and provincial growth expectations.

It is evident that the municipal economy is dominated by mining activities and are there a high dependence on the mining sector.

### 8.3.5 Unemployment and Employment

The unemployment rate for Emalahleni was at 27.3% in 2011 and 24.4% in 2015. This showed a decrease in the unemployment rate over a period of 4 years. However, in 2016 an increase in unemployment rates occurred with an average of 26.6%. Out of the 26.6% unemployed, 29.8% were females and 19.2% were males. Youth unemployment rates were measured at 36% (Emalahleni Integrated Development Plan 2018/2019).

The leading industries in terms of employment in the Emalahleni Local Municipality are:

- Manufacturing Sector at 41.2%;
- Trade Sector at 21.1%; and
- Mining Sector at 20.6%.

From the year 2001, there has been an increase in the share of Mining, Construction, Community Services and Finance as employer (Emalahleni Local Municipality Spatial Development Framework, 2015).

### 8.3.6 Archaeological and Cultural Heritage

It is not expected for the proposed development to have an impact on archaeological or cultural heritage of the area. The proposed development entails the removal of approximately 16.8ha of indigenous vegetation. The project property is approximately 16.8ha (168 000m<sup>2</sup>) in total.

According to the National Heritage Resources Act, 1999 (Act No. 25 of 1999), developments that will change the character of a site by more than 5 000m<sup>2</sup> must be brought under the attention of the South African Heritage Resources Agency (SAHRA). Such developments may then require a Heritage Impact Assessment to be conducted (as required by SAHRA). The part of the project property (the site) that will be changed as part of the proposed development is more than 5 000m<sup>2</sup> and a Phase 1 Heritage Impact Assessment may be required for the project site. SAHRA has, however, been notified of the proposed development as part of the general public participation process, seeing as SAHRA is considered to be an Interested and Affected Party of the proposed project, irrespective of the fact that a Heritage Impact Assessment is not required.

### 8.3.7 Palaeontological

According to the South African Heritage Resources Agency's Palaeontological (Fossil) Sensitivity Map, the site has a *Very High* sensitivity and a field assessment and Protocol of Fossil Finds is required (<https://sahris.sahra.org.za/map/palaeo>).

This has been included in the mitigation measures that form part of the Environmental Management Programme for this proposed development.

## 8.4 Impacts and risks identified for each alternative

The following impacts and risks have been identified for the preferred alternative:

Table 4: Impacts and Risks Identified for the Preferred Alternative

Impact	Phase	Risks
<b>Pre-construction Phase</b>	Pre-construction phase	<ul style="list-style-type: none"> <li>• Unauthorised access to the construction site that can pose a risk to the public in terms of their safety.</li> <li>• Unsafe working conditions.</li> <li>• Workers being unaware of the dangers of working at the construction site, resulting in a risk to their safety.</li> </ul>
	Planning and Design Phase	<ul style="list-style-type: none"> <li>• Inadequate planning or faulty designs may lead to surface and groundwater pollution.</li> </ul>
<b>Surface and Groundwater</b>	Construction Phase	<ul style="list-style-type: none"> <li>• Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from construction vehicles.</li> <li>• Pollution of surface and/or groundwater resources due to spillages from chemical toilets.</li> <li>• Pollution of surface and/or groundwater resources due to the incorrect management, storage and disposal of construction waste.</li> <li>• Pollution of surface and/or groundwater resources due to the runoff of contaminated stormwater.</li> <li>• Pollution of surface and/or groundwater resources from the mixing of concrete.</li> <li>• The wastage of water resources (borehole water supply) due to the irresponsible use of water.</li> </ul>
	Operational Phase	<ul style="list-style-type: none"> <li>• Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from vehicles.</li> <li>• Pollution of surface and/or groundwater resources due to the incorrect management, storage and disposal of waste.</li> <li>• Pollution of surface and/or groundwater resources due to the runoff of contaminated stormwater.</li> <li>• Pollution of surface and/or groundwater resources due to leakages from the sewerage network (pipelines) onsite.</li> <li>• The wastage of resources due to the irresponsible use of water and electricity.</li> </ul>
	Post-construction and Rehabilitation Phase	<ul style="list-style-type: none"> <li>• Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from construction vehicles.</li> </ul>
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
	<b>Fauna</b>	Construction Phase

Impact	Phase	Risks
		<ul style="list-style-type: none"> <li>Disturbance of any fauna species that may be resident onsite.</li> </ul>
	Operational Phase	<ul style="list-style-type: none"> <li>Disturbance of any fauna species that may be resident onsite.</li> <li>Habitat fragmentation.</li> <li>Provision of artificial habitat for fauna species.</li> </ul>
	Post-construction and Rehabilitation Phase	<ul style="list-style-type: none"> <li>Disturbance of any fauna species that may be present onsite.</li> </ul>
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
<b>Flora</b>	Construction Phase	<ul style="list-style-type: none"> <li>Loss of degraded/disturbed vegetation (Eastern Highveld grassland) during site clearance.</li> <li>Establishment and spread of alien invasive vegetation.</li> <li>Risk of veld fires.</li> </ul>
	Operational Phase	<ul style="list-style-type: none"> <li>Establishment and spread of alien invasive vegetation (onsite and surrounding areas).</li> <li>Risk of veld fires.</li> </ul>
	Post-construction and rehabilitation phase	<ul style="list-style-type: none"> <li>Establishment and spread of alien invasive vegetation (onsite and further than the site).</li> </ul>
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
<b>Heritage Resources</b>	Construction Phase	<ul style="list-style-type: none"> <li>Possible disturbance or destruction of cultural and heritage resources.</li> </ul>
	Operational Phase	
	Post-construction and Rehabilitation Phase	
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
<b>Palaeontological Resources</b>	Construction Phase	<ul style="list-style-type: none"> <li>The site is located in an area with “<i>Very High</i>” palaeontological sensitivity. The possibility exists that significant fossil assemblages may be present beneath the site. The disturbance and/or destruction of the fossil assemblages.</li> </ul>
	Operational Phase	
	Post-construction and	

Impact	Phase	Risks
	Rehabilitation Phase	
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
Air Quality and Noise	Construction Phase	<ul style="list-style-type: none"> <li>• Generation of dust by construction vehicles.</li> <li>• Release of emissions from construction vehicles.</li> <li>• Generation of nuisance and noise from construction vehicles and equipment/machinery.</li> </ul>
	Operational Phase	<ul style="list-style-type: none"> <li>• Generation of dust by excavation and vehicles onsite.</li> <li>• Release of emissions from vehicles.</li> <li>• Generation of nuisance and noise from vehicles, excavation and maintenance activities.</li> </ul>
	Post-construction and Rehabilitation Phase	<ul style="list-style-type: none"> <li>• Generation of dust by construction vehicles.</li> <li>• Release of emissions from construction vehicles.</li> <li>• Generation of nuisance and noise from construction vehicles and equipment/machinery.</li> </ul>
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
Soil	Planning and Design Phase	<ul style="list-style-type: none"> <li>• Inadequate planning or faulty designs may lead to soil pollution and may cause soil instability and disturbances.</li> </ul>
	Construction Phase	<ul style="list-style-type: none"> <li>• Soil pollution due to hydrocarbon spillages or leakages from construction vehicles.</li> <li>• Soil pollution due to spillages from chemical toilets.</li> <li>• Soil pollution due to the incorrect management, storage and disposal of waste (general and hazardous waste).</li> <li>• Soil pollution of surface and/or groundwater resources from the mixing of concrete.</li> <li>• Soil erosion due to the clearance of vegetation and the removal of topsoil and subsoil.</li> <li>• Soil compaction to create foundations for buildings and other associated infrastructure.</li> <li>• Degradation of topsoil due to incorrect storage practices.</li> </ul>
	Operational Phase	<ul style="list-style-type: none"> <li>• Soil pollution due to hydrocarbon spillages or leakages from vehicles.</li> <li>• Soil pollution due to the incorrect management, storage and disposal of waste (general and hazardous waste).</li> <li>• Soil pollution due to leakages from the sewerage network (pipelines) onsite.</li> <li>• Soil instability.</li> </ul>
	Post-construction and	<ul style="list-style-type: none"> <li>• Soil pollution due to hydrocarbon spillages or leakages from vehicles.</li> <li>• Soil erosion due to inefficient rehabilitation of construction areas.</li> </ul>

Impact	Phase	Risks
	Rehabilitation Phase	
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
	Construction Phase	<ul style="list-style-type: none"> <li>• Generation of a number of employment opportunities.</li> <li>• Potential increase in crime due to the influx of workers.</li> <li>• Stimulation of the local economy.</li> </ul>
	Operational Phase	<ul style="list-style-type: none"> <li>• Generation of a number of employment opportunities.</li> <li>• Stimulation of the local economy.</li> </ul>
<b>Socio-economic</b>	Post-construction and Rehabilitation Phase	<ul style="list-style-type: none"> <li>• Generation of a number of employment opportunities.</li> <li>• Stimulation of the local economy.</li> </ul>
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
	Construction Phase	
	Operational Phase	<ul style="list-style-type: none"> <li>• Increase in traffic volumes to the site.</li> </ul>
<b>Traffic</b>	Post-construction and Rehabilitation	
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.
	Construction Phase	<ul style="list-style-type: none"> <li>• Increased risk of fire due to construction/operational activities and increased human activity.</li> </ul>
	Operational Phase	
<b>Fire Risk</b>	Post-construction and Rehabilitation	None anticipated
	Decommissioning Phase	No decommissioning activities are anticipated or planned for the proposed project. Therefore, no impacts have been identified or assessed as part of this Environmental Impact Assessment process.

## Cumulative Impacts

*Cumulative Impacts can be defined as the changes experienced within the environment that are caused by an action in combination with past, present and future human actions (environment.gov.za).*

The release of greenhouse gas emissions from vehicles and trucks such as:

- Carbon Dioxide (CO<sub>2</sub>);
- Carbon Monoxide (CO);
- Nitrogen Oxide (NO); and
- Sulphur Dioxide (SO<sub>2</sub>)

The above mentioned gasses will combine with other greenhouse gasses in the atmosphere and contribute towards the global Climate Change effect.

The impacts have been fully assessed under Section 9.3 of this report

## 8.5 Methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks associated with the alternatives

Please refer to Sections 9.1 and 9.2 of this report.

## 8.6 Positive and negative impacts that the proposed activity and alternatives will have on the environment and on the community that may be affected

As detailed under Section 8.4 above.

## 8.7 Possible mitigation measures that could be applied and level of residual risk

The following table contains possible mitigation measures that can be applied to mitigate the identified impacts. Detailed mitigation measures have also been included in the Environmental Management Programme (EMPr) that forms part of this Basic Assessment Report.

Table 5: Possible Mitigation Measures

Impact	Possible mitigation measures
<b>Planning and Design Phase</b>	
Inadequate planning and design of facilities that could result in environmental impacts that could have been avoided.	<p><b>Site selection</b></p> <ul style="list-style-type: none"> <li>• The new infrastructure should preferably be constructed on an already disturbed site.</li> <li>• The new infrastructure may not be constructed on a wetland or within a drainage line.</li> <li>• The new infrastructure must preferably be constructed on a level/flat site.</li> <li>• The site must have the correct land use zoning to enable the new infrastructure to be constructed and operated.</li> </ul> <p><b>Design of facilities</b></p> <ul style="list-style-type: none"> <li>• Impermeable foundations (such as concrete foundations) must be designed.</li> <li>• An adequate number of fire extinguishers must be provided for.</li> </ul>
Residual risk: None anticipated.	
<b>Pre-construction Phase</b>	



Impact	Possible mitigation measures
<ul style="list-style-type: none"> <li>• Unauthorised access to the construction site that can pose a risk to the public in terms of their safety.</li> <li>• Unsafe working conditions.</li> </ul> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• The construction site must be demarcated (fenced or delineated with danger tape). Permanent demarcation is preferable to prevent the public from gaining access to the site.</li> <li>• Signage indicating that the site is a “Construction Site” and indicating the risks associated with the site must be displayed. Emergency numbers, “No-smoking” signs and “No Open Flame” signs must also be displayed at the construction site.</li> <li>• Fire-fighting equipment must be placed at the construction site and must be easily accessible.</li> <li>• A First Aid Kit that is fully equipped must be readily available onsite.</li> </ul>
<p>Workers being unaware of the dangers of working at the construction site, resulting in a risk to their safety.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Before any employees or contractors commence work at the proposed project site, each individual must undergo an Induction Training session that will cover the aspects as detailed in the Environmental Awareness Plan (contained in the EMPr). Attendance registers must be completed and kept on file.</li> <li>• Employees and contract workers must be issued with suitable Personal Protective Equipment (PPE), as applicable to each persons’ job onsite.</li> </ul>
<b>Surface and Groundwater</b>	
<b>Construction Phase</b>	
<p>Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from construction vehicles.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Spill kits must be onsite to clean up any hydrocarbon spillages.</li> <li>• Vehicles should regularly be inspected to ensure that any fuel or oil leaks are repaired.</li> </ul>
<p>Pollution of surface and/or groundwater resources due to spillages from chemical toilets.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Sufficient ablution facilities must be provided.</li> <li>• Chemical toilets must be serviced regularly.</li> <li>• Any spillages from the chemical toilets must immediately be cleaned and the contaminated soil disposed of as hazardous waste.</li> </ul>
<p>Pollution of surface and/or groundwater resources due to the incorrect management, storage and disposal of construction waste.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Construction waste must be stored in a designated area.</li> <li>• Building rubble must be stored separately from domestic waste.</li> <li>• Refuse bins must be provided for domestic waste.</li> <li>• Building rubble must be kept clean of plastic and brick ties.</li> <li>• Large volumes of waste may not accumulate onsite.</li> </ul>
<p>Pollution of surface and/or groundwater resources due to the runoff of contaminated storm water.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Storm water must be diverted around areas where there are pollution sources.</li> <li>• No contaminated storm water may be released into the environment from construction activities.</li> <li>• Storm water drainage infrastructure must be regularly inspected for obstructions.</li> </ul>
<p>Pollution of surface and/or groundwater resources from the mixing of concrete.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Concrete should ideally be mixed on an impermeable surface such as a concrete slab.</li> <li>• Bricklayers and plasters are to keep the working area clean of any spill or run-off.</li> </ul>

Impact	Possible mitigation measures
	<ul style="list-style-type: none"> <li>Contaminated soil as a result of a cement or concrete spillage must be removed immediately and disposed of in the correct manner.</li> <li>Cement bags (new and used) must be stored under roof or in closed containers where they will not be exposed to rain.</li> <li>Dry concrete must be removed and disposed of together with other building rubble.</li> </ul>
<p>The wastage of water resources (borehole water supply) due to the irresponsible use of water. Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>Water pipes and hoses should be inspected on a regular basis and any leakages should immediately be repaired.</li> <li>Running water taps or hoses may not be left unattended.</li> </ul>
<b>Operational Phase</b>	
<p>Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from vehicles.  Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>Spill kits must be onsite to clean up any hydrocarbon spillages.</li> <li>Vehicles should regularly be inspected to ensure that any fuel or oil leaks are repaired.</li> </ul>
<p>Pollution of surface and/or groundwater resources due to the incorrect management, storage and disposal of waste.  Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>Waste must be managed according to its hazard classification (i.e. general vs. hazardous waste) and general and hazardous waste streams should not be mixed.</li> <li>Waste stored onsite must be kept in appropriate containers with lids that can be closed.</li> <li>Waste must be taken to appropriately licensed facilities for reuse, recycling, recovery or disposal (last resort).</li> </ul>
<p>Pollution of surface and/or groundwater resources due to the runoff of contaminated stormwater.</p>	<ul style="list-style-type: none"> <li>Storm water must be diverted around areas where there are pollution sources.</li> <li>Storm water drainage infrastructure must be regularly inspected for obstructions.</li> <li>No contaminated storm water may be released into the environment from the construction activities.</li> <li>Washing or cleaning of equipment or machinery must occur in a designated area and the contaminated wash water must be contained. Such an area could be a plastic drum, a container or a plastic lined pit.</li> <li>Wash water from the wash bay must be contained and not released into the environment.</li> </ul>
<p>Pollution of surface and/or groundwater resources due to leakages from the sewerage network (pipelines) onsite.  Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>Ablution facilities must regularly be cleaned.</li> <li>Should toilets run slowly or become blocked, this should be investigated to ensure that this is not due to a broken or blocked pipe underground.</li> <li>Any broken or blocked pipes must be repaired.</li> </ul>
<p>The wastage of resources (borehole water supply and electricity) due to the irresponsible use of water and electricity.  Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>Consumption of water and electricity must be monitored.</li> <li>Use energy efficient lighting, where possible.</li> <li>Switch off lights and appliances when not in use.</li> <li>Water pipes and hoses should be inspected on a regular basis and any leakages should immediately be repaired.</li> <li>Running water taps or hoses may not be left unattended.</li> </ul>

Impact		Possible mitigation measures	
<b>Post-construction and Rehabilitation Phase</b>			
Pollution of surface and/or groundwater resources due to hydrocarbon spillages or leakages from construction vehicles.		Same mitigation measures as under construction phase.	
Residual risk: None anticipated.			
<b>Fauna</b>			
<b>Construction Phase</b>			
Loss of low quality fauna habitat (degraded/disturbed vegetation cover) during site clearance.		No mitigation measures required as the site is in a degraded/disturbed state.	
Residual risk: None anticipated.			
Disturbance of any fauna species that may be present onsite.		<ul style="list-style-type: none"> <li>• Fauna species may not be disturbed, captured or killed.</li> <li>• Should animals be encountered during the development, these should be relocated (by a suitably qualified specialist) to natural vegetation areas in the vicinity of the site.</li> </ul>	
Residual risk: None anticipated.			
<b>Operational Phase</b>			
Disturbance of any fauna species that may be present onsite.		Same mitigation measures as under construction phase.	
Residual risk: None anticipated.			
Provision of artificial habitat for fauna species.		This is a positive impact and no mitigation measures are therefore required.	
Residual risk: Not applicable.			
<b>Post-construction and Rehabilitation Phase</b>			
Disturbance of any fauna species that may be present onsite.		Same mitigation measures as under construction phase.	
Residual risk: None anticipated.			
<b>Flora</b>			
<b>Construction Phase</b>			
Loss of degraded/disturbed vegetation (Eastern Highveld grassland) during site clearance.		No mitigation measures required as the site is in a degraded/disturbed state.	
Residual risk: None anticipated.			
Spread of alien invasive vegetation.		<ul style="list-style-type: none"> <li>• Use only indigenous plant species for gardens and rehabilitation.</li> <li>• Eradicate any alien invasive vegetation observed onsite.</li> </ul>	
Residual risk: None anticipated.			
<b>Operational Phase</b>			

<b>Impact</b>		<b>Possible mitigation measures</b>	
Establishment and spread of alien invasive vegetation (onsite and further than the site).		Same mitigation measures as under construction phase.	
Residual risk: None anticipated.			
<b>Post-construction and Rehabilitation Phase</b>			
Establishment and spread of alien invasive vegetation (onsite and further than the site).		Same mitigation measures as under construction phase.	
Residual risk: None anticipated.			
<b>Heritage Resources</b>			
<b>Construction Phase</b>			
Disturbance or destruction of cultural and heritage resources.		If any cultural or heritage resources, sites, features or objects are exposed during the construction activities, all construction activities in the area must be stopped and a heritage specialist must be contacted to investigate the site and recommend the way forward.	
Residual risk: None anticipated.			
<b>Operational Phase</b>			
None anticipated.		Not applicable.	
Residual risk: None anticipated.			
<b>Post-construction and Rehabilitation Phase</b>			
None anticipated.		Not applicable.	
Residual risk: None anticipated.			
<b>Palaeontological Resources</b>			
<b>Construction Phase</b>			
Very high possibility that significant fossil assemblages will be present beneath the site. The disturbance and/or destruction of the fossil assemblages.		<ul style="list-style-type: none"> <li>• A field assessment by a qualified palaeontologist must be conducted.</li> <li>• A Protocol of Fossil Finds must be compiled and submitted to the South African Heritage Resources Agency. The protocol must be implemented during the construction phase.</li> </ul>	
Residual risk: None anticipated.			
<b>Operational Phase</b>			
None anticipated.		Not applicable.	
Residual risk: None anticipated.			
<b>Post-construction and Rehabilitation Phase</b>			
None anticipated.		Not applicable.	
Residual risk: None anticipated.			
<b>Air Quality and Noise</b>			
<b>Construction Phase</b>			
Generation of dust by construction vehicles.		<ul style="list-style-type: none"> <li>• Implement dust suppression techniques.</li> <li>• Limit vegetation clearance until it is necessary for soil stripping.</li> </ul>	

Impact	Possible mitigation measures
Residual risk: None anticipated.	<ul style="list-style-type: none"> <li>• A complaints register must be kept onsite and be easily accessible to any party who wishes to lodge a complaint. The complaints register must include the following fields: <ul style="list-style-type: none"> <li>▪ The date of the complaint;</li> <li>▪ The name and surname of the person lodging the complaint;</li> <li>▪ Details of the complaint; and</li> <li>▪ How and when the complaint was addressed.</li> </ul> </li> </ul>
Release of emissions from construction vehicles.  Residual risk: None anticipated.	<ul style="list-style-type: none"> <li>• Regular maintenance of vehicles to minimise the release of emissions.</li> </ul>
Generation of nuisance and noise from construction vehicles and equipment/machinery.  Residual risk: None anticipated.	<ul style="list-style-type: none"> <li>• Noisy activities must be scheduled during times of the day that will result in the least disturbance to adjacent sensitive receptors.</li> <li>• Noisy work must be avoided on weekends and public holidays.</li> <li>• Vehicles must not be left idling unnecessarily.</li> <li>• All vehicles must be regularly maintained.</li> </ul>
<b>Operational Phase</b>	
Generation of dust by vehicles onsite.  Residual risk: None anticipated.	<ul style="list-style-type: none"> <li>• Implement dust suppression techniques, if required (for example, if there are any unpaved areas).</li> </ul>
Release of emissions from vehicles.  Residual risk: None anticipated.	Same mitigation measures as under construction phase.
Generation of nuisance and noise from vehicles.  Residual risk: None anticipated.	Same mitigation measures as under construction phase.
<b>Post-construction and Rehabilitation Phase</b>	
Generation of dust by construction vehicles.  Residual risk: None anticipated.	Same mitigation measures as under construction phase.
Release of emissions from construction vehicles.  Residual risk: None anticipated.	Same mitigation measures as under construction phase.
Generation of nuisance and noise from construction vehicles and equipment/machinery.  Residual risk: None anticipated.	Same mitigation measures as under construction phase.
<b>Soil</b>	
<b>Construction Phase</b>	

Impact	Possible mitigation measures
<p>Soil pollution due to hydrocarbon spillages or leakages from construction vehicles.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Use drip trays for any machinery and/or vehicle repair work.</li> <li>• Immediately repair any leaking machinery or vehicles.</li> <li>• Place oil drums on impermeable surfaces or plastic liners.</li> <li>• Immediately clean any hydrocarbon spillages and dispose of as hazardous waste.</li> </ul>
<p>Soil pollution due to spillages from chemical toilets.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Sufficient ablution facilities must be provided.</li> <li>• Chemical toilets must be serviced regularly.</li> <li>• Any spillages from the chemical toilets must immediately be cleaned and the contaminated soil disposed of as hazardous waste.</li> </ul>
<p>Soil pollution due to the incorrect management, storage and disposal of waste (general and hazardous waste).</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Waste must be managed according to its hazard classification (i.e. general vs. hazardous waste) and general and hazardous waste streams should not be mixed.</li> <li>• Waste stored onsite must be kept in appropriate containers with lids that can be closed.</li> <li>• Waste must be taken to appropriately licensed facilities for reuse, recycling, recovery or disposal.</li> </ul>
<p>Soil pollution of surface and/or groundwater resources from the mixing of concrete.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Concrete should ideally be mixed on an impermeable surface such as a concrete slab.</li> <li>• Bricklayers and plasters are to keep the working area clean of any spill or run-off.</li> <li>• Contaminated soil as a result of a cement or concrete spillage must be removed immediately and disposed of in the correct manner.</li> <li>• Cement bags (new and used) must be stored under roof or in closed containers where they will not be exposed to rain.</li> <li>• Dry concrete must be removed and disposed of together with other building rubble.</li> </ul>
<p>Soil erosion due to the clearance of vegetation and the removal of topsoil and subsoil.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Limit vegetation clearance until it is necessary for soil stripping.</li> <li>• Implement adequate erosion prevention measures, such as measures to dissipate runoff water velocities.</li> <li>• Implement adequate storm water management measures.</li> </ul>
<p>Soil compaction to create foundations for buildings and other associated infrastructure.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Soils should be moved when dry, as far as possible.</li> <li>• Excessively heavy vehicles should not be used for earthmoving activities. This will minimise compaction of the soil.</li> </ul>
<p>Degradation of topsoil due to incorrect storage practices.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Topsoil and subsoil must be stored on separate stockpiles.</li> <li>• Cover topsoil stockpiles to prevent the soil being washed away during rainfall events.</li> </ul>
<b>Operational Phase</b>	
<p>Soil pollution due to hydrocarbon spillages or leakages from vehicles.</p> <p>Residual risk: None anticipated.</p>	<p>Same mitigation measures as under construction phase.</p>



Impact	Possible mitigation measures
<p>Soil pollution due to the incorrect management, storage and disposal of waste (general and hazardous waste).</p> <p>Residual risk: None anticipated.</p>	<p>Same mitigation measures as under construction phase.</p>
<p>Soil pollution due to leakages from the sewerage network (pipelines) onsite.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Ablution facilities must regularly be cleaned.</li> <li>• Should toilets run slowly or become blocked, this should be investigated to ensure that this is not due to a broken or blocked pipe underground.</li> <li>• Any broken or blocked pipes must be repaired.</li> </ul>
<b>Post-construction and Rehabilitation Phase</b>	
<p>Soil erosion due to inefficient rehabilitation of construction areas.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Rehabilitation must already be initiated during the construction phase, where possible.</li> </ul>
<b>Socio-economic</b>	
<b>Construction Phase</b>	
<p>Generation of a number of employment opportunities.</p> <p>Residual risk: Not applicable.</p>	<p>This is a positive impact and no mitigation measures are therefore required.</p>
<p>Potential increase in crime due to the influx of workers.</p> <p>Residual risk: None anticipated.</p>	<ul style="list-style-type: none"> <li>• Reference checks should be conducted on all workers before they are appointed.</li> <li>• Workers should not be allowed to leave the construction site during the day and should be transported to and from the site on a daily basis.</li> </ul>
<p>Stimulation of the local economy.</p> <p>Residual risk: Not applicable.</p>	<p>This is a positive impact and no mitigation measures are therefore required.</p>
<b>Operational Phase</b>	
<p>Generation of a number of employment opportunities.</p> <p>Residual risk: Not applicable.</p>	<p>This is a positive impact and no mitigation measures are therefore required.</p>
<p>Stimulation of the local economy.</p> <p>Residual risk: Not applicable.</p>	<p>This is a positive impact and no mitigation measures are therefore required.</p>
<b>Post-construction and Rehabilitation Phase</b>	
<p>Generation of a number of employment opportunities.</p> <p>Residual risk: Not applicable.</p>	<p>This is a positive impact and no mitigation measures are therefore required.</p>
<p>Stimulation of the local economy.</p> <p>Residual risk: Not applicable.</p>	<p>This is a positive impact and no mitigation measures are therefore required.</p>

<b>Impact</b>	<b>Possible mitigation measures</b>
<b>Traffic</b>	
<b>Construction Phase</b>	
Increase in traffic volumes to the site.  Residual risk: None anticipated.	<ul style="list-style-type: none"> <li>• Ensure that construction vehicles are roadworthy and that drivers comply with road rules.</li> <li>• Loads must be securely fastened and may not exceed the tonnage limitations for each vehicle.</li> <li>• Provide separate entry and exit gateways for pedestrians and vehicles.</li> <li>• Plan storage areas so that delivery vehicles do not need to cross the site.</li> <li>• Construction vehicles to make use of roads with less vehicle movement.</li> </ul>
<b>Operational Phase</b>	
None anticipated. Residual risk: None anticipated.	Not applicable.
<b>Post-construction and Rehabilitation Phase</b>	
None anticipated. Residual risk: None anticipated.	Not applicable.
<b>Fire Risk</b>	
<b>Construction Phase</b>	
The potential for fire establishment at the construction area and its subsequent risk to human life and infrastructure.  Residual risk: None anticipated.	<ul style="list-style-type: none"> <li>• Access to fire-fighting equipment must at all times be unobstructed.</li> <li>• Emergency numbers must be clearly displayed at the construction site.</li> <li>• Where welding, hot-work and flame-cutting are undertaken, fire-fighting equipment must be at hand.</li> </ul>
<b>Operational Phase</b>	
The potential for fire establishment or explosions at the proposed site and its subsequent risk to human life and infrastructure.  Residual risk: None anticipated.	<ul style="list-style-type: none"> <li>• An Emergency Response Plan must be compiled for the proposed site.</li> <li>• The fire-fighting system and all fire-fighting equipment must be inspected on an annual basis by a suitably qualified person and records kept on file.</li> <li>• The fire-fighting system and all fire-fighting equipment must be to the satisfaction of the municipal fire authority.</li> </ul>
<b>Post-construction and Rehabilitation Phase</b>	
None anticipated. Residual risk: None anticipated.	Not applicable.

## **8.8 Outcome of the site selection matrix**

The outcome of the site selection matrix was discussed under Section 8.1.1 of this report.

## **8.9 Motivation for not considering alternatives**

The motivation for not considering certain alternatives was discussed under Section 8.1 of this report.

## **8.10 Concluding statement**

The preferred alternative is the proposed project/development (Establishment of a new Township on Portion 513 of the Farm Naauwpoort 335 JS for Industrial Use) and the preferred location for the development is the project property, as detailed under Section 4 of this report.

## **9. THE PROCESS UNDERTAKEN TO IDENTIFY, ASSESS AND RANK THE IMPACTS THAT THE ACTIVITY WILL IMPOSE ON THE PREFERRED LOCATION THROUGH THE LIFE OF THE ACTIVITY**

According to the Environmental Impact Assessment Regulations, 2014, the objective of the basic environmental impact assessment process is to, through a consultative process-

- (a) determine the policy and legislative context within which the activity is located and document how the proposed activity complies with and responds to the policy and legislative context;
- (b) identify the alternatives considered, including the activity, location, and technology alternatives;
- (c) describe the need and desirability of the proposed alternatives;
- (d) through the undertaking of an impact and risk assessment process, inclusive of cumulative impacts which focused on determining the geographical, physical, biological, social, economic, heritage, and cultural sensitivity of the sites and locations within sites and the risk of impact of the proposed activity and technology alternatives on these aspects to determine–
  - (i) the nature, significance, consequence, extent, duration, and probability of the impacts occurring to; and
  - (ii) the degree to which these impacts–
    - (aa) can be reversed;
    - (bb) may cause irreplaceable loss of resources; and
    - (cc) can be avoided, managed or mitigated; and
- (e) through a ranking of the site sensitivities and possible impacts the activity and technology alternatives will impose on the sites and location identified through the life of the activity to–
  - (i) identify and motivate a preferred site, activity and technology alternative;
  - (ii) identify suitable measures to avoid, manage or mitigate identified impacts; and
  - (iii) identify residual risks that need to be managed and monitored.

### **9.1 Description of all environmental issues and risks that were identified during the Environmental Impact Assessment process – process undertaken**

Elements of the proposed development that can interact with the environment are deemed to be environmental aspects. These have been identified during the Environmental Impact Assessment process, for each phase of the proposed development. Thereafter, the potential impacts that can result from the development's aspects have been identified. The impacts, whether positive or negative, are defined as any change to the environment resulting from the identified environmental aspects.

All environmental issues and risks that were identified as part of this Environmental Impact Assessment process have been listed under Section 8.4 of this report. The aspects can be seen in the tables under Section 9.3 of this report.

## 9.2 Assessment of the significance of each issue and risk and an indication of the extent to which the issue and risk could be avoided or addressed by the adoption of mitigation measures – process undertaken

Assessing the significance of the potential impacts has been conducted using the following parameters. Direct, indirect and cumulative impacts have been assessed.

The **nature** of the impact: This will include a qualitative description of what caused the impact and how it will affect the environment;

The **extent** of the impact: The size (physical/geographical) that will be affected by the impact. The following weighting will be used:

- Onsite: Weighting value **1**: The impact is confined to the project site/property
- Local: Weighting value **2**: The impact is confined to the project site/property and a 10km radius around the project site/property
- Regional: Weighting value **3**: The impact extends further than a 10km radius around the project site/property

The **duration** of the impact: The length of time over which the impact will persist. The following weighting will be used:

- Short term: Weighting value **1**: The impact will persist for up to one year
- Medium term: Weighting value **2**: The impact will persist for longer than one year, but shorter than five years
- Long term: Weighting value **3**: The impact will persist for longer than five years

The **magnitude** of the impact: The intensity of the impact on the environment. The following weighting will be used:

- Low: Weighting value **1**: Natural processes continue, albeit in an altered manner
- Medium: Weighting value **2**: Natural processes cease temporarily
- High: Weighting value **3**: Natural processes cease indefinitely

The **probability** of the impact: How likely it is that the impact will happen. The following weighting will be used:

- Improbable: Weighting value **1**: It is unlikely that the impact will occur
- Probable: Weighting value **2**: There is a chance that the impact will occur
- Definite: Weighting value **3**: The impact will most certainly occur

The **status** of the impact: This will include a qualitative description of the following:

- Whether the impact is **positive** or **negative** in nature
- The degree to which the impact can be reversed
- The degree to which the impact can be mitigated
- The degree to which the impact may cause irreplaceable loss of resources

The **significance** of the impact: This will be calculated using the formula below:

Significance = (Duration + Extent + Magnitude) x Probability

The significance of the impact will be divided into the following classes, based on the result of the above given equation:

- **Low Impact: Weighting value: 1-9**
- **Medium Impact: Weighting value: 10-18**
- **High Impact: Weighting value: 19-27**

The aspects to be assessed by specialists have been listed under Section 9.4. The impacts of the proposed project will be assessed by each specialist, mostly also using the following formula:

$$\text{Significance} = (\text{Duration} + \text{Extent} + \text{Magnitude}) \times \text{Probability}$$

### 9.3 Assessment of each identified potentially significant impact and risk, including cumulative impacts; the nature, significance and consequences of the impact and risk; the extent and duration of the impact and risk; the probability of the impact and risk occurring; the degree to which the impact and risk can be reversed; the degree to which the impact and risk may cause irreplaceable loss of resources; and the degree to which the impact and risk can be avoided, managed or mitigated

The following aspects have been assessed as part of the Environmental Impact Assessment process:

- Surface and groundwater;
- Fauna;
- Flora;
- Heritage resources;
- Palaeontological resources;
- Air quality and noise;
- Soil;
- Socio-economic;
- Traffic;
- Safety.

The following tables discuss the impacts and risks identified for each alternative, including the nature, significance, consequences, extent, duration and probability of the impacts, including the degree to which the impacts can be reversed; may cause irreplaceable loss of resources; and can be avoided, managed or mitigated.

#### Preferred Alternative – Establishment of New Township on Portion 513 of the Farm Naauwpoort 335 JS for Industrial Use

##### Planning and Design Phase

Aspect	Planning and design of facilities.	
Impact and Nature	Inadequate planning and design of facilities that could result in environmental impacts that could have been avoided.	
Impact Rating	Before mitigation	After mitigation
<b>Planning and Design Phase</b>		
Extent	2	1
Duration	2	2
Magnitude	2	1
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>
<b>Construction Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		



Operational Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Post-construction and Rehabilitation Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Status of Impact	
Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	Medium degree
Degree to which impact can be avoided, managed or mitigated	High degree

### Pre-construction Phase

Aspect	Construction site establishment.
Impact and Nature	<ul style="list-style-type: none"> <li>Unauthorised access to the construction site that can pose a risk to the public in terms of their safety.</li> <li>Unsafe working conditions.</li> </ul>

Impact Rating	Before mitigation	After mitigation
	Pre-construction Phase	
Extent	1	1
Duration	2	1
Magnitude	3	2
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>

Construction Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Operational Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Post-construction and Rehabilitation Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Status of Impact	

Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	High degree
Degree to which impact can be avoided, managed or mitigated	High degree

Aspect	Appointment of workers (employees and contractors) to commence construction activities onsite.
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Impact and Nature	Workers being unaware of the dangers of working at the construction site, resulting in a risk to their safety.
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Impact Rating	Before mitigation	After mitigation
	Pre-construction Phase	
Extent	1	1
Duration	2	1
Magnitude	3	2
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>

Construction Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Operational Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Post-construction and Rehabilitation Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Status of Impact	
Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	High degree
Degree to which impact can be avoided, managed or mitigated	High degree

## Surface and Groundwater

Aspect	Hydrocarbon spillages or leakages from vehicles, including construction vehicles.
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Impact and Nature	Pollution of surface and/or groundwater resources.
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Impact Rating	Before mitigation	After mitigation
	Construction Phase	
Extent	2	1

Duration	2	1
Magnitude	2	1
Probability	2	1
Significance	<b>12 - Medium</b>	<b>3 - Low</b>
<b>Operational Phase</b>		
Extent	2	1
Duration	3	2
Magnitude	2	1
Probability	2	1
Significance	<b>14 - Medium</b>	<b>4 - Low</b>
<b>Post-construction and Rehabilitation Phase</b>		
Extent	1	1
Duration	2	1
Magnitude	2	1
Probability	2	1
Significance	<b>10 - Medium</b>	<b>3 - Low</b>
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Medium degree	
Degree to which impact may cause irreplaceable loss of resources	Medium degree	
Degree to which impact can be avoided, managed or mitigated	High degree	
Aspect	Spillages from chemical toilets (construction phase) and the sewerage network pipelines (operational phase).	
Impact and Nature	Pollution of surface and/or groundwater resources.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent	2	1
Duration	2	1
Magnitude	2	2
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>
<b>Operational Phase</b>		
Extent	2	1
Duration	3	2
Magnitude	3	2
Probability	2	1
Significance	<b>16 - Medium</b>	<b>5 - Low</b>
<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Medium degree	
Degree to which impact may cause irreplaceable loss of resources	Medium degree	

Degree to which impact can be avoided, managed or mitigated	High degree
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Aspect	Mixing of concrete.
Impact and Nature	Pollution of surface and/or groundwater resources.

Impact Rating	Before mitigation	After mitigation
<b>Construction Phase</b>		
Extent	2	1
Duration	2	1
Magnitude	2	2
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>

<b>Operational Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		

<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		

<b>Status of Impact</b>	
Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	Medium degree
Degree to which impact can be avoided, managed or mitigated	High degree

Aspect	Incorrect management, storage and disposal of waste, including construction waste.
Impact and Nature	Pollution of surface and/or groundwater resources.

Impact Rating	Before mitigation	After mitigation
<b>Construction Phase</b>		
Extent	2	1
Duration	2	1
Magnitude	2	2
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>

<b>Operational Phase</b>		
Extent	2	1
Duration	3	2
Magnitude	3	2
Probability	2	1
Significance	<b>16 - Medium</b>	<b>5 - Low</b>

<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		

Probability		
Significance		
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Medium degree	
Degree to which impact may cause irreplaceable loss of resources	Medium degree	
Degree to which impact can be avoided, managed or mitigated	High degree	
Aspect	Runoff of contaminated stormwater.	
Impact and Nature	Pollution of surface and/or groundwater resources.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent	2	1
Duration	2	1
Magnitude	2	2
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>
<b>Operational Phase</b>		
Extent	2	1
Duration	3	2
Magnitude	3	2
Probability	2	1
Significance	<b>16 - Medium</b>	<b>5 - Low</b>
<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Medium degree	
Degree to which impact may cause irreplaceable loss of resources	Medium degree	
Degree to which impact can be avoided, managed or mitigated	High degree	
Aspect	The usage of water (borehole water supply) and electricity.	
Impact and Nature	Wastage of resources due to the irresponsible use.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent	2	1
Duration	2	1
Magnitude	2	1
Probability	2	1
Significance	<b>12 - Medium</b>	<b>3 - Low</b>
<b>Operational Phase</b>		
Extent	2	1
Duration	3	1
Magnitude	3	2

Probability	2	1
Significance	<b>16 - Medium</b>	<b>4 - Low</b>

**Post-construction and Rehabilitation Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Status of Impact**

Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	Medium degree
Degree to which impact can be avoided, managed or mitigated	High degree

**Fauna**

Aspect	Site clearance.
Impact and Nature	Loss of low quality fauna habitat (degraded/disturbed vegetation cover), affecting the ecosystem, biological diversity and ecological integrity of the site.

Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
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**Construction Phase**

Extent	1	1
Duration	2	2
Magnitude	2	2
Probability	3	1
Significance	<b>15 - Medium</b>	<b>5 - Low</b>

**Operational Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Post-construction and Rehabilitation Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Status of Impact**

Consequence	Negative
Degree to which impact can be reversed	High degree
Degree to which impact may cause irreplaceable loss of resources	Low degree
Degree to which impact can be avoided, managed or mitigated	High degree

Aspect	Construction, operation and rehabilitation activities.
Impact and Nature	Disturbance of any fauna species that may be present onsite.

Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
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**Construction Phase**



Extent	1	1
Duration	1	1
Magnitude	2	1
Probability	2	1
Significance	<b>8 - Low</b>	<b>3 - Low</b>
<b>Operational Phase</b>		
Extent	1	1
Duration	1	1
Magnitude	2	1
Probability	1	1
Significance	<b>4 - Low</b>	<b>3 - Low</b>
<b>Post-construction and Rehabilitation Phase</b>		
Extent	1	1
Duration	2	1
Magnitude	2	1
Probability	1	1
Significance	<b>5 - Low</b>	<b>3 - Low</b>
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	High degree	
Degree to which impact may cause irreplaceable loss of resources	Low degree	
Degree to which impact can be avoided, managed or mitigated	High degree	
Aspect	Operational activities.	
Impact and Nature	Provision of artificial habitat for fauna species.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Operational Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance	Positive impact	No mitigation required – positive impact
<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Status of Impact</b>		
Consequence	Positive	
Degree to which impact can be reversed	N/A – positive impact	
Degree to which impact may cause irreplaceable loss of resources	N/A – positive impact	

Degree to which impact can be avoided, managed or mitigated	N/A – positive impact
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## Flora

Aspect	Site clearance.	
Impact and Nature	Loss of degraded/disturbed vegetation (Eastern Highveld grassland).	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent	1	1
Duration	3	2
Magnitude	2	1
Probability	3	1
Significance	<b>18 - Medium</b>	<b>4 - Low</b>
<b>Operational Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	High degree	
Degree to which impact may cause irreplaceable loss of resources	Low degree	
Degree to which impact can be avoided, managed or mitigated	High degree	

Aspect	Construction, operation and rehabilitation activities.	
Impact and Nature	Establishment and spread of alien invasive vegetation (onsite and further than the site).	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent	2	1
Duration	2	1
Magnitude	2	1
Probability	3	2
Significance	<b>18 - Medium</b>	<b>6 - Low</b>
<b>Operational Phase</b>		
Extent	2	1
Duration	3	2
Magnitude	3	2
Probability	2	1
Significance	<b>16 - Medium</b>	<b>5 - Low</b>
<b>Post-construction and Rehabilitation Phase</b>		
Extent	2	1
Duration	2	2

Magnitude	2	2
Probability	3	1
Significance	<b>18 - Medium</b>	<b>5 - Low</b>
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	High degree	
Degree to which impact may cause irreplaceable loss of resources	Medium degree	
Degree to which impact can be avoided, managed or mitigated	High degree	

### Heritage Resources

Aspect	Construction activities.	
Impact and Nature	Disturbance or destruction of cultural and heritage resources.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent	1	1
Duration	3	3
Magnitude	3	1
Probability	2	1
Significance	<b>14 - Medium</b>	<b>5 - Low</b>
<b>Operational Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Low degree	
Degree to which impact may cause irreplaceable loss of resources	Medium degree	
Degree to which impact can be avoided, managed or mitigated	High degree	

### Palaeontological resources

Aspect	Construction activities.	
Impact and Nature	The disturbance and/or destruction of the fossil assemblages.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent	1	1
Duration	3	3
Magnitude	3	1
Probability	2	1
Significance	<b>14 - Medium</b>	<b>5 - Low</b>

Operational Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Post-construction and Rehabilitation Phase		
Extent		
Duration		
Magnitude		
Probability		
Significance		

Status of Impact	
Consequence	Negative
Degree to which impact can be reversed	Low degree
Degree to which impact may cause irreplaceable loss of resources	High degree
Degree to which impact can be avoided, managed or mitigated	High degree

#### Air Quality and Noise

Aspect	Construction, operation and rehabilitation activities.	
Impact and Nature	Generation of dust by vehicles, including construction vehicles.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>

Construction Phase		
Extent	2	1
Duration	1	1
Magnitude	2	1
Probability	3	2
Significance	<b>15 - Medium</b>	<b>6 - Low</b>

Operational Phase		
Extent	2	1
Duration	3	1
Magnitude	3	2
Probability	2	2
Significance	<b>16 - Medium</b>	<b>8 - Low</b>

Post-construction and Rehabilitation Phase		
Extent	2	1
Duration	1	1
Magnitude	2	1
Probability	3	2
Significance	<b>15 - Medium</b>	<b>6 - Low</b>

Status of Impact	
Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	Medium degree
Degree to which impact can be avoided, managed or mitigated	High degree

Aspect	Construction, operation and rehabilitation activities.
Impact and Nature	Release of emissions from vehicles, including construction vehicles.

Impact Rating	Before mitigation	After mitigation
<b>Construction Phase</b>		
Extent	3	2
Duration	1	1
Magnitude	2	2
Probability	3	2
Significance	<b>18 - Medium</b>	<b>10 - Medium</b>
<b>Operational Phase</b>		
Extent	3	2
Duration	3	1
Magnitude	2	2
Probability	3	2
Significance	<b>24 - High</b>	<b>10 - Medium</b>
<b>Post-construction and Rehabilitation Phase</b>		
Extent	3	2
Duration	1	1
Magnitude	2	2
Probability	3	2
Significance	<b>18 - Medium</b>	<b>10 - Medium</b>
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Low degree	
Degree to which impact may cause irreplaceable loss of resources	Medium degree	
Degree to which impact can be avoided, managed or mitigated	Low degree	
Aspect	Construction, operation and rehabilitation activities.	
Impact and Nature	Generation of nuisance and noise from vehicles (including construction vehicles) and equipment/machinery. This also includes nuisance and noise from maintenance activities.	
Impact Rating	Before mitigation	After mitigation
<b>Construction Phase</b>		
Extent	2	1
Duration	1	1
Magnitude	2	1
Probability	3	2
Significance	<b>15 - Medium</b>	<b>6 - Low</b>
<b>Operational Phase</b>		
Extent	2	1
Duration	3	1
Magnitude	2	1
Probability	2	2
Significance	<b>14 - Medium</b>	<b>6 - Low</b>
<b>Post-construction and Rehabilitation Phase</b>		
Extent	2	1
Duration	1	1
Magnitude	2	1
Probability	3	2
Significance	<b>15 - Medium</b>	<b>6 - Low</b>
<b>Status of Impact</b>		
Consequence	Negative	

Degree to which impact can be reversed	Low degree
Degree to which impact may cause irreplaceable loss of resources	Medium degree
Degree to which impact can be avoided, managed or mitigated	Medium degree

## Soil

Aspect	Hydrocarbon spillages or leakages from vehicles, including construction vehicles.	
Impact and Nature	Soil pollution.	
Impact Rating	Before mitigation	After mitigation
<b>Construction Phase</b>		
Extent	2	1
Duration	2	2
Magnitude	2	1
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>
<b>Operational Phase</b>		
Extent	2	1
Duration	3	2
Magnitude	3	2
Probability	2	1
Significance	<b>16 - Medium</b>	<b>5 - Low</b>
<b>Post-construction and Rehabilitation Phase</b>		
Extent	2	1
Duration	2	2
Magnitude	2	1
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Medium degree	
Degree to which impact may cause irreplaceable loss of resources	Medium degree	
Degree to which impact can be avoided, managed or mitigated	High degree	

Aspect	Spillages from chemical toilets (construction phase) or the sewerage network (operational phase).	
Impact and Nature	Soil pollution.	
Impact Rating	Before mitigation	After mitigation
<b>Construction Phase</b>		
Extent	2	1
Duration	2	1
Magnitude	2	2
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>
<b>Operational Phase</b>		
Extent	2	1



Duration	3	1
Magnitude	3	2
Probability	2	1
Significance	<b>16 - Medium</b>	<b>4 - Low</b>

**Post-construction and Rehabilitation Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Status of Impact**

Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	Medium degree
Degree to which impact can be avoided, managed or mitigated	High degree

Aspect	The incorrect management, storage and disposal of waste (general and hazardous waste), including construction waste.	
Impact and Nature	Soil pollution.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>

**Construction Phase**

Extent	2	1
Duration	2	1
Magnitude	3	2
Probability	2	1
Significance	<b>14 - Medium</b>	<b>4 - Low</b>

**Operational Phase**

Extent	2	1
Duration	3	1
Magnitude	3	2
Probability	2	1
Significance	<b>16 - Medium</b>	<b>4 - Low</b>

**Post-construction and Rehabilitation Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Status of Impact**

Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	Medium degree
Degree to which impact can be avoided, managed or mitigated	High degree

Aspect	The mixing of concrete.	
Impact and Nature	Soil pollution.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>

**Construction Phase**

Extent	2	1
Duration	2	1
Magnitude	2	2
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>

**Operational Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Post-construction and Rehabilitation Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Status of Impact**

Consequence	Negative
Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	Medium degree
Degree to which impact can be avoided, managed or mitigated	High degree

Aspect	The clearance of vegetation and the removal of topsoil and subsoil.	
Impact and Nature	Soil erosion.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>

**Construction Phase**

Extent	1	1
Duration	2	1
Magnitude	2	1
Probability	3	2
Significance	<b>15 - Medium</b>	<b>6 - Low</b>

**Operational Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Post-construction and Rehabilitation Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance		

**Status of Impact**

Consequence	Negative
Degree to which impact can be reversed	High degree
Degree to which impact may cause irreplaceable loss of resources	Low degree

Degree to which impact can be avoided, managed or mitigated	High degree
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Aspect	Construction activities to create foundations for buildings and other associated infrastructure.
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Impact and Nature	Soil compaction.
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Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
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**Construction Phase**

Extent	1	1
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Duration	2	1
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Magnitude	3	1
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Probability	2	2
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Significance	<b>12 - Medium</b>	<b>6 - Low</b>
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**Operational Phase**

Extent		
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Duration		
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Magnitude		
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Probability		
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Significance		
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**Post-construction and Rehabilitation Phase**

Extent		
--------	--	--

Duration		
----------	--	--

Magnitude		
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Probability		
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Significance		
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**Status of Impact**

Consequence	Negative
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Degree to which impact can be reversed	High degree
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Degree to which impact may cause irreplaceable loss of resources	Low degree
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Degree to which impact can be avoided, managed or mitigated	High degree
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Aspect	Incorrect storage practices.
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Impact and Nature	Degradation of topsoil.
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Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
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**Construction Phase**

Extent	1	1
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Duration	1	1
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Magnitude	2	1
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Probability	2	1
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Significance	<b>8 - Low</b>	<b>3 - Low</b>
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**Operational Phase**

Extent		
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Duration		
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Magnitude		
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Probability		
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Significance		
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**Post-construction and Rehabilitation Phase**

Extent		
--------	--	--

Duration		
----------	--	--

Magnitude		
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Probability		
Significance		
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Medium degree	
Degree to which impact may cause irreplaceable loss of resources	Low degree	
Degree to which impact can be avoided, managed or mitigated	High degree	
Aspect	Inefficient rehabilitation of construction areas.	
Impact and Nature	Soil erosion.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Operational Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Post-construction and Rehabilitation Phase</b>		
Extent	2	1
Duration	2	2
Magnitude	2	1
Probability	2	1
Significance	<b>12 - Medium</b>	<b>4 - Low</b>
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Medium degree	
Degree to which impact may cause irreplaceable loss of resources	Low degree	
Degree to which impact can be avoided, managed or mitigated	High degree	

### Socio-economic

Aspect	Construction, operational and rehabilitation activities.	
Impact and Nature	Generation of a number of employment opportunities.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance	Positive impact	No mitigation required – positive impact
<b>Operational Phase</b>		
Extent		

Duration		
Magnitude		
Probability		
Significance	Positive impact	No mitigation required – positive impact
<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance	Positive impact	No mitigation required – positive impact
<b>Status of Impact</b>		
Consequence	Positive	
Degree to which impact can be reversed	N/A – Positive impact	
Degree to which impact may cause irreplaceable loss of resources	N/A – Positive impact	
Degree to which impact can be avoided, managed or mitigated	N/A – Positive impact	
Aspect	Construction activities.	
Impact and Nature	Potential increase in crime due to the influx of workers.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		
Extent	2	1
Duration	2	1
Magnitude	3	2
Probability	2	1
Significance	<b>14 - Medium</b>	<b>4 - Low</b>
<b>Operational Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Post-construction and Rehabilitation Phase</b>		
Extent		
Duration		
Magnitude		
Probability		
Significance		
<b>Status of Impact</b>		
Consequence	Negative	
Degree to which impact can be reversed	Low degree	
Degree to which impact may cause irreplaceable loss of resources	High degree	
Degree to which impact can be avoided, managed or mitigated	High degree	
Aspect	Construction, operational and rehabilitation activities.	
Impact and Nature	Stimulation of the local economy.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
<b>Construction Phase</b>		

Extent		
Duration		
Magnitude		
Probability		
Significance	Positive impact	No mitigation required – positive impact

**Operational Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance	Positive impact	No mitigation required – positive impact

**Post-construction and Rehabilitation Phase**

Extent		
Duration		
Magnitude		
Probability		
Significance	Positive impact	No mitigation required – positive impact

**Status of Impact**

Consequence	Positive
Degree to which impact can be reversed	N/A – Positive impact
Degree to which impact may cause irreplaceable loss of resources	N/A – Positive impact
Degree to which impact can be avoided, managed or mitigated	N/A – Positive impact

**Traffic**

Aspect	Construction activities.
Impact and Nature	Increase in traffic volumes to the site.
Impact Rating	<b>Before mitigation</b> <b>After mitigation</b>

**Construction Phase**

Extent	2	2
Duration	2	2
Magnitude	2	1
Probability	3	2
Significance	<b>18 - Medium</b>	<b>10 - Medium</b>

**Operational Phase**

Extent	2	2
Duration	3	3
Magnitude	2	1
Probability	3	2
Significance	<b>21 - High</b>	<b>12 – Medium</b>

**Post-construction and Rehabilitation Phase**

Extent	2	2
Duration	1	1
Magnitude	2	2
Probability	3	2
Significance	<b>15 - Medium</b>	<b>10 – Medium</b>

**Status of Impact**

Consequence	Negative
-------------	----------

Degree to which impact can be reversed	Medium degree
Degree to which impact may cause irreplaceable loss of resources	Low degree
Degree to which impact can be avoided, managed or mitigated	Low degree

## Fire Risk

Aspect	Construction and operational activities.	
Impact and Nature	The potential for fire establishment at the project site and its subsequent risk to human life and infrastructure.	
Impact Rating	<b>Before mitigation</b>	<b>After mitigation</b>
	<b>Construction Phase</b>	
Extent	2	1
Duration	2	1
Magnitude	3	2
Probability	2	1
Significance	<b>14 - Medium</b>	<b>4 - Low</b>
	<b>Operational Phase</b>	
Extent	2	1
Duration	3	1
Magnitude	3	2
Probability	2	1
Significance	<b>16 - Medium</b>	<b>4 - Low</b>
	<b>Post-construction and Rehabilitation Phase</b>	
Extent		
Duration		
Magnitude		
Probability		
Significance		
	<b>Status of Impact</b>	
Consequence	Negative	
Degree to which impact can be reversed	Low degree	
Degree to which impact may cause irreplaceable loss of resources	High degree	
Degree to which impact can be avoided, managed or mitigated	High degree	

## 9.4 A summary of the findings and impact management measures identified in any specialist reports complying with Appendix 6 of the EIA Regulations, 2014, and an indication as to how these findings and recommendations have been included in this Basic Assessment Report

The following specialist studies and the report thereof are included in the Basic Assessment Report (specialist reports are attached under Appendix D):

- Ecological Fauna and Flora Habitat Survey done by Reinier F. Terblanche, March 2020 (Report attached under Appendix D); and
- Wetland Assessment done by Reinier F. Terblanche, March 2020 (Report attached under Appendix D).



### Ecological Fauna and Flora Habitat Survey done by Reinier F. Terblanche, March 2020:

- Site is characterised by ecologically disturbed vegetation where hitherto cleared areas, areas that were cultivated in the past, a tar road, footpaths and tracks are found. Patches of secondary grassland with indigenous plant species remain in some areas. An area with with conspicuous high cover of alien invasive Australian *Acacia* trees is found in the northwestern corner of the site. *Eucalyptus* species (Gum Trees), *Pinus* species (Pines) occur at parts of the site. Numerous alien invasive weeds are present at the site.
- Wetlands and rocky ridges appear to be absent at the site.
- No wetlands appear to be present withing 500 m from the boundary of the site.
- No Threatened or Near Threatened or any other plant or animal species of particular conservation concern appear to be present at the site.
- Grassland at the site is represented by the Eastern Highveld Grassland (Gm 12) vegetation type which is listed as a Threatened Ecosystem, Vulnerable, according to the National List of Threatened Ecosystems (2011). The vegetation at the site has been modified in the past and is currently considerably degraded. There is little scope for the restoration and sustainable conservation of a natural grassland area at the site.
- The scope for the site to be part of a corridor of particular conservation importance is small.
- Ecological sensitivity at the site is indicated as medium at some part and for the larger part of the site, low.
- Following the mitigations which will be upheld and planned, the footprint for development all the impact risks listed above are moderate or low.
- By no means should exotic declared invaders such as *Melia azedarach* (Syringa) the green wattle, *Acacia decurrens* or the black wattle, *Acacia mearnsii*, be planted or allowed to establish.
- If the development is approved an opportunity exists to cultivate indigenous vegetation at the site which could benefit urban biodiversity conservation efforts.

### Wetland Assessment done by Reinier F. Terblanche, March 2020:

- Site is characterised by ecologically disturbed terrestrial vegetation where hitherto cleared areas, areas that were cultivated in the past, a tar road, footpaths and tracks are found. Patches of secondary grassland with indigenous plant species remain in some areas. An area with with conspicuous high cover of alien invasive Australian *Acacia* trees is found in the northwestern corner of the site. *Eucalyptus* species (Gum Trees), *Pinus* species (Pines) occur at parts of the site. Numerous alien invasive weeds are present at the site (Ecological Habitat Survey Report).
- An inlet of the Witbank Dam is located more than 500 m from the nearest boundary of the site.
- Wetlands such as those that could be classified as Floodplain Wetlands, Channelled Valley-bottom Wetlands, Unchannelled Valley-bottom Wetlands, Depressions (Pans), Seeps or Wetland Flats appear to be absent at site. No rivers and riparian zones are found at the site.
- Site is situated in the Olifants Water Management Area (WMA 4). Site falls outside any FEPA (Freshwater Ecosystem Priority Area) (Nel *et al.*, 2011a, 2011b).

## 10. ENVIRONMENTAL IMPACT STATEMENT

### 10.1 Summary of the key findings of the Environmental Impact Assessment

The summary of the key findings of this Basic Environmental Impact Assessment process are as follows:

- The project site (the preferred location) is in a disturbed state, as confirmed by the Mpumalanga Biodiversity Sector Plan, where the project site is classified as “Heavily Modified” and the Terrestrial CBA Map which indicates that the project site is designated as of “Least Concern” with “No Natural Habitat Remaining”;
- As per the Ecological Fauna and Flora Survey (by R. Terblanche):
  - ❖ The vegetation at the site has been modified in the past and is currently considerably degraded. There is little scope for the restoration and sustainable conservation of a natural grassland area at the site.
  - ❖ No wetlands appear to be present within 500 m from the boundary of the site.
  - ❖ No Threatened or Near Threatened or any other plant or animal species of particular conservation concern appear to be present at the site.
- The proposed development will result in a positive socio-economic impact through the provision of a number of temporary and permanent employment opportunities, contribution to an already existing industrial node (Naauwpoort) for rendering of both industrial and commercial services and ultimately stimulation of the local economy of Emalaheleni and the Mpumalanga Province.
- The proposed development is in line with the Emalahleni’s Municipal Development Planning Frameworks;
- The environmental impacts associated with the proposed development have been identified and assessed in terms of their significance in this report. The most significant impacts relate to the release of emissions from vehicles; an increase in traffic to the project site and disturbance and/or destruction of the fossil assemblages; and
- The majority of the impacts are rated as having a “Medium” significance before mitigation, and a “Low” significance after mitigation.

## 10.2 Environmental sensitivity map

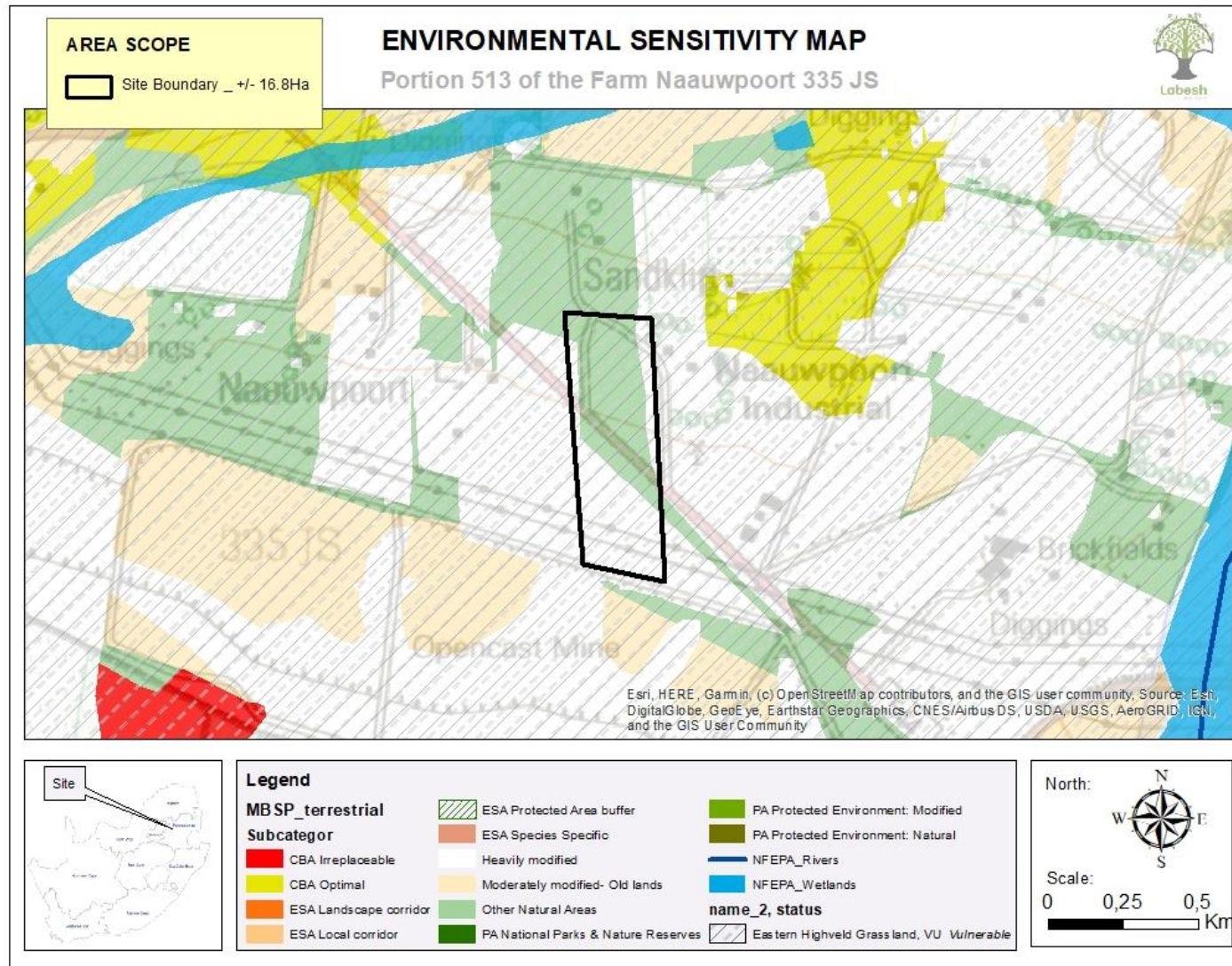


Figure 17: Sensitivity Map of the Project Site

### **10.3 Summary of the positive and negative impacts and risks of the proposed activity and identified alternatives**

The following main positive and potential negative impacts and risks have been identified for the proposed project:

#### **Positive impacts**

- The utilization of degraded, unutilized land;
- The generation of temporary and permanent employment opportunities;
- Contribution to an already existing industrial node (Naauwpoort) for rendering of both industrial and commercial services; and
- The stimulation of the local economy.

#### **Negative impacts**

- Soil and water (surface- and ground water) pollution;
- Disturbance of fauna species;
- The spread of alien invasive vegetation;
- Disturbance or destruction of cultural and heritage resources;
- The disturbance and/or destruction of the fossil assemblages;
- Generation of dust;
- Release of atmospheric emissions;
- Generation of nuisance and noise;
- Soil erosion or compaction;
- Degradation of topsoil;
- Potential increase in crime;
- Increase in traffic volumes to the site; and
- The potential for fire establishment at the project site and its subsequent risk to human life and infrastructure.

### **10.4 Impact management measures from specialist reports and the recording of the proposed impact management outcomes for the development, for inclusion in the EMPr**

The following specialist studies and the report thereof are included in the Basic Assessment Report (specialist reports are attached under Appendix D):

- Ecological Fauna and Flora Habitat Survey done by Reinier F. Terblanche, March 2020 (Report attached under Appendix D); and
- Wetland Assessment done by Reinier F. Terblanche, March 2020 (Report attached under Appendix D).

### Ecological Fauna and Flora Habitat Survey done by Reinier F. Terblanche, March 2020:

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- The scope for the site to be part of a corridor of particular conservation importance is small.
- Ecological sensitivity at the site is indicated as medium at some part and for the larger part of the site, low.
- Following the mitigations which will be upheld and planned, the footprint for development all the impact risks listed above are moderate or low.
- By no means should exotic declared invaders such as *Melia azedarach* (Syringa) the green wattle, *Acacia decurrens* or the black wattle, *Acacia mearnsii*, be planted or allowed to establish.
- If the development is approved an opportunity exists to cultivate indigenous vegetation at the site which could benefit urban biodiversity conservation efforts.

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- Site is situated in the Olifants Water Management Area (WMA 4). Site falls outside any FEPA (Freshwater Ecosystem Priority Area) (Nel *et al.*, 2011a, 2011b).



## **10.5 Aspects which were conditional to the findings of the assessment either by the EAP or specialists and which are to be included as conditions of authorisation**

The following conditions must be included in the Environmental Authorisation, should the proposed development be authorised:

- A Protocol of Fossil Finds must be developed and submitted to SAHRA for approval prior to the development commencing. A Palaeontological Field Assessment must be carried out when the construction phase commences (should the proposed development be authorised);
- The mitigation measures contained in the Environmental Management Programme must be implemented during each developmental phase of the proposed project; and
- An independent Environmental Control Officer must be appointed to audit compliance to the Environmental Management Programme during the construction phase of the proposed development.

## **10.6 Description of assumptions, uncertainties and gaps in knowledge which relate to the assessment and mitigation measures**

The following assumptions were made during this Basic Environmental Impact Assessment process:

- That all research and reference sources or material is accurate and up to date;
- That the project information, as provided by the applicant, is correct;
- That the facilities will be constructed as per the layout plans supplied from the applicant; and
- That the project site will be operated according to the Environmental Management Programme and in a responsible manner.

At this stage the fossil assemblages that may possibly be present beneath the project site are not known. This will be determined during the Field Assessment that will be undertaken during commencement of the construction phase of the proposed project.

## **10.7 Reasoned opinion as to whether the proposed activity should or should not be authorised, and if the opinion is that it should be authorised, any conditions that should be made in respect of that authorisation**

It is Labesh's independent and reasoned opinion that the identified and assessed environmental impacts can be mitigated and that an Environmental Authorisation should therefore be issued for the proposed Establishment of a new Township on Portion 513 of the Farm Naauwpoort 335 JS for Industrial Use (referred to as Benicon Extension 2).

Please refer to Section 10.5 above for conditions that should be included in respect of the Environmental Authorisation.

## **10.8 Where the proposed activity does not include operational aspects, the period for which the environmental authorisation is required, the date on which the activity will be concluded, and the post construction monitoring requirements finalised**

Not applicable. The proposed activity does include operational aspects.

## **11. ENVIRONMENTAL ASSESSMENT PRACTITIONER UNDERTAKING/ AFFIRMATION**

I, Lourens de Villiers, hereby confirm the following:

- The correctness of information provided in this Basic Assessment Report;
- The inclusion of all comments and inputs from stakeholders and I&APs;
- The inclusion of inputs and recommendations from the specialist reports where relevant ; and
- Any information provided by the EAP to I&APs and any responses by the EAP to comments or inputs made by I&APs have been included in this report.

I further confirm that I have no business, financial, personal or other interest in the activity or application in respect of which I have been appointed as EAP, in terms of the EIA Regulations, other than fair remuneration for work performed in connection with this application for Environmental Authorisation.

## **12. DETAILS OF ANY FINANCIAL PROVISION FOR THE REHABILITATION, CLOSURE, AND ONGOING POST DECOMMISSIONING MANAGEMENT OF NEGATIVE ENVIRONMENTAL IMPACTS**

No financial provisioning applicable to the proposed project.

## **13. SPECIFIC INFORMATION REQUIRED BY THE COMPETENT AUTHORITY**

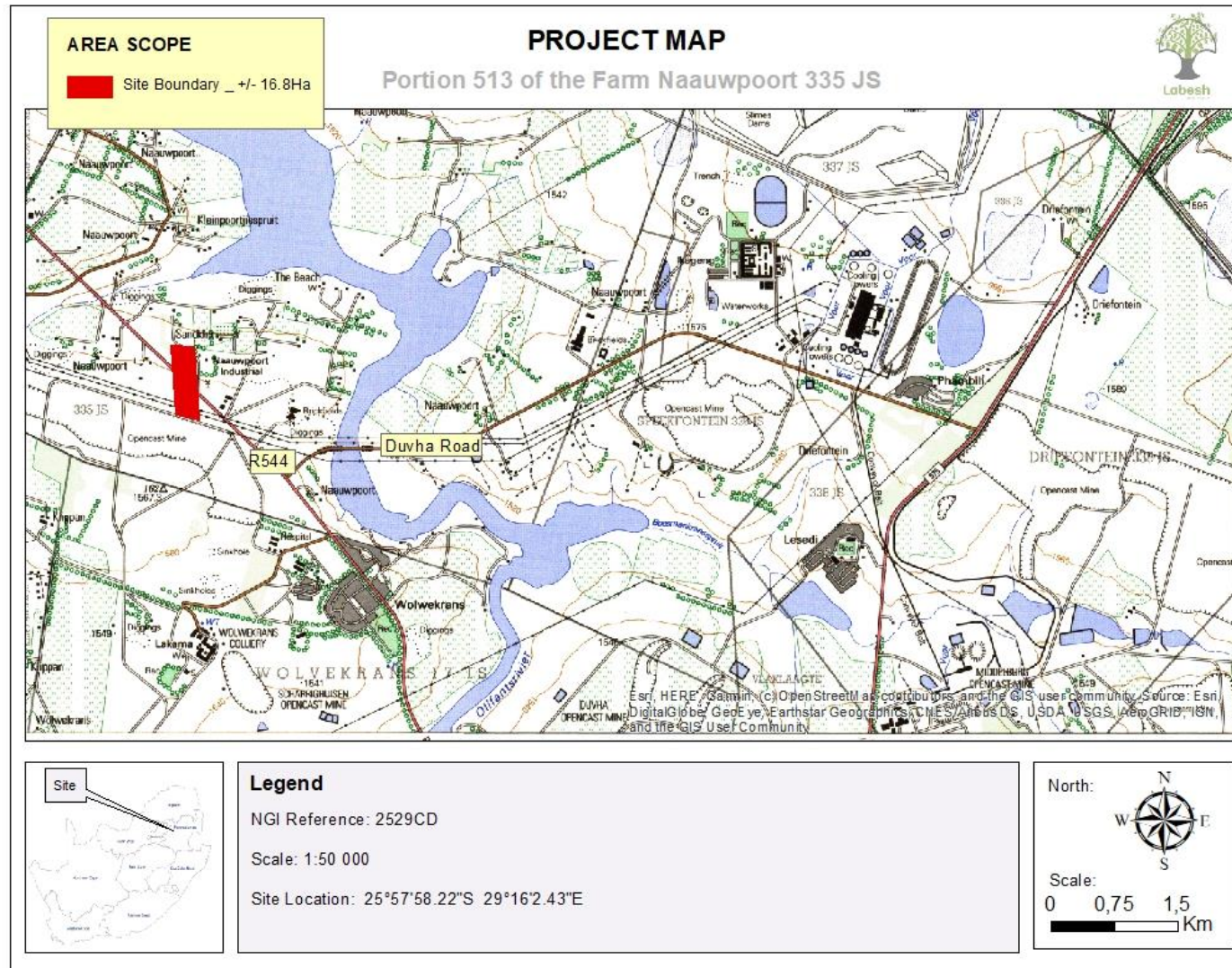
No specific information has been required by the Competent Authority at this stage of the application process.

## **14. OTHER MATTERS REQUIRED IN TERMS OF SECTION 24(4)(A) AND (B) OF NEMA**

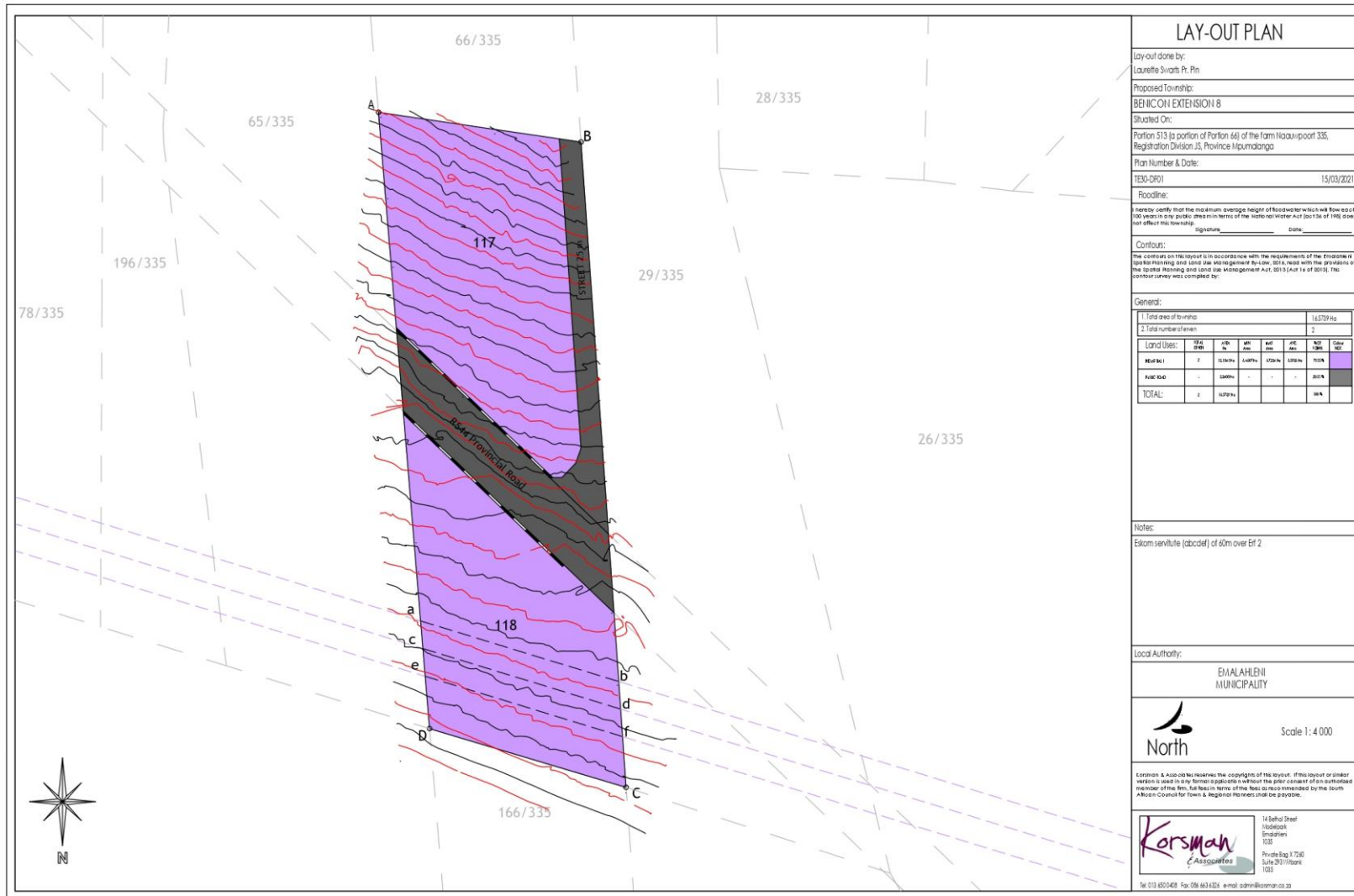
At this stage, no other matters to address have been identified or required.



## APPENDIX A – Plans and Maps



Site Locality Map



### LAY-OUT PLAN

Lay-out done by:  
Laurette Swartz Pt. Pm  
Proposed Township:  
BENICOM EXTENSION 8  
Shaded On:  
Portion 513 (a portion of Portion 66) of the Farm No. 166/335,  
Registration Division JS, Province Mpumalanga  
Plan Number & Date:  
TE50-DP01 15/03/2021  
Roadline:

I hereby certify that the maximum average height of floodwater which will flow each 100 years in any public area in terms of the National Water Act (No 110 of 1998) does not affect this township.  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Contours:**  
The contours on this report is in accordance with the requirements of the Chapter 4 of the Planning and Land Use Management By-Law, 2016, read with the provisions of the Spatial Planning and Land Use Management Act, 2015 (Act 16 of 2015). The contour survey was completed by:

**General:**

1. Total area of township	14379 Ha
2. Total number of erven	2

Land Use:	SPG	SP	MP	MP	MP	MP	MP	MP
Residential	2	100%	100%	100%	100%	100%	100%	100%
Public Use	-	100%	-	-	-	-	-	100%
<b>TOTAL:</b>	<b>2</b>	<b>100%</b>						<b>100%</b>

**Notes:**  
Eskom servitude (abcedef) of 60m over Erf 2

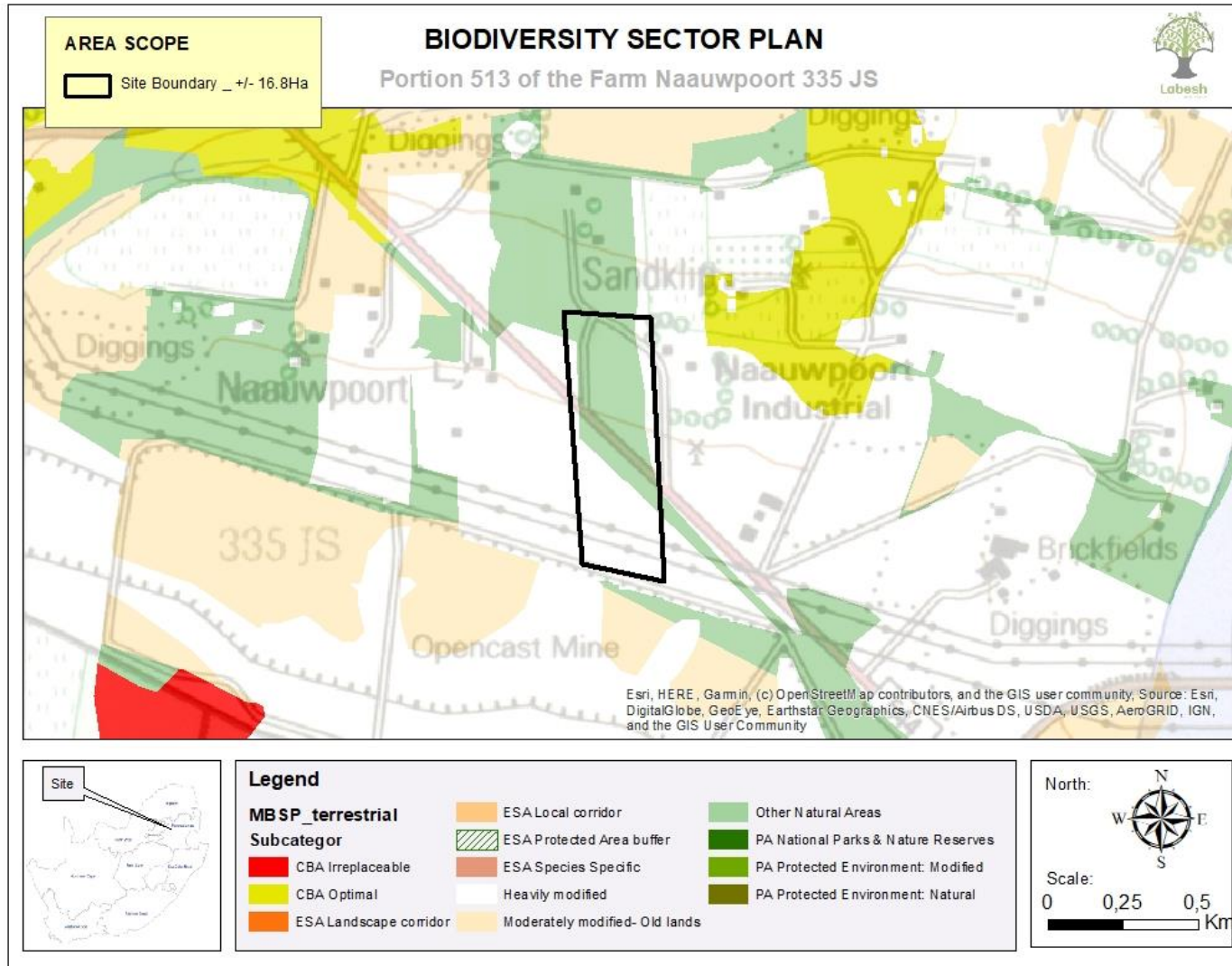
Local Authority:  
EMALAHLENI MUNICIPALITY

North  
Scale 1: 4 000

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**Korsman & Associates**  
14 Bethel Street  
Emalahleni  
1035  
Private Bag 1 7260  
Suite 201/1st floor  
1035  
Tel: 013 850 0409 Fax: 013 863 4324 e-mail: admin@korsman.co.za

Facility illustration for the proposed project

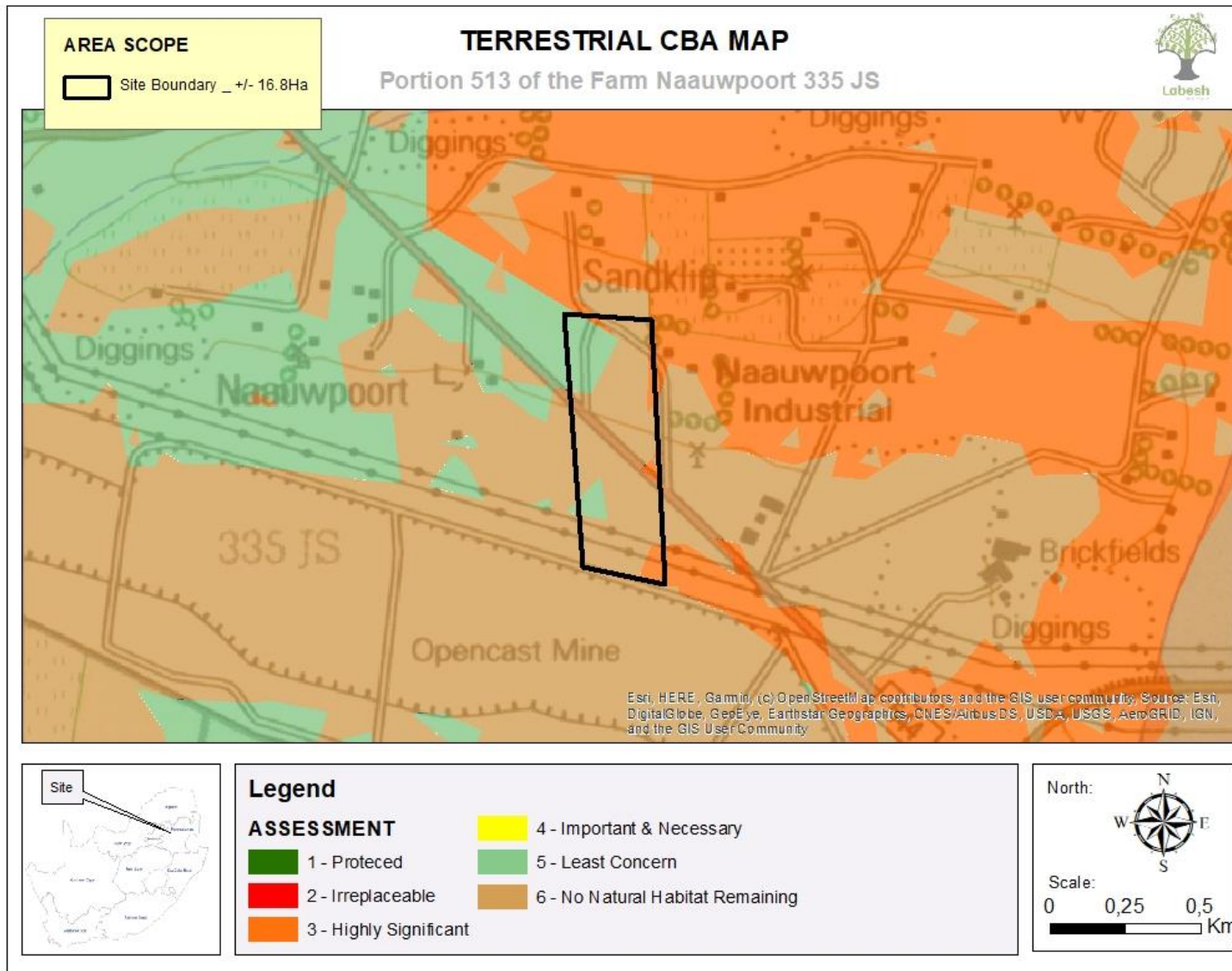


Site

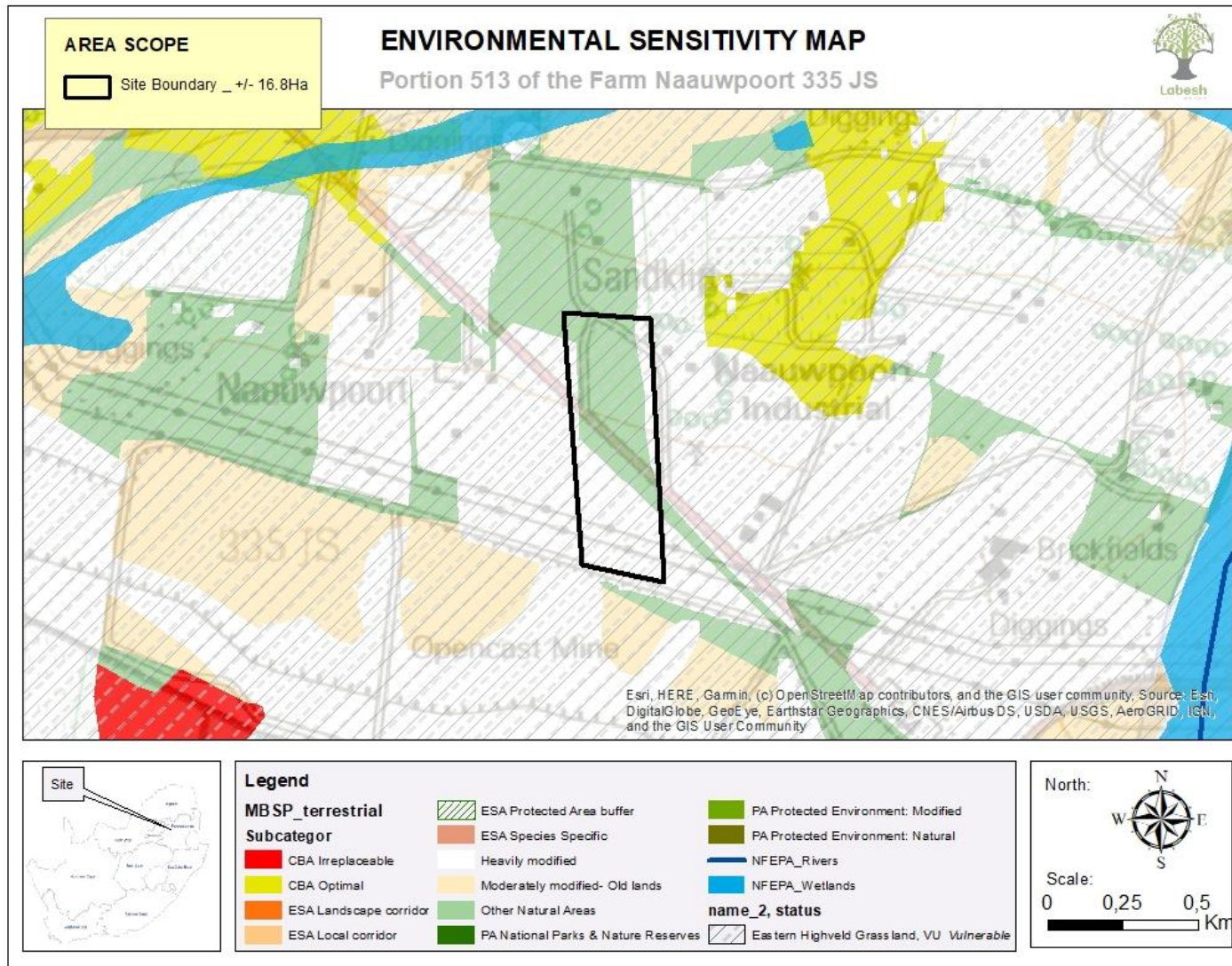


Mpumalanga Sector Plan Map of the project site

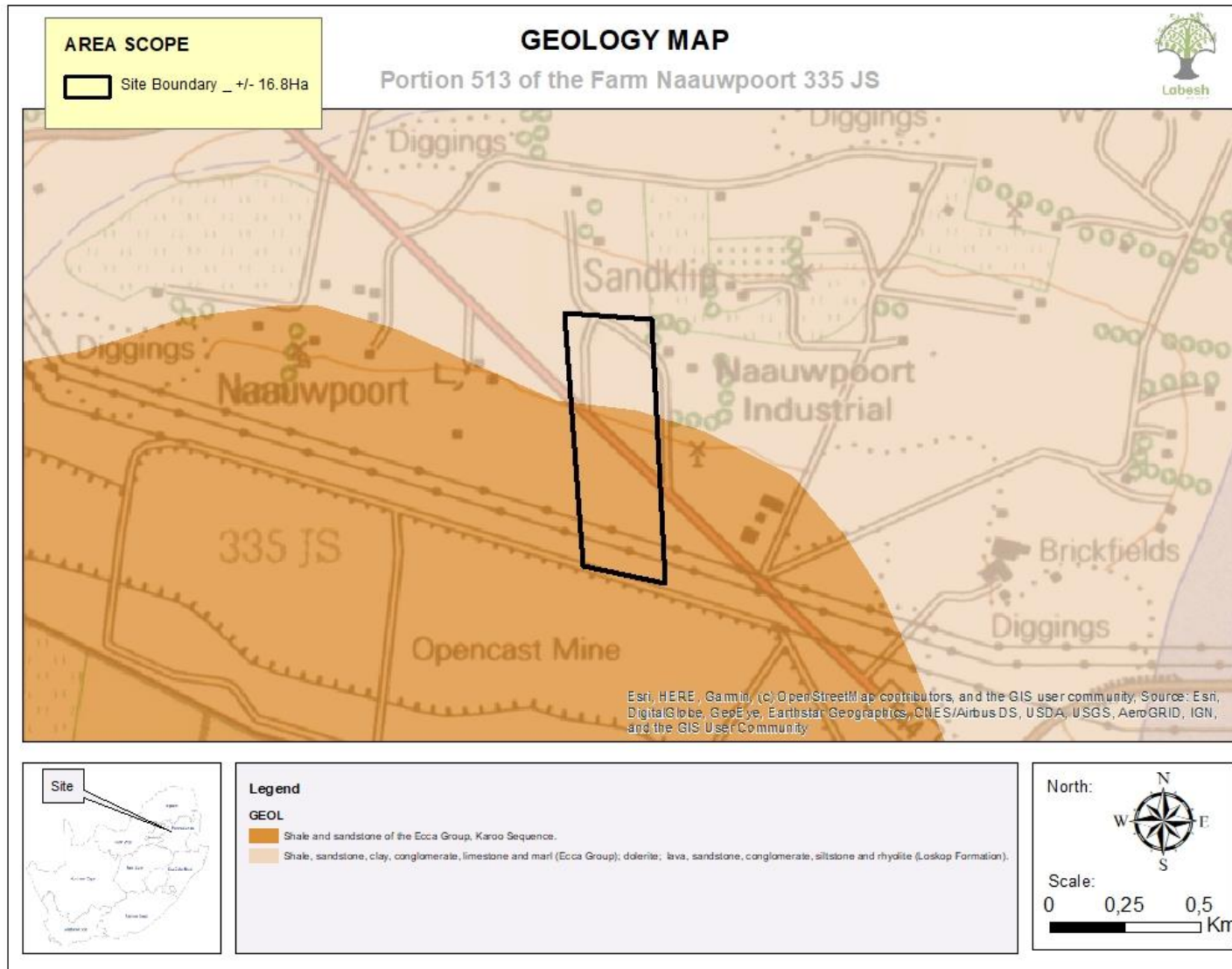




Terrestrial CBA Map of the project site

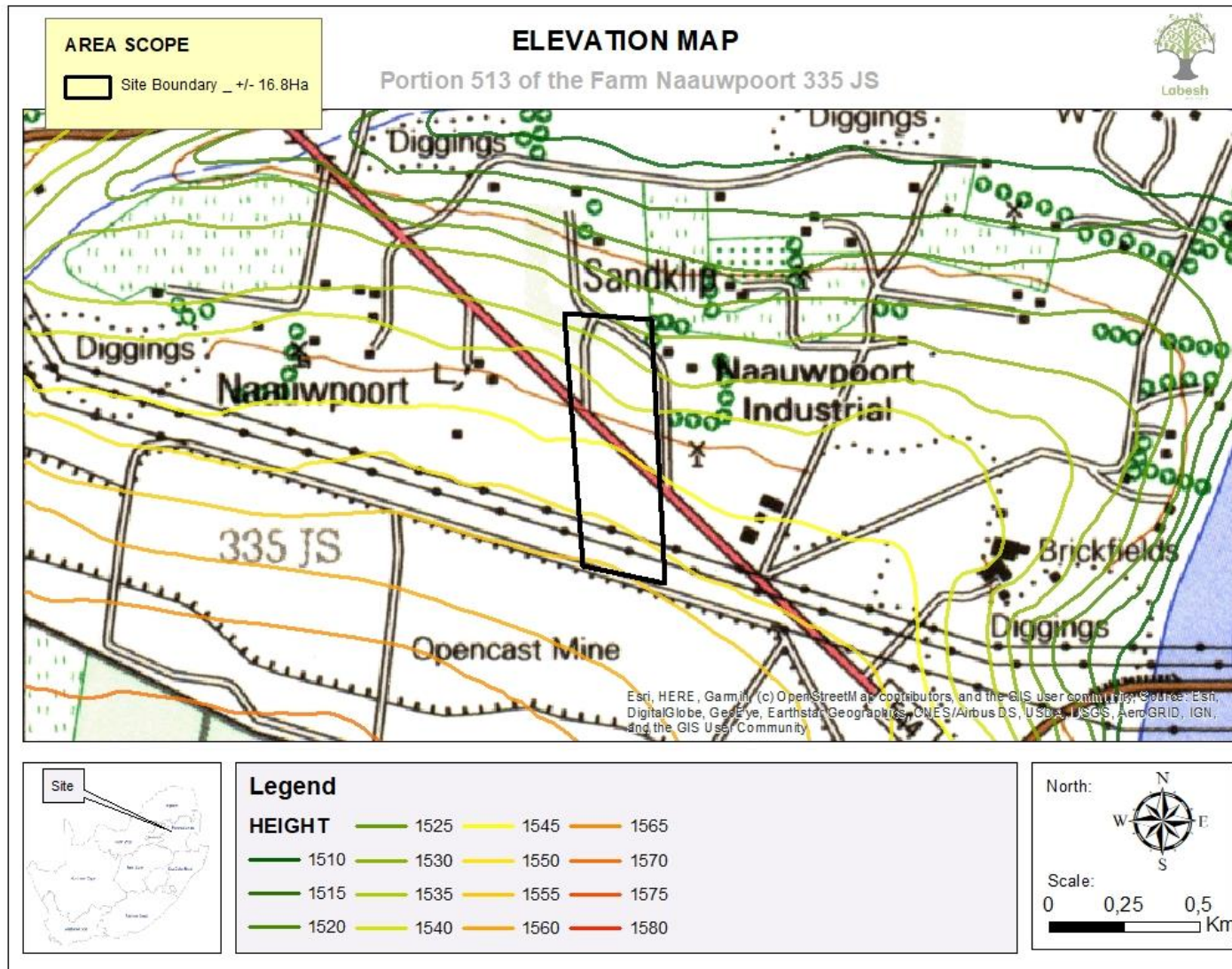


Sensitivity Map of the project site



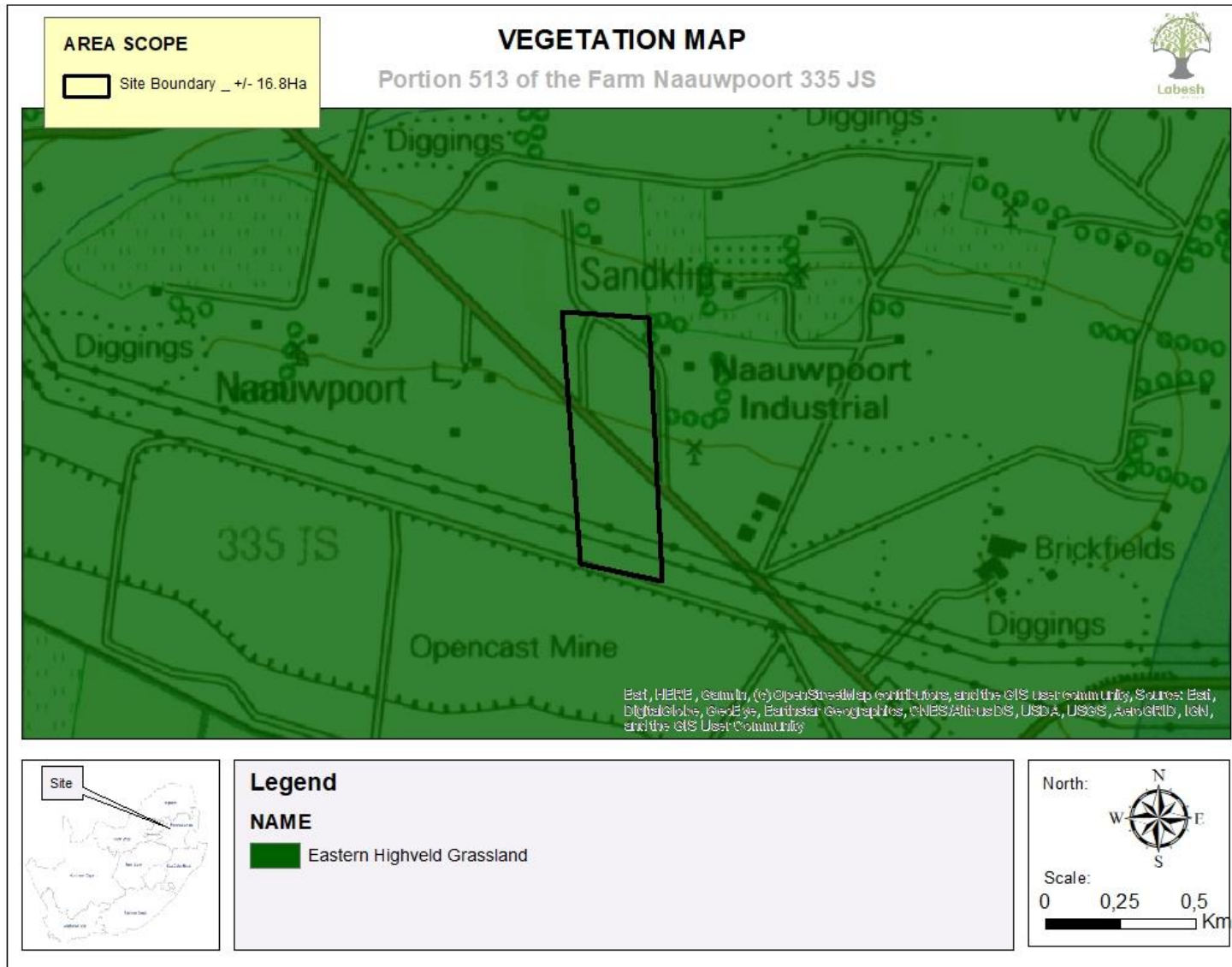
Geology Map of the project site



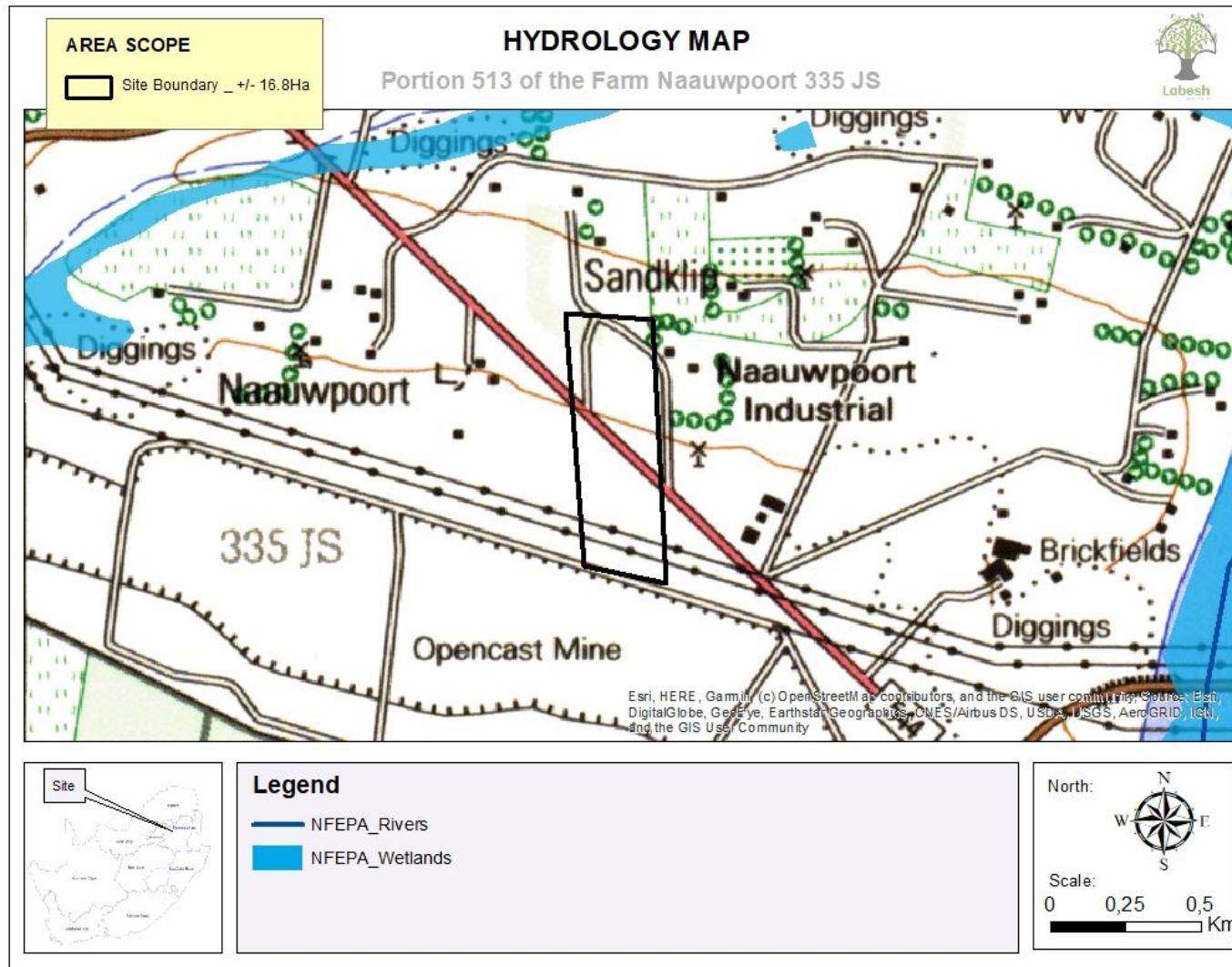


Elevation Map of the project site





Vegetation Map of the project site



Hydrology Map of the project site and surrounding area



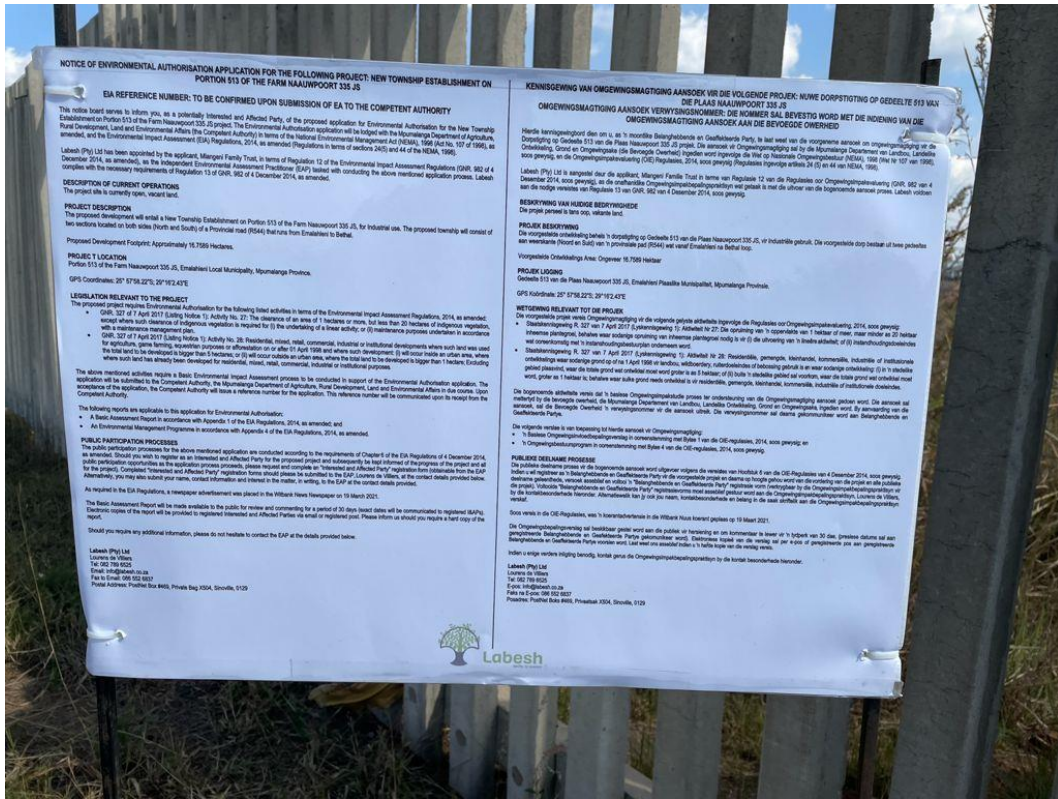
## APPENDIX B - Photographs





# APPENDIX C – Public Participation

## Appendix 1: Proof of Site Notice





**NOTICE OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP ESTABLISHMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS**

**EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF EA TO THE COMPETENT AUTHORITY**

This notice board serves to inform you, as a potentially Interested and Affected Party, of the proposed application for Environmental Authorisation for the New Township Establishment on Portion 513 of the Farm Naaupoort 335 JS project. The Environmental Authorisation application will be lodged with the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs (the Competent Authority) in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (Regulations in terms of sections 24(5) and 44 of the NEMA, 1998).

Labesh (Pty) Ltd has been appointed by the applicant, Mlangeni Family Trust, in terms of Regulation 12 of the Environmental Impact Assessment Regulations (GNR. 982 of 4 December 2014, as amended), as the independent Environmental Assessment Practitioner (EAP) tasked with conducting the above mentioned application process. Labesh complies with the necessary requirements of Regulation 13 of GNR. 982 of 4 December 2014, as amended.

**DESCRIPTION OF CURRENT OPERATIONS**

The project site is currently open, vacant land.

**PROJECT DESCRIPTION**

The proposed development will entail a New Township Establishment on Portion 513 of the Farm Naaupoort 335 JS, for Industrial use. The proposed township will consist of two sections located on both sides (North and South) of a Provincial road (R544) that runs from Emalahleni to Bethal.

Proposed Development Footprint. Approximately 16.7589 Hectares.

**PROJECT LOCATION**

Portion 513 of the Farm Naaupoort 335 JS, Emalahleni Local Municipality, Mpumalanga Province.

GPS Coordinates: 25° 57'58.22"S; 29°16'2.43"E

**LEGISLATION RELEVANT TO THE PROJECT**

The proposed project requires Environmental Authorisation for the following listed activities in terms of the Environmental Impact Assessment Regulations, 2014, as amended:

- GNR. 327 of 7 April 2017 (Listing Notice 1): Activity No. 27: The clearance of an area of 1 hectare or more, but less than 20 hectares of indigenous vegetation, except 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.
- GNR. 327 of 7 April 2017 (Listing Notice 1): Activity No. 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 1 hectare; Excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.

The above mentioned activities require a Basic Environmental Impact Assessment process to be conducted in support of the Environmental Authorisation application. The application will be submitted to the Competent Authority, the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs in due course. Upon acceptance of the application, the Competent Authority will issue a reference number for the application. This reference number will be communicated upon its receipt from the Competent Authority.

The following reports are applicable to this application for Environmental Authorisation:

- A Basic Assessment Report in accordance with Appendix 1 of the EIA Regulations, 2014, as amended; and
- An Environmental Management Programme in accordance with Appendix 4 of the EIA Regulations, 2014, as amended.

**PUBLIC PARTICIPATION PROCESSES**

The public participation processes for the above mentioned application are conducted according to the requirements of Chapter 6 of the EIA Regulations of 4 December 2014, as amended. Should you wish to register as an Interested and Affected Party for the proposed project and subsequently be kept informed of the progress of the project and all public participation opportunities as the application process proceeds, please request and complete an "Interested and Affected Party" registration form (obtainable from the EAP for the project). Completed "Interested and Affected Party" registration forms should please be submitted to the EAP: Lourens de Villiers, at the contact details provided below. Alternatively, you may also submit your name, contact information and interest in the matter, in writing, to the EAP at the contact details provided.

As required in the EIA Regulations, a newspaper advertisement was placed in the Witbank News Newspaper on 19 March 2021.

The Basic Assessment Report will be made available to the public for review and commenting for a period of 30 days (exact dates will be communicated to registered I&APs). Electronic copies of the report will be provided to registered Interested and Affected Parties via email or registered post. Please inform us should you require a hard copy of the report.

Should you require any additional information, please do not hesitate to contact the EAP at the details provided below.

**Labesh (Pty) Ltd**

Lourens de Villiers  
Tel: 082 789 6525  
Email: info@labesh.co.za  
Fax to Email: 086 552 6837  
Postal Address: PostNet Box #469, Private Bag X504, Sinoville, 0129

**KENNISGEWING VAN OMGEWINGSMAGTIGING AANSOEK VIR DIE VOLGENDE PROJEK: NUWE DORPSTIGTING OP GEDEELTE 513 VAN DIE PLAAS NAAUWPOORT 335 JS  
OMGEWINGSMAGTIGING AANSOEK VERWYSINGSNUMMER: DIE NOMMER SAL BEVESTIG WORD MET DIE INDIENING VAN DIE OMGEWINGSMAGTIGING AANSOEK AAN DIE BEVOEGDE OWERHEID**

Hierdie kennisgewingsbord dien om u, as 'n moontlike Belanghebbende en Geaffekteerde Party, te laat weet van die voorgenome aansoek om omgewingsmagtiging vir die Dorpstigting op Geedeelte 513 van die Plaas Naaupoort 335 JS projek. Die aansoek vir Omgewingsmagtiging sal by die Mpumalanga Departement van Landbou, Landelike Ontwikkeling, Grond en Omgewingsake (die Bevoegde Owerheid) ingedien word ingevolge die Wet op Nasionale Omgewingsbestuur (NEMA), 1998 (Wet Nr 107 van 1998), soos gewysig, en die Omgewingsimpakevaluering (OIE) Regulasies, 2014, soos gewysig (Regulasies ingevolge artikels 24 (5) en 44 van NEMA, 1998).

Labesh (Pty) Ltd is aangestel deur die applikant, Mlangeni Familie Trust in terme van Regulasie 12 van die Regulasies oor Omgewingsimpakevaluering (GNR. 982 van 4 Desember 2014, soos gewysig), as die onafhanklike Omgewingsimpakevalueringpraktisyn wat getaak is met die uitvoer van die bogenoemde aansoek proses. Labesh voldoen aan die nodige vereistes van Regulasie 13 van GNR. 982 van 4 Desember 2014, soos gewysig.

**BESKRYWING VAN HUIDIGE BEDRYWIGHEID**

Die projek perseel is tans oop, vakante land.

**PROJEK BESKRYWING**

Die voorgestelde ontwikkeling behels 'n dorpsstigting op Geedeelte 513 van die Plaas Naaupoort 335 JS, vir Industriële gebruik. Die voorgestelde dorp bestaan uit twee gedeeltes aan weerskante (Noord en Suid) van 'n provinsiale pad (R544) wat vanaf Emalahleni na Bethal loop.

Voorgestelde Ontwikkelings Area: Ongeveer 16.7589 Hektaar

**PROJEK LIGGING**

Geedeelte 513 van die Plaas Naaupoort 335 JS, Emalahleni Plaaslike Munisipaliteit, Mpumalanga Provinsie.

GPS Koördinate: 25° 57'58.22"S; 29°16'2.43"E

**WETGEWING RELEVANT TOT DIE PROJEK**

Die voorgestelde projek vereis Omgewingsmagtiging vir die volgende gelystede aktiwiteite ingevolge die Regulasies oor Omgewingsimpakevaluering, 2014, soos gewysig:

- Staatskennisgewing R. 327 van 7 April 2017 (Lyskennisgewing 1): Aktiwiteit Nr 27: Die opruiming van 'n oppervlakte van 1 hektaar of meer, maar minder as 20 hektaar inheemse plantegroei, behalwe waar sodanige opruiming van inheemse plantegroei nodig is vir (i) die uitvoering van 'n lineêre aktiwiteit; of (ii) instandhoudingsdoelendes wat ooreenkomstig met 'n instandhoudingsbestuurplan ondemeem word.
- Staatskennisgewing R. 327 van 7 April 2017 (Lyskennisgewing 1): Aktiwiteit Nr 28: Residensiële, gemengde, kleinhandel, kommersiële, industriële of institusionele ontwikkelings waar sodanige grond op of na 1 April 1998 vir landbou, wildboerdery, nulterdoelendes of bossing gebruik is en waar sodanige ontwikkeling: (i) in 'n stedelike gebied plaasvind, waar die totale grond wat ontwikkel moet word groter is as 5 hektaar; of (ii) buite 'n stedelike gebied sal voorkom, waar die totale grond wat ontwikkel moet word, groter as 1 hektaar is; behalwe waar sulke grond reeds ontwikkel is vir residensiële, gemengde, kleinhandel, kommersiële, industriële of institusionele doeleindes.

Die bogenoemde aktiwiteite vereis dat 'n basiese Omgewingsimpakevaluering proses ter ondersteuning van die Omgewingsmagtiging aansoek gedoen word. Die aansoek sal mettertyd by die bevoegde owerheid, die Mpumalanga Departement van Landbou, Landelike Ontwikkeling, Grond en Omgewingsake, ingedien word. By aanvaarding van die aansoek, sal die Bevoegde Owerheid 'n verwysingsnommer vir die aansoek uitreik. Die verwysingsnommer sal daarna gekommunikeer word aan Belanghebbende en Geaffekteerde Partye.

Die volgende verslae is van toepassing tot hierdie aansoek vir Omgewingsmagtiging:

- 'n Basiese Omgewingsimpakevalueringverslag in ooreenstemming met Bylae 1 van die OIE-regulasies, 2014, soos gewysig; en
- 'n Omgewingsbestuursprogram in ooreenstemming met Bylae 4 van die OIE-regulasies, 2014, soos gewysig.

**PUBLIEKE DEELNAME PROSESSE**

Die publieke deelname proses vir die bogenoemde aansoek word uitgevoer volgens die vereistes van Hoofstuk 6 van die OIE-Regulasies van 4 Desember 2014, soos gewysig. Indien u wil registreer as 'n Belanghebbende en Geaffekteerde Party vir die voorgestelde projek en daarna op hoogte gehou word van die vordering van die projek en alle publieke deelname geleenthede, versoek asseblief en voltooi 'n "Belanghebbende en Geaffekteerde Party" registrasie vorm (verkygbaar by die Omgewingsimpakevalueringpraktisyn vir die projek). Voltooi die "Belanghebbende en Geaffekteerde Party" registrasievorm met asseblief gestuur word aan die Omgewingsimpakevalueringpraktisyn, Lourens de Villiers, by die kontakbesonderhede hieronder. Alternatiewelik kan jy ook jou naam, kontakbesonderhede en belang in die saak skriftelik aan die Omgewingsimpakevalueringpraktisyn verskaf.

Soos vereis in die OIE-Regulasies, was 'n koerantadvertensie in die Witbank Nuus koerant geplaas op 19 Maart 2021.

Die Omgewingsimpakevalueringverslag sal beskikbaar gestel word aan die publiek vir hersiening en om kommentaar te lewer vir 'n tydperk van 30 dae, (presiese datums sal aan geregestreerde Belanghebbende en Geaffekteerde Partye gekommunikeer word). Elektroniese kopieë van die verslag sal per e-pos of geregestreerde pos aan geregestreerde Belanghebbende en Geaffekteerde Partye voorsien word. Laat weet ons asseblief indien u 'n harde kope van die verslag vereis.

Indien u enige verdere inligting benodig, kontak gerus die Omgewingsimpakevalueringpraktisyn by die kontak besonderhede hieronder.

**Labesh (Pty) Ltd**

Lourens de Villiers  
Tel: 082 789 6525  
E-pos: info@labesh.co.za  
Faks na E-pos: 086 552 6837  
Posadres: PostNet Boks #469, Privatsak X504, Sinoville, 0129

## Appendix 2: Written notices issued as required in terms of the regulations

### Appendix 2.1 – Written Notices



Postnet Box 469, Private Bag X504, Sinoville, 0129  
Tell: 087 230 8462  
Cell: 082 789 6525  
Email: info@labesh.co.za

March 19, 2021

Mpumalanga Department of Agriculture, Rural Development and Land Administration  
Private Bag X11219  
Nelspruit  
1200

Attention: Mr. Jan Venter

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AUTHORITY**

This letter serves to inform you, as a potential Interested and Affected Party, of the proposed application for Environmental Authorisation for the proposed new Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS project. The Environmental Authorisation (EA) application will be lodged with the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs (the Competent Authority [CA]) in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Regulations in terms of sections 24(5) and 44 of the NEMA, 1998), as amended. For this Environmental Authorisation application, a Basic Environmental Impact Assessment process will be conducted.

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Project Applicant	Mlangeni Family Trust
Project EIA Reference Number	To be confirmed upon submission of the EA to the CA
Project Name	New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS
Project Location	Portion 513 of the Farm Naauwpoort 335 JS
Project GPS Coordinates	25° 57'58.22"S; 29°16'2.43"E
Environmental Assessment Practitioner for the project	Labesh (Pty) Ltd - Lourens de Villiers Tel: 082 789 6525 Email: info@labesh.co.za Fax to Email: 086 552 6837 Postal Address: PostNet Box #469, Private Bag X504, Sinoville, 0129

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Labesh (Pty) Ltd.



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Tell: 087 230 8462  
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Email: info@labesh.co.za

Please do not hesitate to contact me should you require any additional information or if any of the information provided in this letter is unclear.

Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner

---

Labesh (Pty) Ltd.





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March 19, 2021

Mpumalanga Department of Agriculture, Rural Development and Land Administration  
 Private Bag X11219  
 Nelspruit  
 1200

Attention: CHP Kleynhans

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Please do not hesitate to contact me should you require any additional information or if any of the information provided in this letter is unclear.

Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner



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Email: info@labesh.co.za

March 19, 2021

Mpumalanga Department of Community Safety, Security and Liaison  
Private Bag X11269  
Nelspruit  
1200

Attention: Mr. W Mthombothi

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner



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March 19, 2021

Mpumalanga Department of Co-operative Governance and Traditional Affairs  
 Private Bag X11304  
 Nelspruit  
 1200

Attention: Mr. M. Z Lushaba

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Labesh (Pty) Ltd.



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Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner





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Email: info@labesh.co.za

March 19, 2021

Mpumalanga Department of Co-operative Governance and Traditional Affairs  
Private Bag X11304  
Nelspruit  
1200

Attention: Mr. B. C Ntiwane

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Labesh (Pty) Ltd.



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Please do not hesitate to contact me should you require any additional information or if any of the information provided in this letter is unclear.

Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner



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March 19, 2021

Mpumalanga Department of Culture, Sport and Recreation  
 PO Box 1243  
 Nelspruit  
 1200

Attention: Dr. PM Lubisi

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Managing Director and Environmental Assessment Practitioner



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March 19, 2021

Mpumalanga Department of Finance  
Private Bag X11205  
Nelspruit  
1200

Attention: E. Chego

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner





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March 19, 2021

Mpumalanga Department of Finance  
Private Bag X11205  
Nelspruit  
1200

Attention: Ms. N. Z Nkamba

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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<b>Project Name</b>	New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS
<b>Project Location</b>	Portion 513 of the Farm Naauwpoort 335 JS
<b>Project GPS Coordinates</b>	25° 57'58.22"S; 29°16'2.43"E
<b>Environmental Assessment Practitioner for the project</b>	Labesh (Pty) Ltd - Lourens de Villiers Tel: 082 789 6525 Email: info@labesh.co.za Fax to Email: 086 552 6837 Postal Address: PostNet Box #469, Private Bag X504, Sinoville, 0129

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Labesh (Pty) Ltd.



Postnet Box 469, Private Bag X504, Sinoville, 0129  
Toll: 087 230 8462  
Cell: 082 789 6525  
Email: info@labesh.co.za

Please do not hesitate to contact me should you require any additional information or if any of the information provided in this letter is unclear.

Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner



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Email: info@labesh.co.za

March 19, 2021

Mpumalanga Department of Health  
Private Bag X11285  
Nelspruit  
1200

Attention: Mr. Pauleck Makhubela

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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March 19, 2021

Mpumalanga Department of Health  
Private Bag X11285  
Nelspruit  
1200

Attention: Mrs. C Swart

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Managing Director and Environmental Assessment Practitioner





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March 19, 2021

Mpumalanga Department of Human Settlements  
Private Bag X11328  
Nelspruit  
1200

Attention: Mr D. Dube / Mr S. Mstweni

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Managing Director and Environmental Assessment Practitioner



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March 19, 2021

Department of Mineral Resources  
Private Bag X7279  
Emalahleni  
1035

Attention: Mr. A Tshivhandekano

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Labesh (Pty) Ltd.



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March 19, 2021

Mpumalanga Department of Public Works, Roads and Transport  
Private Bag X11310  
Nelspruit  
1200

Attention: Mr K. M Mohlasedi

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Labesh (Pty) Ltd.



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March 19, 2021

Mpumalanga Department of Social Development  
Private Bag X11285  
Nelspruit  
1200

Attention: Ms. Ninegi Mlengi

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Email: info@labesh.co.za

March 23, 2021

Department of Water and Sanitation  
Private Bag X10580  
Bronkhorstspuit  
1020

Attention: Ms. M Moloto

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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 Email: info@labesh.co.za

March 19, 2021

Department of Water and Sanitation  
 Private Bag X10580  
 Bronkhorstpruit  
 1020

Attention: Ms. B Mnguni

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Labesh (Pty) Ltd.



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March 19, 2021

Emalahleni Local Municipality  
 PO Box 3  
 Emalahleni  
 1035

Attention: Mr H.S Mayisela

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

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Labesh (Pty) Ltd.



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 Email: info@labesh.co.za

March 19, 2021

Nkangala District Municipality  
 PO Box 437  
 Middelburg  
 1050

Attention: Mr. V Mahlangu

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

This letter serves to inform you, as a potential Interested and Affected Party, of the proposed application for Environmental Authorisation for the proposed new Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS project. The Environmental Authorisation (EA) application will be lodged with the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs (the Competent Authority [CA]) in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Regulations in terms of sections 24(5) and 44 of the NEMA, 1998), as amended. For this Environmental Authorisation application, a Basic Environmental Impact Assessment process will be conducted.

The following table provides a brief summary of the project details. A Background Information Document (BID) is attached to this notification letter and contains more detail regarding the proposed project. Please also find attached an "Interested and Affected Party" registration form. This form should please be completed should you wish to register as an Interested and Affected Party for the proposed project and subsequently be kept informed of the progress of the project and all public participation opportunities as the application process proceeds. Completed "Interested and Affected Party" registration forms should please be submitted to the Environmental Assessment Practitioner (EAP) for the project, Lourens de Villiers, at the contact details provided below. Alternatively, you may also submit your name, contact information and interest in the matter, in writing, to the EAP at the contact details provided. Please send the registration information to the EAP before or on the **20<sup>th</sup> of April 2021**.

<b>Project Applicant</b>	Mlangeni Family Trust
<b>Project EIA Reference Number</b>	To be confirmed upon submission of the EA to the CA
<b>Project Name</b>	New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS
<b>Project Location</b>	Portion 513 of the Farm Naauwpoort 335 JS
<b>Project GPS Coordinates</b>	25° 57'58.22"S; 29°16'2.43"E
<b>Environmental Assessment Practitioner for the project</b>	Labesh (Pty) Ltd - Lourens de Villiers Tel: 082 789 6525 Email: info@labesh.co.za Fax to Email: 086 552 6837 Postal Address: PostNet Box #469, Private Bag X504, Sinoville, 0129

---

Labesh (Pty) Ltd.



Postnet Box 469, Private Bag X504, Sinoville, 0129  
Toll: 087 230 8462  
Cell: 082 789 6525  
Email: info@labesh.co.za

Please do not hesitate to contact me should you require any additional information or if any of the information provided in this letter is unclear.

Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner



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Email: info@labesh.co.za

March 19, 2021

Nkangala District Municipality  
PO Box 437  
Middelburg  
1050

Attention: Municipal Manager

**NOTIFICATION OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP DEVELOPMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS; EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF ENVIRONMENTAL APPLICATION TO THE COMPETENT AURHORITY**

This letter serves to inform you, as a potential Interested and Affected Party, of the proposed application for Environmental Authorisation for the proposed new Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS project. The Environmental Authorisation (EA) application will be lodged with the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs (the Competent Authority [CA]) in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Regulations in terms of sections 24(5) and 44 of the NEMA, 1998), as amended. For this Environmental Authorisation application, a Basic Environmental Impact Assessment process will be conducted.

The following table provides a brief summary of the project details. A Background Information Document (BID) is attached to this notification letter and contains more detail regarding the proposed project. Please also find attached an "Interested and Affected Party" registration form. This form should please be completed should you wish to register as an Interested and Affected Party for the proposed project and subsequently be kept informed of the progress of the project and all public participation opportunities as the application process proceeds. Completed "Interested and Affected Party" registration forms should please be submitted to the Environmental Assessment Practitioner (EAP) for the project, Lourens de Villiers, at the contact details provided below. Alternatively, you may also submit your name, contact information and interest in the matter, in writing, to the EAP at the contact details provided. Please send the registration information to the EAP before or on the **20<sup>th</sup> of April 2021**.

<b>Project Applicant</b>	Mlangeni Family Trust
<b>Project EIA Reference Number</b>	To be confirmed upon submission of the EA to the CA
<b>Project Name</b>	New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS
<b>Project Location</b>	Portion 513 of the Farm Naauwpoort 335 JS
<b>Project GPS Coordinates</b>	25° 57'58.22"S; 29°16'2.43"E
<b>Environmental Assessment Practitioner for the project</b>	Labesh (Pty) Ltd - Lourens de Villiers Tel: 082 789 6525 Email: info@labesh.co.za Fax to Email: 086 552 6837 Postal Address: PostNet Box #469, Private Bag X504, Sinoville, 0129

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Please do not hesitate to contact me should you require any additional information or if any of the information provided in this letter is unclear.

Regards,

Lourens de Villiers  
Managing Director and Environmental Assessment Practitioner



**BACKGROUND INFORMATION DOCUMENT – ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE FOLLOWING PROJECT: NEW TOWNSHIP ESTABLISHMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS. EIA REFERENCE NUMBER: TO BE CONFIRMED UPON SUBMISSION OF THE ENVIRONMENTAL APPLICATION TO THE COMPETENT AUTHORITY**

This Background Information Document (BID) serves to inform you, as a potential Interested and Affected Party (I&AP), of the application for Environmental Authorisation for the proposed Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS project. The Environmental Authorisation application will be lodged with the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs (the Competent Authority [CA]) in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment (EIA) Regulations, 2014 (Regulations in terms of Sections 24(5) and 44 of the NEMA, 1998), as amended.

Labesh (Pty) Ltd has been appointed by the applicant, Mlangeni Family Trust, in terms of Regulation 12 of the Environmental Impact Assessment Regulations (GNR. 982 of 4 December 2014), as amended, as the independent Environmental Assessment Practitioner (EAP) tasked with conducting the abovementioned application processes. Labesh complies with the necessary requirements of Regulation 13 of GNR. 982 of 4 December 2014 as amended.

**DESCRIPTION OF CURRENT OPERATIONS**

The project site is currently open, vacant land.

**PROJECT DESCRIPTION**

The proposed development will entail a new township establishment on Portion 513 of the Farm Naauwpoort 335 JS, for Industrial use. The proposed township will consist of two sections located on both sides (North and South) of a Provincial road (R544) that runs from Emalahleni to Bethal.

Proposed Development Footprint: Approximately 16.7859 Hectares

**PROJECT LOCATION**

GPS Coordinates: 25° 57'58.22"S; 29°16'2.43"E. Portion 513 of the Farm Naauwpoort 335 JS, Emalahleni Local Municipality, Mpumalanga Province.

**LEGISLATION RELEVANT TO THE PROJECT**

The proposed project requires Environmental Authorisation for the following listed activities in terms of the Environmental Impact Assessment Regulations, 2014, as amended:

- GNR. 327 of 7 April 2017 (Listing Notice 1): Activity No. 27: The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except 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.
- GNR. 327 of 7 April 2017 (Listing Notice 1): Activity No. 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 1 hectare; Excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.

The above-mentioned activities require a Basic Environmental Impact Assessment process to be conducted in support of the Environmental Authorisation application. The application will be submitted to the Competent Authority, the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs in due course.



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Upon acceptance of the application, the Competent Authority will issue a reference number for the application. This reference number will be communicated upon its receipt from the Competent Authority.

The following reports are applicable to this application for Environmental Authorisation:

- A Basic Assessment Report in accordance with Appendix 1 of the EIA Regulations, 2014, as amended; and
- An Environmental Management Programme in accordance with Appendix 4 of the EIA Regulations, 2014, as amended.

#### **PUBLIC PARTICIPATION PROCESSES**

The public participation processes for the above-mentioned application are conducted according to the requirements of Chapter 6 of the EIA Regulations of 4 December 2014, as amended. Should you wish to register as an Interested and Affected Party for the proposed project and subsequently be kept informed of the progress of the project and all public participation opportunities as the application process proceeds, please complete the "Interested and Affected Party" registration form that forms part of this BID. Completed "Interested and Affected Party" registration forms should please be submitted to the EAP for the project, Lourens de Villiers, at the contact details provided below. Alternatively, you may also submit your name, contact information and interest in the matter, in writing, to the EAP at the contact details provided. Please send the registration information to the EAP before or on the **20<sup>th</sup> of April 2021**.

As required in the EIA Regulations, site notice boards will/have been placed on the project property boundary and a newspaper advertisement will be placed in the Witbank News Newspaper on the 19<sup>th</sup> of March 2021.

The Basic Assessment Report will be made available to the public for review and commenting for a period of 30 days, at a later stage during this public participation process (exact dates will be communicated to registered I&APs). Electronic copies of the report will be provided to registered Interested and Affected Parties via email or registered post. Please inform us should you require a hard copy of the report.

Should you require any additional information, please do not hesitate to contact the EAP at the details provided below.

**Labesh (Pty) Ltd** – Lourens de Villiers  
Tel: 082 789 6525  
Email: info@labesh.co.za  
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Postal Address: PostNet Box #469, Private Bag X504, Sinoville, 0129

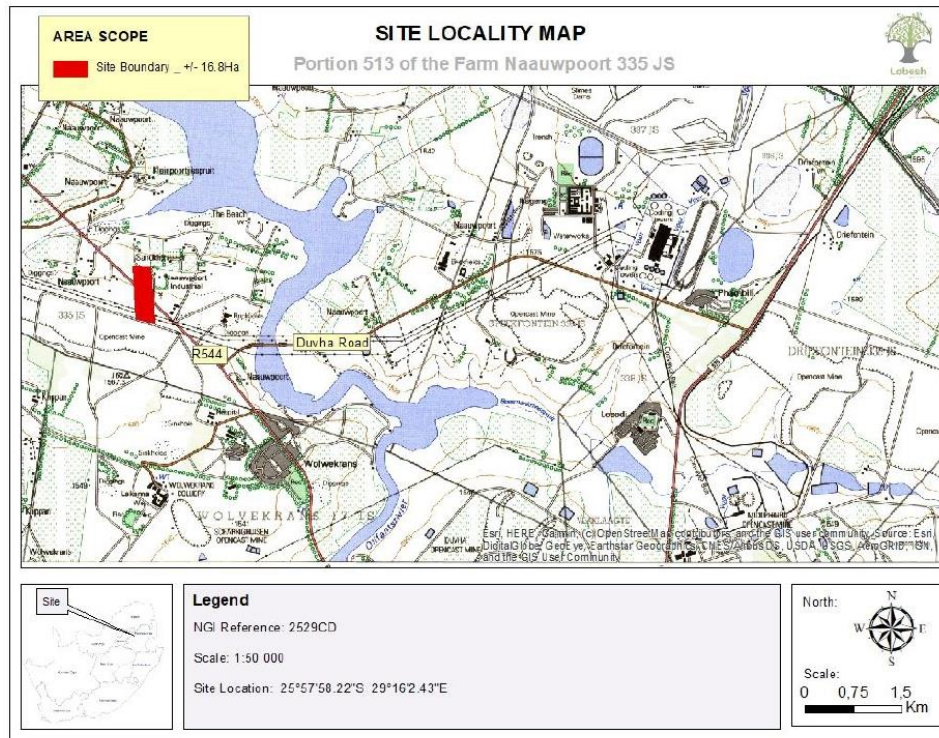


Figure 1: Site Locality Map







## Appendix 2.2 – Written Notices – Emailed

### Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:09  
**To:** 'jventer@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** Department of Agriculture, Rural Development and Land Administration(1).pdf; BID\_Benicon2.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



Antoinette Burger  
 Assistant Environmental Consultant  
 Cell: 082 789 6525  
 Tell: 087 230 8462  
 Fax: 086 406 0431  
 Email: antoinette@labesh.co.za  
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 Private Bag X504  
 Sinoville 0129

1

### Info

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:09  
**To:** 'Tiaan Kleynhans'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** BID\_Benicon2.pdf; Department of Agriculture, Rural Development and Land Administration.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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 Private Bag X504  
 Sinoville 0129

1



**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:06  
**To:** 'williamm@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Attachments:** BID\_Benicon2.pdf; Department of Community Safety, Security and Liaison.pdf

**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:11  
**To:** 'mzmantashe@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Attachments:** Department of Co-operative Governance and Traditional Affairs(1).pdf; BID\_Benicon2.pdf

**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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## Info

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:10  
**To:** 'bcntiwane@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** BID\_Benicon2.pdf; Department of Co-operative Governance and Traditional Affairs.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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1

## Info

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:13  
**To:** 'PMLubisi@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** BID\_Benicon2.pdf; Department of Culture, Sport and Recreation.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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1

**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:15  
**To:** 'echego@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** BID\_Benicon2.pdf; Department of Finance(1).pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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 Assistant Environmental Consultant  
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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:14  
**To:** 'nzkamba@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** Department of Finance.pdf; BID\_Benicon2.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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 Assistant Environmental Consultant  
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 Private Bag X504  
 Sinoville 0129

**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:12  
**To:** 'Pauleck Makhubela'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** Department of Health(1).pdf; BID\_Benicon2.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:11  
**To:** 'CareenS@mpuhealth.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** BID\_Benicon2.pdf; Department of Health.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:13  
**To:** 'APohl@mpg.gov.za'; 'ntzulu@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** Department of Human Settlements.pdf; BID\_Benicon2.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:15  
**To:** 'Aubrey.Tshivhandekano@dmr.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** Department of Mineral Resources.pdf; BID\_Benicon2.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:07  
**To:** 'kmohlasedi@mpg.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** Department of Public Works, Roads and Transport.pdf; BID\_Benicon2.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

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**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

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Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



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 Sinoville 0129

**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:12  
**To:** 'paulb@dsdmpu.gov.za'; 'HlengiweT@dsdmpu.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** BID\_Benicon2.pdf; Department of Social Development.pdf  
**Importance:** High

Good day

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 Tell: 087 230 8462  
 Fax: 086 406 0431  
 Email: antoinette@labesh.co.za  
 Postnet Box 469  
 Private Bag X504  
 Sinoville 0129



**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Tuesday, 23 March 2021 12:19  
**To:** 'molotom@dws.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Attachments:** Department of Water and Sanitation(1).pdf; BID\_Benicon2.pdf

**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

Antoinette Burger on behalf of Lourens de Villiers (EAP for the project).



Antoinette Burger  
 Assistant Environmental Consultant  
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 Tell: 087 230 8462  
 Fax: 086 406 0431  
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 Private Bag X504  
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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:08  
**To:** 'MnguniB@dws.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Attachments:** Department of Water and Sanitation.pdf; BID\_Benicon2.pdf

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:08  
**To:** 'officeofmm@emalaheni.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** BID\_Benicon2.pdf; Emalaheni Local Municipality.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

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**Info**

---

**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:08  
**To:** 'mahlanguv@nkangaladm.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority  
**Attachments:** Nkangala District Municipality(1).pdf; BID\_Benicon2.pdf  
**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

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## Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Friday, 19 March 2021 13:07  
**To:** 'mm@nkangaladm.gov.za'; 'nkosinm@nkangaladm.gov.za'  
**Subject:** Public Participation Notification - Environmental Authorisation Application for the following project: New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Attachments:** BID\_Benicon2.pdf; Nkangala District Municipality.pdf

**Importance:** High

Good day

Please find attached a Notification Letter and Background Information Document relating to the following, for your attention please:

**Environmental Authorisation Application for the following project: Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS**

**EIA Reference Number: To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority**

Please do not hesitate to contact us should you require further information in this regard.

Regards,

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**NOTICE OF ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE PROPOSED NEW TOWNSHIP  
ESTABLISHMENT ON PORTION 513 OF THE FARM NAAUWPOORT 335 JS  
EIA REF NO.: TO BE CONFIRMED UPON SUBMISSION OF EA APPLICATION TO THE COMPETENT  
AUTHORITY**

This newspaper advertisement serves to inform you, as a potential Interested and Affected Party (I&AP), of the proposed application for Environmental Authorisation (EA) for the new Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS project. The EA application will be lodged with the Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs (Competent Authority) in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended. Labesh (Pty) Ltd has been appointed by the applicant, Mlangeni Family Trust, in terms of Regulation 12 of the EIA Regulations (GNR. 982 of 4 December 2014), as amended, as the independent Environmental Assessment Practitioner (EAP) tasked with conducting the above mentioned application processes. Labesh complies with the necessary requirements of Regulation 13 of GNR. 982 of 4 December 2014, as amended.

**PROJECT DESCRIPTION:**

The proposed development will entail a new township establishment on Portion 513 of the Farm Naauwpoort 335 JS, for Industrial use. The proposed township will consist of two sections located on both sides (North and South) of a Provincial road (R544) that runs from Emalahleni to Bethal.

Proposed Development Footprint: Approximately 16.7859 Hectares

**PROJECT LOCATION:**

Portion 513 of the Farm Naauwpoort 335 JS, Emalahleni Local Municipality, Mpumalanga Province;  
GPS Coordinates: 25° 57'58.22"S; 29°16'2.43"E

**APPLICABLE LEGISLATION:** The proposed project requires EA for the following listed activities in terms of the EIA Regulations, 2014, as amended:

- GNR. 327 of 7 April 2017 (Listing Notice 1), as amended: Activity 27: The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except 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.
- GNR. 327 of 7 April 2017 (Listing Notice 1), as amended: 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 1 hectare; Excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.

The above mentioned activities require a Basic Environmental Impact Assessment process to be conducted in support of the EA application. The application will be submitted to the Competent Authority in due course. Upon acceptance of the application, the Competent Authority will issue a reference number for the application. This reference number will be communicated to I&APs upon its receipt.

**PUBLIC PARTICIPATION PROCESSES:** The public participation processes for the above mentioned applications are conducted according to the requirements of Chapter 6 of the EIA Regulations of 4 December 2014, as amended. Should you wish to register as an I&AP for the proposed project and be kept informed of the progress of the project and public participation opportunities, please request and complete an "Interested and Affected Party" registration form (obtainable from the EAP). Completed I&AP registration forms should please be submitted to the EAP, Lourens de Villiers, at the contact details provided below. Alternatively, you may also submit your name, contact information and interest in the matter, in writing, to the EAP at the contact details provided. As required in the EIA Regulations, site notice boards will be placed on the project property boundary. The Basic Assessment Report will be made available to the public for review and commenting for a period of 30 days, (exact dates will be communicated to registered I&APs). Electronic copies of the report will be provided to registered I&APs via email or registered post. Please inform us should

you require a hard copy of the report. Should you require any additional information, please do not hesitate to contact the EAP at the details provided below.

**Labesh (Pty) Ltd:** Lourens de Villiers - Tel: 082 789 6525; Email: [info@labesh.co.za](mailto:info@labesh.co.za); Fax to Email: 086 552 6837; Postal Address: PostNet Box #469, Private Bag X504, Sinoville, 0129.



## Info

---

**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:54  
**To:** 'jventer@mpg.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

**Attention:**

Good Day

As per the **Environmental Authorisation Application for the following project:** Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS; **EIA Reference Number:** To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority, we would like to inform you that the Draft Basic Assessment Report will be made available for review and commenting on the 15<sup>th</sup> of April 2021 until the 24<sup>th</sup> of May 2021.

A Dropbox link will be send via email that will provide access to the Draft Basic Assessment Report and all other relevant documents.

Please do not hesitate to contact us should you require assistance or any other information in this regard.

Regards,  
Antoinette Burger

On behalf of Lourens De Villiers (EAP for the project)



Antoinette Burger  
Assistant Environmental Consultant  
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## Info

---

**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:54  
**To:** 'Tiaan Kleynhans'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

Good Day

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On behalf of Lourens De Villiers (EAP for the project)



Antoinette Burger

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## Info

---

**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:52  
**To:** 'williamm@mpg.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

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Antoinette Burger

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## Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:54  
**To:** 'mzmantashe@mpg.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

Good Day

As per the **Environmental Authorisation Application for the following project:** Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS; **EIA Reference Number:** To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority, we would like to inform you that the Draft Basic Assessment Report will be made available for review and commenting on the 15<sup>th</sup> of April 2021 until the 24<sup>th</sup> of May 2021.

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## Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:54  
**To:** 'bcntiwane@mpg.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

Good Day

As per the **Environmental Authorisation Application for the following project:** Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS; **EIA Reference Number:** To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority, we would like to inform you that the Draft Basic Assessment Report will be made available for review and commenting on the 15<sup>th</sup> of April 2021 until the 24<sup>th</sup> of May 2021.

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Antoinette Burger

Assistant Environmental Consultant

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## Info

---

**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:56  
**To:** 'PMLubisi@mpg.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

Good Day

As per the **Environmental Authorisation Application for the following project:** Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS; **EIA Reference Number:** To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority, we would like to inform you that the Draft Basic Assessment Report will be made available for review and commenting on the 15<sup>th</sup> of April 2021 until the 24<sup>th</sup> of May 2021.

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Email: antoinette@labesh.co.za  
Postnet Box 469  
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## Info

---

**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:56  
**To:** 'nzkamba@mpg.gov.za'; 'echeho@mpg.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

Good Day

As per the **Environmental Authorisation Application for the following project:** Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS; **EIA Reference Number:** To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority, we would like to inform you that the Draft Basic Assessment Report will be made available for review and commenting on the 15<sup>th</sup> of April 2021 until the 24<sup>th</sup> of May 2021.

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## Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:55  
**To:** 'Pauleck Makhubela'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

Good Day

As per the **Environmental Authorisation Application for the following project:** Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS; **EIA Reference Number:** To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority, we would like to inform you that the Draft Basic Assessment Report will be made available for review and commenting on the 15<sup>th</sup> of April 2021 until the 24<sup>th</sup> of May 2021.

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## Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:54  
**To:** 'CareenS@mpuhealth.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

Good Day

As per the **Environmental Authorisation Application for the following project:** Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS; **EIA Reference Number:** To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority, we would like to inform you that the Draft Basic Assessment Report will be made available for review and commenting on the 15<sup>th</sup> of April 2021 until the 24<sup>th</sup> of May 2021.

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## Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:55  
**To:** 'APohl@mpg.gov.za'; 'ntzulu@mpg.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

Good Day

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## Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:56  
**To:** 'Aubrey.Tshivhandekano@dmr.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

Good Day

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:53  
**To:** 'kmohlasedi@mpg.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

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## Info

---

**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:55  
**To:** 'paulb@dsdmpu.gov.za'; 'HlengiweT@dsdmpu.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:53  
**To:** 'MnguniB@dws.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

Good Day

As per the **Environmental Authorisation Application for the following project:** Proposed New Township Establishment on Portion 513 of the Farm Naauwpoort 335 JS; **EIA Reference Number:** To be confirmed upon submission of Environmental Authorisation Application to the Competent Authority, we would like to inform you that the Draft Basic Assessment Report will be made available for review and commenting on the 15<sup>th</sup> of April 2021 until the 24<sup>th</sup> of May 2021.

A Dropbox link will be send via email that will provide access to the Draft Basic Assessment Report and all other relevant documents.

Please do not hesitate to contact us should you require assistance or any other information in this regard.

Regards,  
Antoinette Burger

On behalf of Lourens De Villiers (EAP for the project)



Antoinette Burger  
Assistant Environmental Consultant  
Cell: 082 789 6525  
Tel: 087 230 8462  
Fax: 086 406 0431  
Email: antoinette@labesh.co.za  
Postnet Box 469  
Private Bag X504  
Sinoville 0129

## Info

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:53  
**To:** 'officeofmm@emalahleni.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

**Importance:** High

### Attention:

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:53  
**To:** 'mahlangumv@nkangaladm.gov.za'  
**Subject:** Draft Basic Assessment Report - Environmental Authorization Application: Proposed New Township Establishment on Portion 513 Naauwpoort; EIA Reference Number: To be confirmed upon submission of EA to the Competent Authority

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**From:** Info <info@labesh.co.za>  
**Sent:** Thursday, 08 April 2021 14:53  
**To:** 'mm@nkangaladm.gov.za'; 'nkosinm@nkangaladm.gov.za'  
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Appendix 5 – Minutes of any public and/or stakeholder meetings

No public or stakeholder meetings have been held.



## Appendix 6 – Comments and responses report

No comments have been received from Interested & Affected Parties.

Appendix 7 – Comments from I&APs on Basic Assessment (BA) Report

No comments have been received on the Basic Assessment Report.

Appendix 8 – Comments from I&APs on amendments to the BA Report

There has been no amendments to the BA Report.

Appendix 9 – Copy of the registered I&APs

There are no registered Interested & Affected Parties.

# APPENDIX D – Specialist Studies

The specialist studies for this project are attached to this report.

## APPENDIX E – Other Information

The Environmental Management Programme (EMP) for this project are attached to this report.





# LABESH

## ENVIRONMENTAL CONSULTANTS

### ABILITY TO SUSTAIN . . .

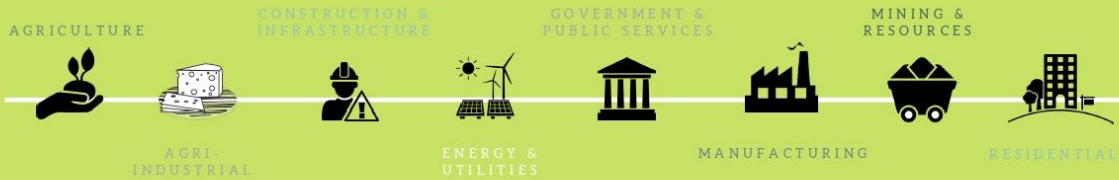
#### MISSION

Our mission at Labesh is to be a client focused company that is able and accountable and delivers a quality service on time.

#### VISION

To provide solid, scientific solutions in a socially challenged environment where the outcome is harmonious to people and the environment.

### INDUSTRIES



### SERVICES & EXPERTISE





# LABESH

ENVIRONMENTAL CONSULTANTS

MORE THAN 200 . . .

ENVIRONMENTAL  
IMPACT  
ASSESSMENTS  
(EIA'S)

WASTE LICENSES

AIR EMISSION  
LICENSES

WATER-USE  
LICENSES

RECTIFICATION  
APPLICATIONS



DIRECTOR / FOUNDER

LOURENS DE VILLIERS

B.Sc Earth Science; Hons B.Sc Geography and Environmental Studies; M.Sc Water Resource Management

Email: [lourens@labesh.co.za](mailto:lourens@labesh.co.za) / [info@labesh.co.za](mailto:info@labesh.co.za)

Cell: 082 789 6525



# LOURENS DE VILLIERS

DIRECTOR / FOUNDER

## PERSONAL PROFILE

I regard myself as a well renowned Environmental Assessment Practitioner with 18 years of experience in the discipline of environmental assessment and management.

I value the importance of a collective approach from various disciplines in order to establish a more sustainable outcome.

I am privileged to have a broad client base with the majority of them being personally serviced for more than 10 years.

## SKILLS & INTERESTS

- Principle Environmental Assessment Practitioner
- British Standard International ISO 14001 Lead Environmental Auditor
- International Global GAP Farm Assurer
- Plant Propagator

# RESUME

## WORK HISTORY

### Director / Founder

Labesh (Pty) Ltd, 2016 to Present

- Conducting EIA's
- Compiling EMP's for EIA's
- Conducting due diligence audits
- Conducting legal compliance audits
- Environmental management performance audits
- Natural resource optimization strategy

### Director and Partner

Shangoni Management Services (Pty) Ltd , 2011 to 2016

- Conducting EIA's
- Compiling EMP's for EIA's
- Conducting due diligence audits
- Conducting legal compliance audits
- Internal ISO 14001 audits
- External ISO 14001 certification audits

### Director

Prohibeo Environmental Management Solutions, 2004 to 2011

- Conducting EIA's
- Compiling EMP's for EIA's
- Compiling Soil and Land Capability Assessments as part of EIA's
- Conducting due diligence audits
- Conducting legal compliance audits
- Environmental management performance audits
- Natural resource optimization strategy

### Manager

Newtown Associates Environmental Services CC, 2003 to 2004

- Conducting of EMP's for mining industry
- Conducting EMP performance assessments for mining industry
- Compiling Soil and Land Capability Assessments as part of EIA's
- Conducting EIA's
- Conducting EMP's for EIA's
- Conducting due diligence audits
- Conducting legal compliance audits
- Conducting Environmental Risk Assessments

### Environmental Consultant

Helio Alliance (Pty) Ltd, 2002 to 2003

- Conducting of EMP's for mining industry
- Conducting EMP performance assessments for mining industry
- Compiling Soil and Land Capability Assessments as part of EIA's
- Conducting EIA's
- Conducting EMP's for EIA's
- Conducting due diligence audits
- Conducting legal compliance audits
- Conducting Environmental Risk Assessments





# LOURENS DE VILLIERS

DIRECTOR / FOUNDER

## GET IN TOUCH

Mobile: 082 789 6525

Email: lourens@labesh.co.za

Residential Address: Plot 24, Soutpan Road,  
Haakdoornboom, Pretoria 0200

Postal Address: Postnet Box 469, Private Bag  
X504, Sinoville, 0129

# RESUME

## ACADEMIC BACKGROUND

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### University of Pretoria

M.Sc Water Resource Management, 2003

### North West University

B.Sc (Hons) Geography and Environmental Studies, 1999

### North West University

B.Sc Earth Science, 1998

## COURSES COMPLETED

---

1998 - 1999 : Prestige Leadership Development

2000 : Advanced EMS Auditing Course for Quality and Environmental Professionals

2002 : Public Presentation Skills

2010 : Implementation of Environmental Management Systems

2010 : Auditing Environmental Management Systems

2010 : Environmental Law

2014 : Waste Classification

2015 : Advanced HACCP

2015 : Train the Trainer

2016 : Transition from ISO 14001:2004 to ISO 14001: 2015 - Environmental Management Systems.

2017 & 2019: Global GAP International Farm Assurer