

DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED MOOKGOPONG X10

Part of Portion 17 of the farm Vlakfontein 522 KR



REFERENCE: 12/1/9/1-W91

DECEMBER 2014

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LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
ECONOMIC DEVELOPMENT, ENVIRONMENT & TOURISM
BASIC ASSESSMENT REPORT - EIA REGULATIONS, 2010

Basic Assessment report in terms of the Environmental Impact Assessment Regulations, 2010, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

File Reference Number:

12/1/9/1-W91

NEAS Reference Number:

(For official use only)

LIM/EIA/0000928/2014

Date Received:

Due date for acknowledgement:

Due date for acceptance:

Due date for decision

Kindly note that:

1. The report must be compiled by an independent Environmental Assessment Practitioner.
2. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable **tick** the boxes that are applicable in the report.
4. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the Department of Economic Development, Environment and Tourism as the competent authority (Department) for assessing the application, it may result in the rejection of the application as provided for in the regulations.
5. An incomplete report may be returned to the applicant for revision.
6. Unless protected by law, all information in the report will become public information on receipt by the department. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.

Cnr Suid & Dorp Streets, POLOKWANE, 0700, P O Box 55464, POLOKWANE, 0700
Tel: 015 290 7138/ 7167, Fax: 015 295 5015, website: <http://www.ledet.gov.za>

The heartland of southern Africa – development is about people!

8. Regulations refer to Environmental Impact Assessment (EIA) Regulations of 2010.
9. The Department may require that for specified types of activities in defined situations only parts of this report need to be completed. No faxed or e-mailed reports will be accepted.
10. This application form must be handed in at the offices of the Department of Economic Development, Environment and Tourism:-

Postal Address: Central Administration Office Environmental Impact Management P. O. Box 55464 POLOKWANE 0700	Physical Address: Central Administration Office Environmental Affairs Building Cnr Suid and Dorp Streets POLOKWANE 0699
Queries should be directed to the Central Administration Office: Environmental Impact Management:- For attention: Mr E. V. Maluleke Tel: (015) 290 7138/ (015) 290 7167 Fax: (015) 295 5015 Email: malulekeev@ledet.gov.za	

View the Department's website at <http://www.ledet.gov.za> for the latest version of the documents.

SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section?

YES	NO X
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If YES, please complete the form entitled "Details of specialist and declaration of interest" or appointment of a specialist for each specialist thus appointed:

Any specialist reports must be contained in **Appendix D**.

1. ACTIVITY DESCRIPTION

Describe the activity, which is being applied for, in detail¹:

Mookgopong x 10 (formally known as Mookgopong x 7) is situated on a part of Portion 17 of the farm Vlakfontein 522 KR; Mookgopong, Limpopo Province. The proposed development by Mookgopong Square Ontwikkelings (Pty) Ltd is for a Shopping Centre and streets that will consist of the following uses "Special" for:

- Shops;
- Wholesale trade;
- Commercial uses;
- Offices;
- Medical consulting rooms;
- Restaurants;
- Places of amusement;
- Places of instruction;
- Places of refreshment;
- Bakeries;
- Dry cleaners;
- Builders yard;
- Institution (provided that the Private Clinic is restricted to 13 beds);
- Dispensing chemist;
- Social hall;
- Vehicle sales lot; and
- Hotel.

The site is situated on the corner of the R101 - Thabo Mbeki Street and First Avenue in

¹ Please note that this description should not be a verbatim repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description.

the Mookgopong Township. The proposed development site is 4.8 hectares in extent, but the Shopping centre will only cover 8000m².

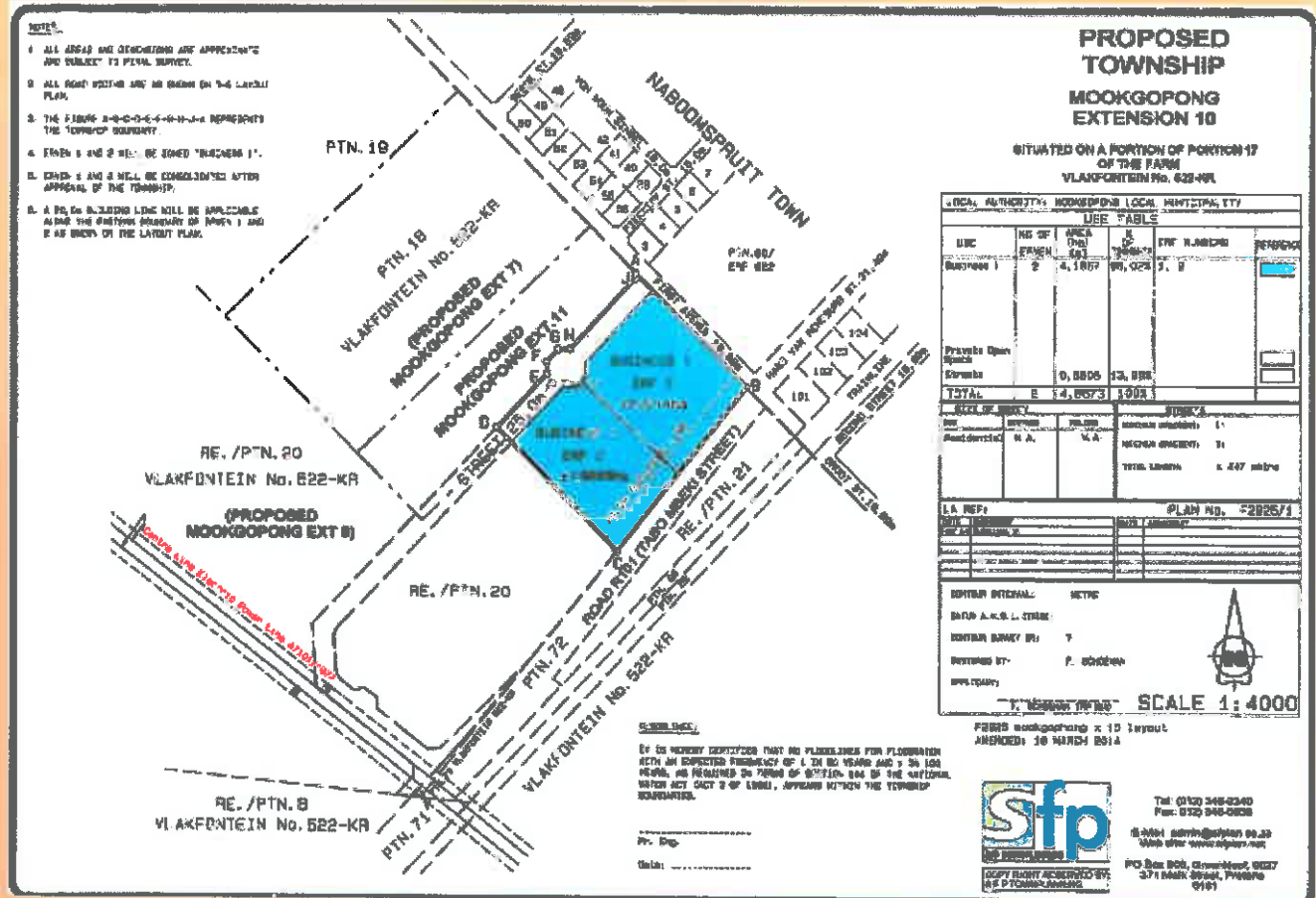


Figure C1: Proposed township

Source: SFP Town Planning

In the application form, which was submitted to the Department, it was indicated that the applicant wishes to apply for the following listed activities.

Listed activities applied for in terms of Notice 1 (R544, 18 June 2010):

Activity 9, 10, 22, 23, 37, and 38.

Date and Number of the relevant Notice:	Activity No(s) in terms of the relevant Notice	Describe each listed activity as per the project description
GN R 544	LN 1, Activity 9	The construction of facilities or-infrastructure exceeding' 1000metres in length for the bulk transportation of water,

		<p>sewage or storm water</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more,</p> <p>excluding where:</p> <p>a. such facilities or infrastructure are for bulk transportation of water, sewage or storm water or storm water drainage inside a road reserve; or</p> <p>b. where such construction will occur within urban areas but further than 32 metres from a watercourse, measured from the edge of the watercourse.</p>
<p>Reasons for inclusion</p> <p>The installation of services is essential for any development. The services for this proposed development will be supplied by the Municipality of Mookgopong.</p> <p>It was confirmed that the municipality has sufficient water supply for the proposed development. The line will run parallel with First Avenue, the north eastern site boundary of the site.</p> <p>The sewer will connect from the existing line across the site. There is an existing 160dia sewer line running alongside the north-eastern portion of First Avenue. This line is on the opposite side of the road and the invert level is higher than that of the proposed development, therefore the need of a road crossing and a pump station.</p> <p>Storm water for the new developments north-west of the site is drained into the old borrow pit by means of an open storm water channel alongside First Avenue. This channel will be upgraded and extended parallel with First Avenue to an existing four cell culvert underneath Thabo Mbeki Street towards the railway reserve. Before crossing Thabo Mbeki Street the volume storm water will be split into two, half to discharge into the culvert and the other half into the existing side drain alongside Thabo Mbeki Street. This side drain will be upgraded to a point where it crosses the R101 by means of a culvert. The existing culvert underneath Thabo Mbeki Street will be rehabilitated as well as the existing open channel between the rail road reserve and Thabo Mbeki Street.</p>		
GN R544	LN 1, Activity 10	<p>The construction of facilities or infrastructure for the transmission and distribution of electricity –</p> <p>(i) Outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts; or</p> <p>(ii) Inside urban areas or industrial complexes with a capacity of 275 kilovolts or more.</p>

Reasons for inclusion		
The proposed development will require the installation of electricity, therefore the need for this activity.		
GN R544	LN 1, Activity 22	The construction of a road, outside urban areas, (i) With a reserve wider than 13,5 meters or, (ii) Where no reserve exists where the road is wider than 8 meters, or (iii) For which an environmental authorization was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Notice 545 of 2010.
Reasons for inclusion		
It has been confirmed with the developer that this activity is triggered and a Basic Assessment process is followed for proposed development .		
GN R544	LN 1, Activity 23	The transformation of undeveloped, vacant land to: (i) Residential, retail, commercial, recreational, industrial or institutional use inside an urban area, and where the total area to be transformed is 5 hectares or more, but less than 20 hectares, or (ii) Residential, retail, commercial, industrial or institutional use outside an urban area and where the total area to transformed is bigger than 1 hectare but less than 20 hectares Except where such transformation takes place for linear activities.
Reasons for inclusion		
The study area is located just outside of an urban area and the development footprint is less than 20 hectares but more than 1 hectare. Therefore the activity is triggered and a Basic Assessment process is followed.		
GN R544	LN 1, Activity 37	The expansion of facilities or infrastructure for the bulk transportation of water, sewage or storm water where: (a) The facility or infrastructure is expanded by more than 1 000 meters in length; or (b) Where the throughput capacity of the facility or Infrastructure will be increased by 10% or more –

		<p>Excluding where such expansion:</p> <p>(i) Releases to transportation of water, sewage or storm water within a road reserve; or</p> <p>(ii) Where such expansion will occur within urban areas but further than 32 meters from a watercourse, measured from the edge of the watercourse.</p>
<p>Reasons for inclusion</p> <p>There is a need for expansion for some of the services for the proposed development, therefore this activity is triggered.</p>		
GN R544	LN 1, Activity 38	The expansion of facilities for the transmission and distribution of electricity where the expanded capacity will exceed 275 kilovolts and the development footprint will increase.
<p>Reasons for inclusion</p> <p>It has been confirmed with the developer that this activity will be triggered and therefore a Basic Assessment process will be followed.</p>		
<p>Listed activities applied for in terms of Notice 3 (R546, 18 June 2010):</p> <p>Activity 13.</p>		
Date and Number of the relevant Notice:	Activity No(s) in terms of the relevant Notice	Describe each listed activity as per the project description
GN R546	LN 3, Activity 13	(a) (i) Clearance of indigenous vegetation – all areas outside urban areas
<p>The construction of the proposed development will result in clearance of more than 5 hectares of vegetation where 75% or more of the vegetation cover constitutes indigenous vegetation.</p>		
<p>Note: The applicable activities will be confirmed in the Final BAR (after we received the required information regarding the design of the development, and specialist</p>		

reports).

2. FEASIBLE AND REASONABLE ALTERNATIVES

“alternatives”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

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

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. The determination of whether site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the Department may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Paragraphs 3 – 13 below should be completed for each alternative.

Location alternatives

Due to limited availability of open erven within the Mookgopong township boundaries, and the proposed location being situated next to the main road through town, the proposed location is regarded as the best alternative.

Alternative S1 i.e. development being applied for is thus regarded as the only development option, other than the No-Go Alternative.

3. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

List alternative sites, if applicable.

	Latitude (S):			Longitude (E):		
Alternative:						
Alternative S1 ² (preferred or only site alternative)	24°	31'	35.50"	28°	42'	21.76"
Alternative S2 (if any)	°	'	"	°	'	"
Alternative S3 (if any)	°	'	"	°	'	"

In the case of linear activities:

Alternative:	Latitude (S):			Longitude (E):		
Alternative S1 (preferred or only route alternative)						
<ul style="list-style-type: none"> Starting point of the activity Middle/Additional point of the activity End point of the activity 						
Alternative S2 (if any)						
<ul style="list-style-type: none"> Starting point of the activity Middle/Additional point of the activity End point of the activity 						
Alternative S3 (if any)						
<ul style="list-style-type: none"> Starting point of the activity Middle/Additional point of the activity End point of the activity 						

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

4. PHYSICAL SIZE OF THE ACTIVITY

² "Alternative S.." refer to site alternatives.

Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:

Alternative A1³ (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

or,

Size of the activity:

8,000 m ²
m ²
m ²

³ "Alternative A.." refer to activity, process, technology or other alternatives.

for linear activities:

Length of the activity:

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

	m
	m
	m

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

Size of the site/servitude:

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

	m ²
	m ²
	m ²

5. SITE ACCESS

Does ready access to the site exist?

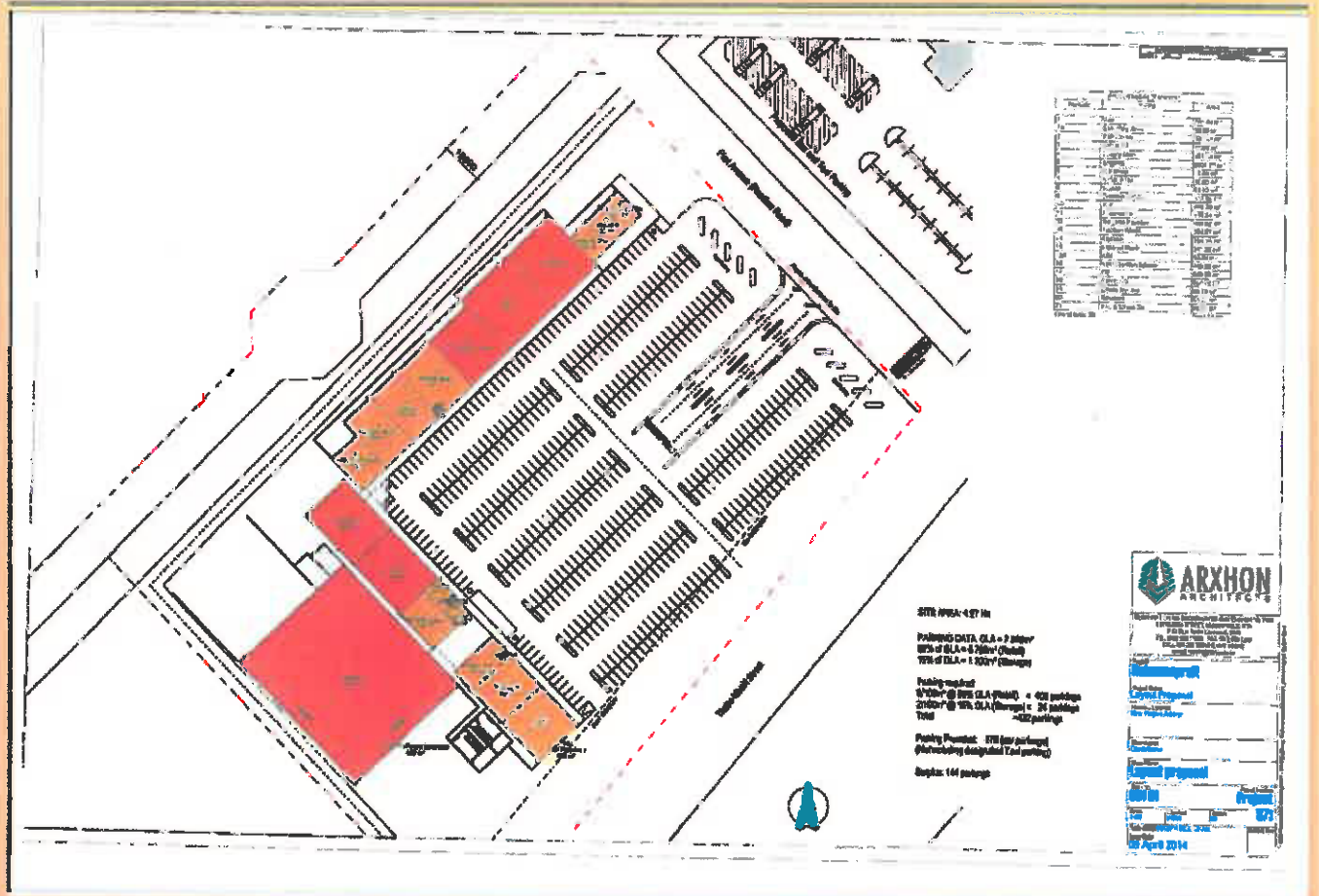
YES X	NO
m	

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

Describe the type of access road planned:

Access to the development site exists via 1st Avenue as well as the R101.

During the operational phase of the project, the Shopping centre will be accessed via a newly constructed road intersecting with 1st Avenue.



Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

6. SITE OR ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as **Appendix A** to this document.

The site or route plans must indicate the following:

- 6.1 the scale of the plan which must be at least a scale of 1:500;
- 6.2 the property boundaries and numbers of all the properties within 50 metres of the site;
- 6.3 the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 the exact position of each element of the application as well as any other structures on the site;
- 6.5 the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 6.6 all trees and shrubs taller than 1.8 metres;
- 6.7 walls and fencing including details of the height and construction material;
- 6.8 servitudes indicating the purpose of the servitude;
- 6.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
 - rivers;
 - the 1:100 year flood line (where available or where it is required by Department of Water Affairs);
 - ridges;
 - cultural and historical features;
 - areas with indigenous vegetation (even if it is degraded or invested with alien species);
- 6.10 for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 6.11 the positions from where photographs of the site were taken.

7. SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under **Appendix B** to this form. It must be supplemented with additional photographs of relevant features on the site, if applicable.

8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 as **Appendix C** for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

9. ACTIVITY MOTIVATION

9(a) Socio-economic value of the activity

What is the expected capital value of the activity on completion?

What is the expected yearly income that will be generated by or as a result of the activity?

Will the activity contribute to service infrastructure?

Is the activity a public amenity?

How many new employment opportunities will be created in the development phase of the activity?

What is the expected value of the employment opportunities during the development phase?

What percentage of this will accrue to previously disadvantaged individuals?

How many permanent new employment opportunities will be created during the operational phase of the activity?

What is the expected current value of the employment opportunities during the first 10 years?

What percentage of this will accrue to previously disadvantaged individuals?

R 205 million	
Not yet known	
YES X	NO
YES X	NO
Not yet known	
Not yet known	
Not yet known n	
902	
Not yet known	
Not yet known	

9(b) Need and desirability of the activity

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

Mookgopong Square Ontwikkelings (Pty) Ltd identified the need for a shopping centre in Mookgopong which could serve as a one-stop centre catering for all the basic human needs, whilst also contributing to the priorities of the Mookgopong Integrated Development Plan 2012-2017 (2013/2014 Review) in terms of speeding up growth and transforming the economy, build social and economic infrastructure, and strengthening skills and human resource base. Unemployment within Mookgopong Local Municipality according to the 2011 census was 29%. The proposed development will create job opportunities, contribute to the GGP, and also provide the Local Municipality with additional erven to increase their tax base.

Current ribbon-development (linear) along the main road through town – R101 – as well as limited availability of sufficient vacant business erven, does not allow for a

shopping centre to be established within already built-up areas of Mookgopong. Mookgopong also experiences traffic flow problems in the CBD due to insufficient parking space. The proposed Shopping centre will cater for ample parking space, thus alleviating the existing problem. The location proposed for the Shopping centre on the southern entrance of town is ideal in terms of accessibility and visibility to both motorist as well as pedestrians. The proposed location is situated 1km from the Mookgopong Township and can thus also be reached by foot. The Shopping centre will create a good first-impression of Mookgopong to tourist travelling through town on the R101, and is accessible via the R101 as well as the R519 when entering the town from the north-west. The Shopping centre entrance will be situated in 1st Avenue.

Mookgopong has also been identified as a Provincial Growth Point in the Spatial Development Framework (2013/2014 Review).

The lack of essential bulk services has been identified as a challenge in terms of the Mookgopong SDF. The proposed development will require a bulk services contribution to be paid to the Mookgopong Local Municipality, which could be utilized to develop bulk service infrastructure within Mookgopong. Commercial development has been identified as economic opportunity in terms of the Mookgopong SDF.

NEED:			
i.	Was the relevant municipality involved in the application?	YES X	NO
ii.	Does the proposed land use fall within the municipal Integrated Development Plan?	YES X	NO
iii.	If the answer to questions 1 and / or 2 was NO, please provide further motivation / explanation:		

DESIRABILITY:			
i.	Does the proposed land use / development fit the surrounding area?	YES X	NO
ii.	Does the proposed land use / development conform to the relevant structure plans, Spatial development Framework, Land Use Management Scheme, and planning visions for the area?	YES X	NO

iii.	Will the benefits of the proposed land use / development outweigh the negative impacts of it?	YES X	NO
iv.	If the answer to any of the questions 1-3 was NO, please provide further motivation / explanation:		
v.	Will the proposed land use / development impact on the sense of place?	YES	NO X
vi.	Will the proposed land use / development set a precedent?	YES	NO X
vii.	Will any person's rights be affected by the proposed land use / development?	YES	NO X
viii.	Will the proposed land use / development compromise the "urban edge"?	YES	NO X
ix.	If the answer to any of the question 5-8 was YES, please provide further motivation / explanation.		

BENEFITS:			
i.	Will the land use / development have any benefits for society in general?	YES	NO X
ii.	Explain: The positive impact will be local and regional only.		
iii.	Will the land use / development have any benefits for the local communities where it will be located?	YES X	NO
iv.	Explain: <ul style="list-style-type: none"> • The shopping centre will cater for basic human needs in terms of food, medical facilities, and entertainment. • The proposed location of a shopping centre will benefit low income families in terms of accessibility to services, due to the close proximity of the development to Mookgopong Township. • The proposed developments location in relation to the Mookgopong Township will have the benefit of providing job opportunities for residents who do not own their own transport. 		

10. APPLICABLE LEGISLATION, POLICIES, AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline:	Administering authority:	Date:
<p>1. National Environmental Management Act, 1998 (Act No.107 of 1998) Environmental Impact Assessment (EIA) Regulations and associated Listing Notices</p> <p>The Environmental Impact Assessment (EIA) process followed is in compliance with the National Environmental Management Act: NEMA, 1998 (Act No. 107) of 1998), as amended and the Environmental Impact Assessment Regulations of 2010 (Government Notice No's R544, 545 & 546 of 2010). The proposed development involves 'listed activities', as defined by the NEMA, 1998. Listed activities are activities, which may potentially have detrimental impacts on the environment and therefore require environmental authorisation from the relevant authority, before such activities are implemented.</p>	<p>National Department of Environmental Affairs (DEA) and Provinces</p>	<p>1998 2010</p>
<p>Implications for proposed development: Significant</p> <p>The application for the proposed development relates to activities listed under Notice No. R544 & R546 of the EIA Regulations 2010, therefore a Basic Assessment Report is being submitted to the Limpopo Department of Economic Development, Environment and Tourism for consideration.</p>		
<p>2. National Environmental Management: Air Quality Act, 2004 (Act No.39 of 2004)</p> <p>The Air Quality Act regulates air quality in order to protect the environment. It provides reasonable measures for the prevention of pollution and ecological degradation and for securing ecological sustainable development while promoting justification economic and social</p>	<p>DEA, Provinces and Municipalities</p>	<p>2004</p>

development.		
<p>Implications for proposed development: Not significant</p> <p>During the construction phase of the proposed development clearing will be required where the proposed development will be constructed. The expected impact of dust pollution on the environment and community is expected to be very low due to the main wind direction being easterly i.e. away from town which is situated north-east of the development site, and due to no wind occurring for almost half of the year. The potential impact has however been addressed in the draft EMP.</p>		
<p>3. National Environmental Management: Waste Act, 2008 (Act 59 of 2008)</p> <p>The purpose of the Act is to regulate waste management in order to protect the health and the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development; to provide for institutional arrangements and planning matters; national norms and standards for regulating the management of waste by all spheres of government; to provide for specific waste management measures; to provide for the licensing and control of waste management activities; to provide for the remediation of contaminated land; to provide for the national waste information system; to provide for compliance and enforcement; and to provide for matters connected therewith.</p>	<p>DEA and Provinces</p>	<p>2008</p>
<p>Implications for proposed development: Significant</p> <p>The construction and operation of the proposed development are not subject to any activity as listed in Category A, B or C of NEM: WA Listed Activities, 2013.</p> <p>However general waste will be generated during the construction as well as operational phase of the proposed development, and the potential impact has been addressed in the draft EMP.</p>		

<p>The developer will have to enter into a service agreement with the local authority for domestic waste removal during the operational phase of the development.</p>		
<p>4. National Environmental Management: Protected Areas Act, 2003 (Act No. 57 of 2003)</p> <p>The Act provides for the protection, conservation, and management of ecologically viable areas representative of South Africa's biological diversity and its natural landscapes and seascapes, for the management of those areas in accordance to national norms and standards, as well as for the intergovernmental co-operation and public consultation in matters concerning protected areas. Protected areas are to be conserved for their biodiversity and ecological integrity.</p>	<p>DEA</p>	<p>2003</p>
<p>Implications for proposed development: Not significant</p> <p>The proposed development site does not constitute a protected area in terms of the Act.</p>		
<p>5. National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004)</p> <p>The Act provides for the management and conservation of South Africa's biodiversity within the framework of the National Environmental Management Act 10 of 2004; the protection of species and ecosystems that warrant national protection; the sustainable use of indigenous biological resources; the fair and equitable sharing of benefits arising from bio-prospecting involving indigenous biological resources; the establishment and functions of a South African National Biodiversity Institute; and for matters connected therewith.</p>	<p>DEA and Provinces</p>	<p>2004</p>

Implications for proposed development: Significant

Of the 49 indigenous mammal species recorded on site during a fauna survey conducted in 2006, five are Red data mammal species.

No Red or orange listed flora species were recorded during a vegetation survey conducted in 2006. Springbokvlakte Thornveld is regarded as a threatened ecosystem.

6. The National Water Act, 1998 (Act No.36 of 1998)

The purpose of the Act is to ensure that the nation's water resources are protected, used, developed, conserved, managed and controlled in ways that take into account, amongst other factors, the following Meeting the basic human needs of present and future generations;

- Promoting equitable access to water;
- Promoting the efficient, sustainable and beneficial use of water in the public interest;
- Reducing and preventing pollution and degradation of water resources;
- Facilitating social and economic development; and
- Providing for the growing demand for water use.

**National
Department of
Water Affairs
and Provinces**

1998

Implications for proposed development: Significant

The proposed development is not situated within a 1:100 flood line, but the developer intends on sinking two boreholes on site in order to augment Municipal water supply. If water to be abstracted will exceed 1m³/day, a water use license has to be submitted to the Department of Water Affairs as the volume of water abstracted will exceed that stipulated (75m³ per hectare per annum) for the quaternary drainage region A61D and therefore is not covered by the General Authorization.

It is expected that a Water Use Licence process will be followed due to the borehole abstraction and a sewerage treatment package plant.

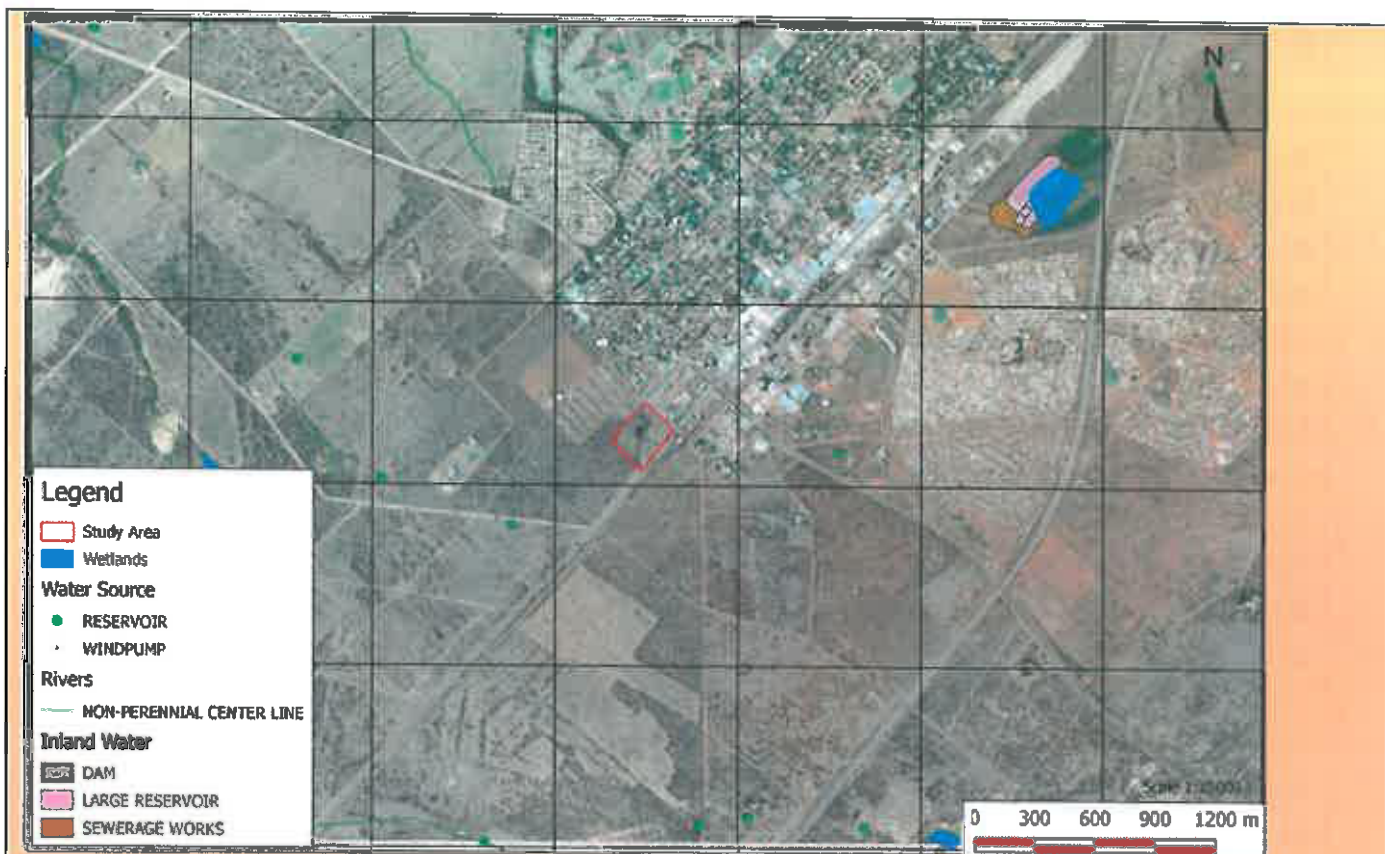


Figure A1: Hydrology map

7. The Water Services Act, 1997 (Act No. 108 of 1997)

The provide for the rights to access basic water supply and basic sanitation; to provide for setting of national standards and of norms and standards for tariffs; to provide for water services development plans; to provide a regulatory framework for water services institutions and water services intermediaries; etc.

Mookgopong Local Municipality

1997

Implications for proposed development: Significant

Mookgopong Local Municipal as the water services authority confirmed that it has sufficient spare water capacity for the proposed development. The line will run parallel with First Avenue, the north eastern site boundary of the site. The developer will have to enter into a bulk services agreement with the Local Municipality.

<p>8. The National Heritage Resources Act, 1999 (Act 25 of 1999) (NHRA)</p> <p>The NHRA requires Heritage Resources Impact Assessments for various categories of development stipulated in Section 38 of the Act. It also provides for the grading of heritage resources and the implementation of a three-tier level of responsibilities and functions for heritage resources to be undertaken by the national and Provincial Authorities, depending on the grade of the heritage resource. The Act defines cultural significance, archaeological and paleontological sites and materials (section 35), historical sites and structures (section 34), and graves and burial sites (section 36) that fall under its jurisdiction. Archaeological sites and material are generally those resources older than a hundred years, including gravestones and grave dressing. Procedures for managing graves and burial grounds are set out in Section 36 of the NHRA. Graves older than 100 years are legislated as archaeological sites and must be dealt with accordingly.</p> <p>Section 38 of the NHRA makes provision for application by developers for permits before any heritage resource may be damaged or destroyed.</p>	<p>National Department of Arts and Culture, and Provinces</p>	<p>1999</p>
<p>Implications for proposed development: Not significant</p> <p>Both SAHRA and LIHRA were notified of the proposed development. LIHRA requested additional information pertaining to the project.</p> <p>No obvious features, sites, or artefacts of cultural significance were identified within the</p>		

proposed land development area.

If any remains/cultural/historical finds are exposed or uncovered during the construction phase, it should immediately be reported to the Limpopo Heritage Resources Agency (LIHRA). Burial remains should not be disturbed or removed until inspected by an archaeologist. Refer to draft EMP.

9. The Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983)

The Act provides for the control over the utilisation of Natural Agricultural resources of South Africa, in order to promote the conservation of soil, water sources and vegetation, as well as combating of weeds and invader plants and for matters connecting therewith.

National Department of Agriculture, Forestry and Fisheries, and Provinces

1983

Implications for proposed development: Significant

According to the South African Agricultural Potential Atlas, the study area comprises of arable agricultural land.

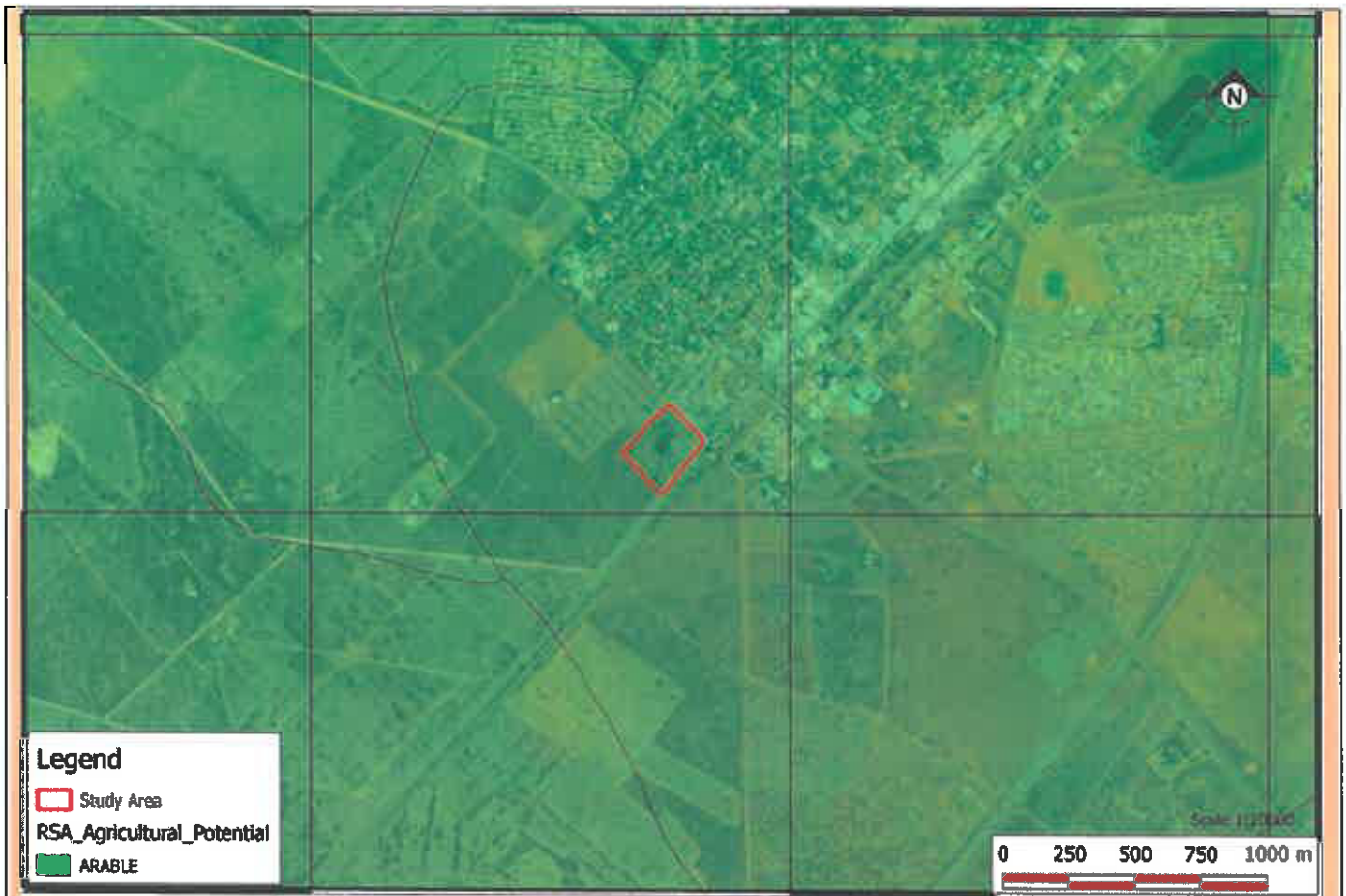


Figure A2: Agricultural potential map

<p>10. National Veldt and Forest Fire Act, 1998 (Act No. 101 of 1998)</p> <p>The purpose of this Act is to prevent and combat veldt, forest, and mountain fires throughout the Republic. The Act provides for a variety of institutions, methods, and practices for achieving the prevention of fires.</p>	<p>National Department of Agriculture, Forestry and Fisheries, and Provinces</p>	<p>1998</p>
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Implications for proposed development: Significant

Construction workers might smoke or make fire on site which poses a fire risk to surrounding small holdings as well as residents of town due to the development sites in close proximity to Mookgopong.

<p>11. Restitution of Land Rights Act, 1994 (Act No. 22 of 1994) and Restitution of Land Rights Amendment Act, 2014 (Act No. 15 of 2014)</p> <p>The Act provides for the restitution of rights in land to persons or communities dispossessed of such rights after 19 June 1913 as a result of past racially discriminatory laws or practices; to establish a Commission on Restitution of Land Rights and a Land Claims Court; and to provide for matters connected therewith.</p>	<p>National Department of Land Affairs, and Provinces</p>	<p>1994 2014</p>
<p>Implications for proposed development: Significant</p> <p>The developer has informed the Limpopo land claims commissioner of the intended development.</p>		
<p>12. National Road Traffic Act, 1996 (Act No. 93 of 1996)</p> <p>This Act provides for all road traffic matters, which shall apply uniformly throughout the Republic and for matters connected therewith.</p>	<p>National Department of Land Affairs</p>	<p>1994 2014</p>
<p>Implications for proposed development: Significant</p> <p>Considering the location of the proposed development site adjacent to the Provincial R101 it is foreseen that construction activities might have an impact on the traffic flow. Access to the proposed Shopping centre will be gained via 1st Avenue. The Developer has to cater for safe access to and from the proposed Shopping centre.</p> <p>The Roads Agency Limpopo has been informed of the proposed development and a Traffic Impact Study has been conducted.</p>		

<p>13. The Deeds Registries Act, 47 of 1937</p> <p>The Act was created to consolidate and amend the laws in force in the Republic relating to the Registration of deeds. The act caters for the registration of servitudes.</p>	<p>National & Provincial</p>	<p>1 September 1937</p>
<p>Implications for proposed development: Significant</p> <p>Considering the proposed bulk services (water/sewerage/electricity) will transect properties not belonging to the applicant or the Municipality, servitudes might have to be registered for the construction of the bulk services.</p>		
<p>14. Local Government Municipal Systems Act, 2000 (Act No. 32 of 2000)</p> <p>This Act clearly establishes the Integrated Development Plan and Integrated Spatial Development Framework as guidelines that inform development and processes in this regard.</p>	<p>Local Government</p>	<p>2000</p>
<p>Implications for proposed development: Significant</p> <p>The proposed development is in line with the Mookgopong Integrated Development Plan in terms of speeding up growth and transforming the economy, building social and economic infrastructure, and strengthening skills and human resource base.</p> <p>The proposed development is also in line with the Mookgopong Spatial Development Framework in terms of addressing the lack of bulk services and contributing to commercial development.</p>		
<p>15. The Townplanning & Townships Ordinance, 1986 (Act No. 15 of 1986)</p> <p>The purpose of the ordinance is to consolidate and amend laws relating to town-planning and the establishment of</p>	<p>Local Government</p>	<p>2000</p>

townships.		
<p>Implications for proposed development: Significant</p> <p>The proposed development triggers a Township establishment application which was submitted to Mookgopong Local Municipality on 8 September 2014.</p>		
<p>16. Limpopo Conservation Plan Version 2</p> <p>The purpose of the Limpopo Conservation Plan version 2 is to develop the spatial component of a bioregional plan (i.e. map of Critical Biodiversity Areas (CBA) and associated land-use guidelines.</p>	LDEDET	
<p>Implications for proposed development: Significant</p> <p>According to the Limpopo Conservation Plan Critical Biodiversity Areas (CBAs), the proposed development occurs in an area classified as Ecological Support Area 1 i.e. natural, near-natural or degraded areas supporting CBAs by maintaining ecological processes of which the objective is to maintain ecosystem functionality and connectivity allowing for limited loss of biodiversity pattern.</p>		

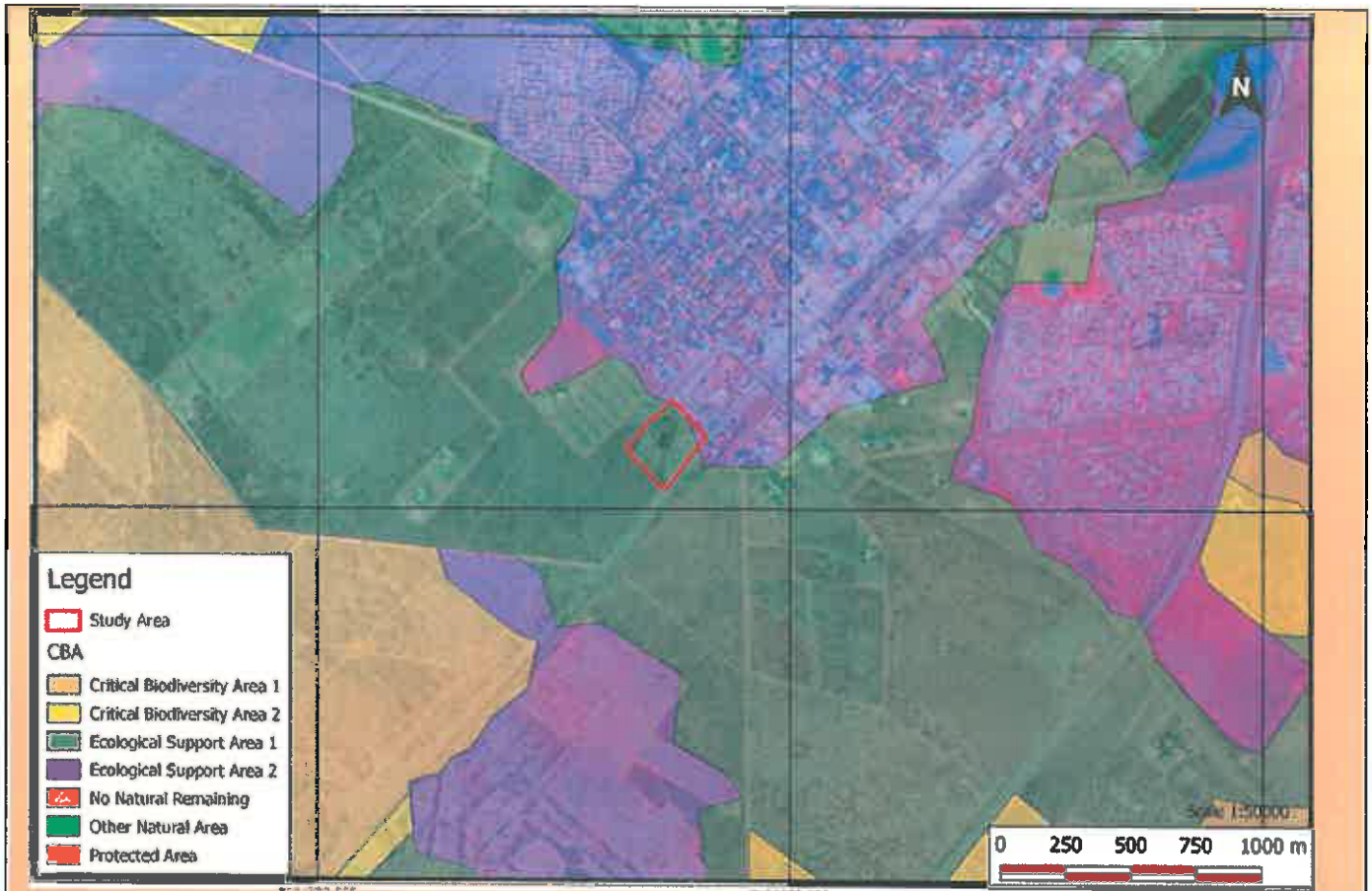


Figure A3: Critical Biodiversity Areas

<p>17. Mookgopong Water Supply By-law</p> <p>The purpose of the by-law is to regulate the provision of water supply by the Municipality to consumers.</p>	<p>Mookgopong Local Municipality</p>	<p>May 2006</p>
<p>Implications for proposed development: Significant</p> <p>The developer must submit an application for water supply to the Mookgopong Local Municipality, and enter into a consumer agreement with the Municipal Council.</p>		
<p>18. Mookgopong Drainage By-law</p> <p>The purpose of the by-law is to regulate drainage design, installation, construction, and maintenance in order to ensure</p>	<p>Mookgopong Local Municipality</p>	<p>May 2006</p>

efficient operation to minimise pollution and health risks.		
<p>Implications for proposed development: Significant</p> <p>The developer must submit an application for installing drainage works for the proposed development to the Local Municipality and will be responsible for the installation thereof in accordance with this by-law.</p>		
<p>19. Mookgopong Electrical Supply By-law</p> <p>The purpose of the by-law is to regulate the installation and maintenance of electrical networks in a manner that will ensure an efficient system is in operation which complies with high safety standards, and provides for procedures, methods, and practices to regulate the supply of electricity.</p>	<p>Mookgopong Local Municipality</p>	<p>May 2006</p>
<p>Implications for proposed development: Significant</p> <p>The developer has to enter into a written service agreement with the Local Municipality for electrical supply.</p>		
<p>20. Occupational Health & Safety Act, 85 of 1993</p> <p>The Act was created to provide for the health and safety of persons at work and for the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health and safety; and to</p>	<p>Provincial Department of Labour</p>	<p>1993</p>

provide for matters connected therewith.		
Implications for proposed development: Significant		
Construction activities are to be carried out in accordance with this law and applicable regulations.		
21. National Building Regulations and Building Standards Act, 103 of 1977	Mookgopong Local Municipality	1977
The Act was created to provide for the promotion of uniformity in the law relating to the erection of buildings in the areas of jurisdiction of local authorities; for the prescribing of building standards; and for matters connected therewith.		
Implications for proposed development: Significant		
Building plans of the proposed Shopping centre are to be submitted to the Mookgopong Local Municipality for approval.		

11. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

11(a) Solid waste management

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

YES X	NO
Not available	

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

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

During the construction phase the disposal of solid waste will be the responsibility of the contractor. An area on the application site will be demarcated for the storage of solid waste on site. General waste receptacles will be placed at all work areas and cleaned out at least weekly or more if the need determines. General waste will be stored temporarily at the designated waste storage area. This area must be situated away from natural or temporary drainage lines, and not pose visual

disturbance to the surrounding residents. The demarcated area must be easily accessible for dumping trucks to collect waste. The waste will be carted to Mookgopong registered Class GSB landfill site, after having obtained approval from the local municipality to do so.

During the operational phase of the project, domestic waste will be removed by the Mookgopong Local Municipality to the Mookgopong registered Class GSB landfill site.

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

All construction solid waste will be disposed of at the Mookgopong registered Class GSB landfill site, following written permission obtained from the Local Municipality. No solid waste will be dumped on surrounding open areas or adjacent properties.

Will the activity produce solid waste during its operational phase?

YES X	NO

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

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

Domestic solid waste generated during the operational phase of the project will be collected by the Mookgopong Local Municipality and disposed of at the Mookgopong registered Class GSB landfill site, following a written service agreement between the developer and the Municipality.

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

NA

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the department to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

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

If yes, inform the department and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility?

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

If yes, then the applicant should consult with the Department to determine whether it is necessary to change to an application for scoping and EIA.

11(b) Liquid effluent

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

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

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

m³

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

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

If yes, the applicant should consult with the Department to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?

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

If yes, provide the particulars of the facility:

Facility name:	Mookgopong Sewage Treatment Works		
Contact person:			
Postal address:	Private Bag X340, Naboomspruit		
Postal code:	0560		
Telephone:	014 743 6600	Cell:	
E-mail:	admin@mookgopong.gov.za	Fax:	014 743 2434

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

A pre-digestion three-chamber sewage treatment system will be constructed on the development site for sewage to be treated to grey water. Grey water will then be pumped to an elevated chamber from where the sewage will gravitate into the existing sewer line situated in 1st Avenue.

Due to pre-digestion the development will not impose the full load of raw sewage on the Municipal Sewage Treatment Works.

11(c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

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

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

YES	NO
-----	----

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

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

The proposed development will not generate any emissions. Only limited dust generation is expected due to clearing of areas for construction. This potential impact has been addressed in the draft EMP.

11(d) Generation of noise

Will the activity generate noise?

YES	NO X
YES	NO

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

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

If no, describe the noise in terms of type and level:

During the construction phase, noise generation due to construction activities might be a factor to surrounding landowners, however potential noise pollution will be mitigated accordingly. Refer to draft EMP.

12. WATER USE

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

municipal	water board	groundwater	river, stream, dam or lake	other	the activity will not use water
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

930m³ (31m³/day)	
YES X	NO

Does the activity require a water use permit from the Department of Water Affairs?

If yes, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this application if it has been submitted.

The developer intends on sinking two boreholes to supplement Municipal water supply. If more than 1m³ of water will be abstracted per day, a water use license has to be submitted to the Department of Water Affairs as the volume of water abstracted will exceed that stipulated (75m³ per hectare per annum) for the quaternary drainage region A61D, and therefore is not covered by the General Authorization.

Potable water supply

The Mookgopong Municipality confirmed that sufficient water is available from a 160mm pipe running parallel with First Avenue to the north-east of the site boundary. Interruption of water supply might occur due to old infrastructure.

The developer intends in sinking two boreholes to supplement Municipal water supply, subject to conducting a Geo-hydrological study and obtaining a Water Use License (WUL).

Fire reticulation

A 110mm class 16 uPVC pipe has to be installed for the fire reticulation system.

On site storage tanks will be installed for firefighting purposes, but will also serve as backup in case of interruption of potable water supply. The capacity of the storage tanks will be determined by a fire specialist.

Sanitation

35kl of sewage will be generated from the proposed development per day. There is an existing 160mm sewerage line running along the north-eastern portion of 1st Avenue on the opposite side of the road i.e. eastern side. The invert level is higher than that of the proposed development and therefore a pump station and a road crossing will be required as part of the development.

A pre-digestion three-chamber will be constructed on the development site for sewage to be treated to grey water. Grey water will then be pumped to an elevated chamber from where the sewage will gravitate into the existing sewer line situated in 1st Avenue. The existing Municipal sewer line serves mainly residential areas. As the peak times of use of the proposed Shopping centre (office hours) do not coincide with the peak times of residential areas (after hours), the capacity of the existing sewer line will be adequate to cater for the development. Due to pre-digestion the development will not impose the full load of raw sewage on the Municipal Sewage Treatment Works.

Stormwater

A large portion of the development site is occupied by a storm water retention pond, previously serving as borrow pit. Storm water for new developments situated to the north west of the site currently drain into this pond via an open channel running along 1st Avenue. This channel will be upgraded and extended southwards parallel with 1st Avenue to an existing four cell culvert underneath Thabo Mbeki Street (R101) towards the railway reserve. Prior to the storm water reaching Thabo Mbeki Street the volume of storm water will be split into two, half to discharge into the culvert and the remaining half into the existing side drain along Thabo Mbeki Street. This side drain will be upgraded to a point where it crosses

Thabo Mbeki Street by means of a culvert.

The retention pond will be drained and filled to form part of the proposed development.

Storm water from the site will drain by means of sheet flow towards the existing side drain running parallel to the R101.

13. ENERGY EFFICIENCY

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

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

SECTION B: SITE/AREA/PROPERTY DESCRIPTION

Important notes:

1. For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section C and indicate the area, which is covered by each copy No. on the Site Plan.

Section C Copy No.
(e.g. A):

2. Paragraphs 1 - 6 below must be completed for each alternative.

3. Has a specialist been consulted to assist with the completion of this section?

YES	NO
	X

If YES, please complete the form entitled "Details of specialist and declaration of interest" for each specialist thus appointed:

All specialist reports must be contained in **Appendix D**.

Property description/physical address:

Mookgopong X10, R101, Mookgopong, Limpopo Province

(Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.

Part of Portion 17 of the farm Vlakfontein 522 KR

In instances where there is more than one town or district involved, please attach a list of towns or districts to this application.

Current land-use zoning:

Special

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

Is a change of land-use or a consent use application required?

YES	NO
X	
YES	NO
X	

Must a building plan be submitted to the local authority?

YES	NO
X	

Locality map: An A3 locality map must be attached to the back of this document, as **Appendix A**. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.) The map must indicate the following:

- an indication of the project site position as well as the positions of the alternative sites, if any;
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow;
- a legend; and
- locality GPS co-ordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection)

The proposed development is situated at the southern entrance to Mookgopong, north of the R101 in the Mookgopong Local Municipality, within the Waterberg District Municipality. The R101 (Thabo Mbeki Drive) connects Mookgopong to Modimole (Nylstroom) in the south and to Mokopane (Potgietersrus) and Polokwane in the north. Mookgopong is easily accessible from the N1 via off-ramps leading to town.

The proposed development is situated within the Mookgopong Township boundaries, on the western corner. The development is bordered by the R101 to the south and is surrounded by approved but not yet developed Mookgopong Extension 7 to the north, and Mookgopong Extension 8 to the west.

An application for Township Establishment to be known as Mookgopong X10, in terms of The Townplanning and Townships Ordinance of 1986, was submitted to the Mookgopong Local Municipality on 8 September 2014.

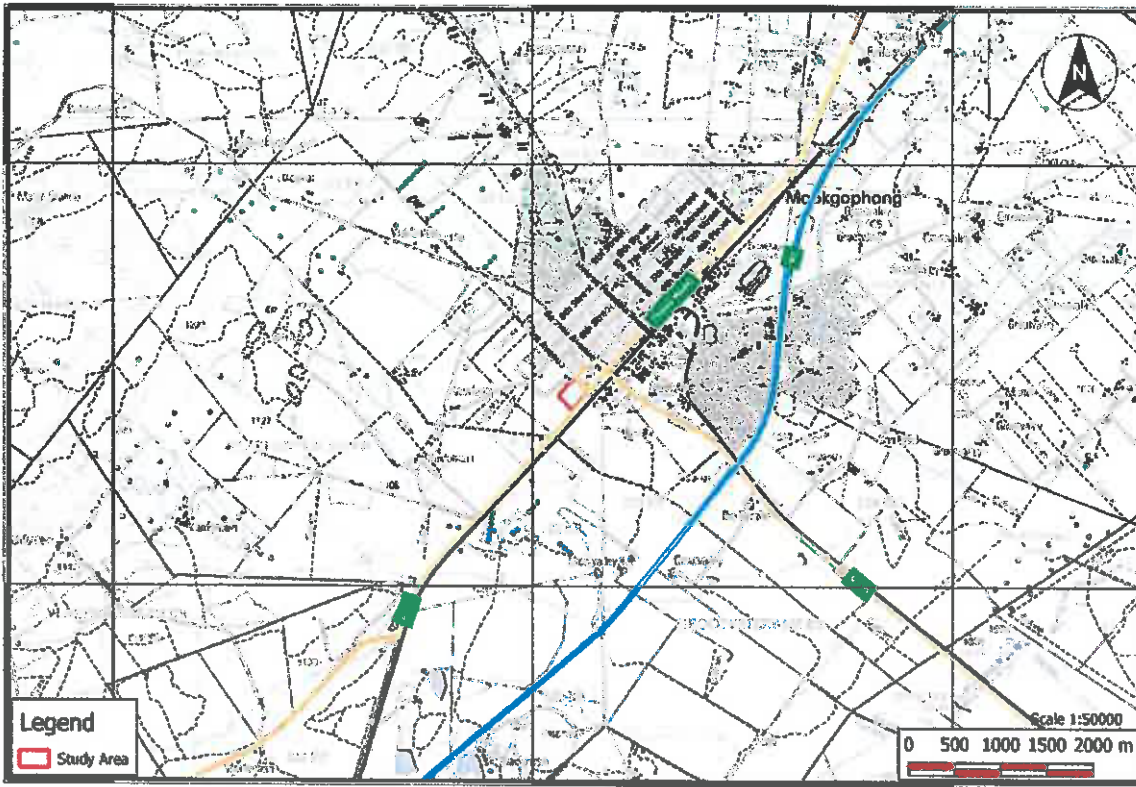


Figure A4: Locality map



Figure A5: Aerial map

1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1:

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
-------------	-------------	-------------	-------------	--------------	-------------	------------------

Alternative S2 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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Alternative S3 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site:

2.1 Ridgeline		2.6 Plain	X
2.2 Plateau		2.7 Undulating plain / low hills	X
2.3 Side slope of hill/mountain		2.8 Dune	
2.4 Closed valley		2.9 Seafront	
2.5 Open valley			

The site has a gentle slope of 1.5 from north to south.

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

According to the 1:250 000 scale geological map (2428 Nylstroom) the site is underlain by volcanic rock or sandstone of the Lethaba Formation of the Karoo Supergroup. This was confirmed by residual sandstone in all of the test pits excavated on site. Chemical weathering is the main form of weathering. No indication of the presence of soluble rock (dolomite) was found during the desktop Geological study.

Shallow refusal (< 1.5m) did not occur in any of the test pits excavated and there was no indication of erodible soils. Groundwater seepage was not encountered in any of the test pits excavated at the site.

The site can be divided into two zones:

Zone C1: Moderate compressible soil with reinforced strip foundations on compacted foundation excavations;

Zone P: Retention dam to be reclaimed and filled in layers with approved material and compacted to specified densities.

Is the site(s) located on any of the following (tick the appropriate boxes)?

	Alternative S1:		Alternative S2 (if any):		Alternative S3 (if any):	
Shallow water table (less than 1.5m deep)	YES	NO X	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO X	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO X	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO X	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO X	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO X	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO X	YES	NO	YES	NO
An area sensitive to erosion	YES	NO X	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. (Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted).

4. GROUNDCOVER

Indicate the types of groundcover present on the site:

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld - good condition ^E	Natural	Natural veld with heavy	veld with alien	Veld dominated by	Gardens
--	----------------	-------------------------	-----------------	-------------------	---------

	veld with scattered aliens^E	infestation ^E	alien species ^E	
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an "E" is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise.

The proposed development occurs in the Bushveld Region within a Savanna Biome and consists of Springbokvlakte Thornveld.

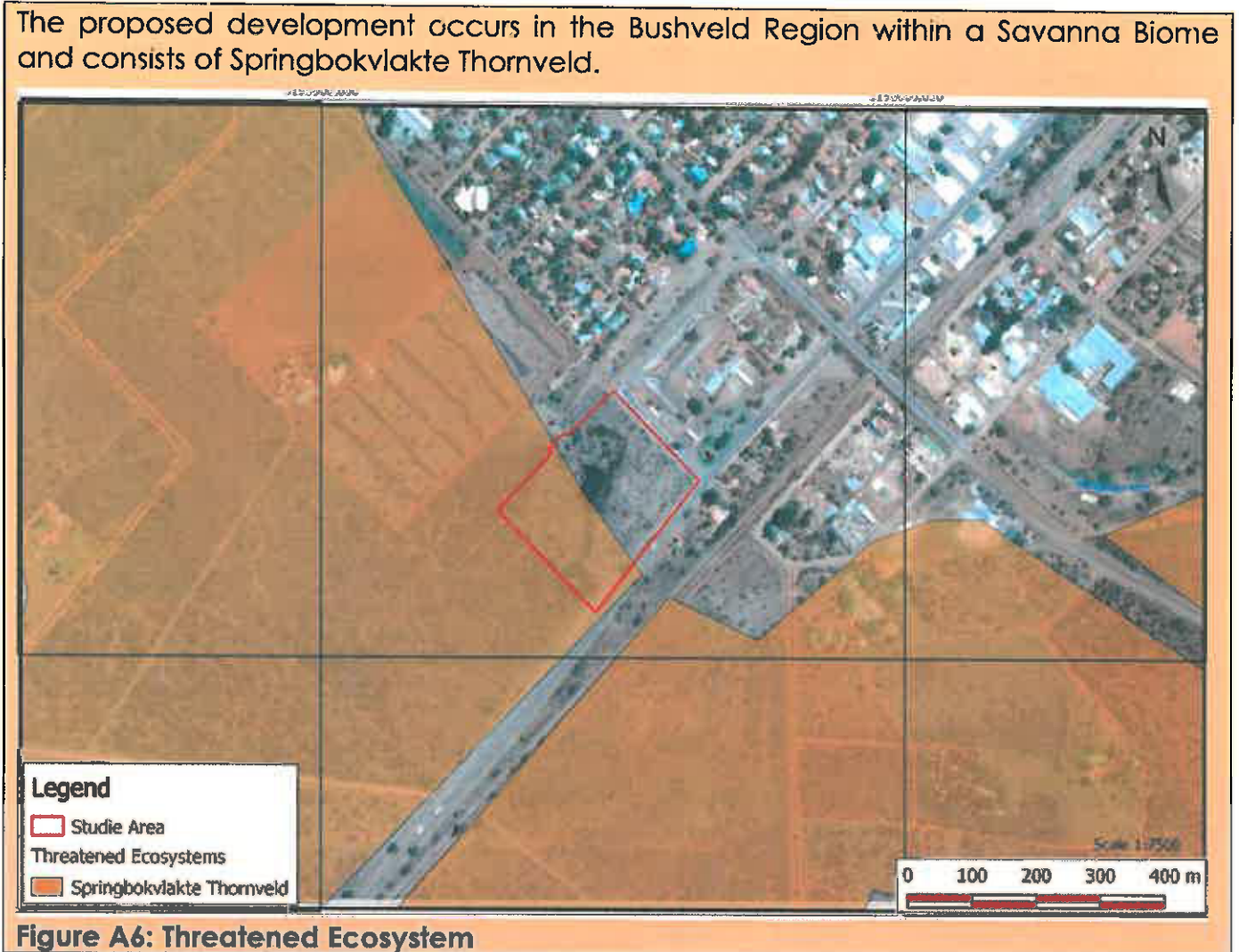


Figure A6: Threatened Ecosystem

5. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that does currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

5.1 Natural area	X	5.22 School	
5.2 Low density residential		5.23 Tertiary education facility	
5.3 Medium density residential		5.24 Church	
5.4 High density residential		5.25 Old age home	
5.5 Medium industrial ^{AN}		5.26 Museum	
5.6 Office/consulting room		5.27 Historical building	
5.7 Military or police base/station/compound		5.28 Protected Area	
5.8 Spoil heap or slimes dam ^A		5.29 Sewage treatment plant ^A	
5.9 Light industrial		5.30 Train station or shunting yard ^N	
5.10 Heavy industrial ^{AN}		5.31 Railway line ^N	X
5.11 Power station		5.32 Major road (4 lanes or more)	X
5.12 Sport facilities		5.33 Airport ^N	
5.13 Golf course		5.34 Harbour	
5.14 Polo fields		5.35 Quarry, sand or borrow pit	
5.15 Filling station ^H		5.36 Hospital/medical centre	
5.16 Landfill or waste treatment site	X	5.37 River, stream or wetland	
5.17 Plantation		5.38 Nature conservation area	
5.18 Agriculture	X	5.39 Mountain, koppie or ridge	
5.19 Archaeological site		5.40 Graveyard	
5.20 Quarry, sand or borrow pit	X	5.41 River, stream or wetland	
5.21 Dam or Reservoir	X	5.42 Other land uses (describe)	X
		Power line	

If any of the boxes marked with an "N" are ticked, how will this impact / be impacted upon by the proposed activity?

A railway line and reserve is situated 75m south of the proposed development and runs parallel to the R101. Although currently in use, it is not known what the frequency of rail transport entails. Considering the proposed development is for a Shopping Centre, it is not foreseen that the railway line will have a negative effect in terms of noise or aesthetics on the proposed development. It is also not foreseen that the Shopping centre will have a negative effect on the railway line.

If any of the boxes marked with an "An" are ticked, how will this impact / be impacted upon by the proposed activity?

If YES, specify and explain:	
If NO, specify:	

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity.

If YES, specify and explain:	
If NO, specify:	

6. CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site?

YES	NO X
Uncertain	

If YES,
explain:

If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist:

No obvious features, sites, or artefacts of cultural significance were identified within the proposed land development area.

Will any building or structure older than 60 years be affected in any way?

YES	NO X
YES	NO X

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

SECTION C: PUBLIC PARTICIPATION

The principles of the National Environmental Management Act, 1998 (Act No 107 of 1998) and the Environmental Impact Assessment Regulations, 2010 govern the process of Environmental Impact Assessment, including Public Participation.

Effective public involvement is an essential component of many decision-making structures, and effective community involvement is the only way in which the power given to communities can be used efficiently. The Public Participation Process is designed to provide sufficient and accessible information to interested and affected parties (I&AP's) in an objective manner to assist them to:

- Raise issues of concern and suggestions for enhanced benefits;
- Verify that their issues have been captured;
- Verify that their issues have been considered by the technical investigations; and
- Comment on the findings of the Basic Assessment Report.

Please refer to **Appendix E**.

1. ADVERTISEMENT

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) fixing a notice board (of a size at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the department) at a place conspicuous to the public at the boundary or on the fence of—
 - (i) the site where the activity to which the application relates is or is to be undertaken; and
 - (ii) any alternative site mentioned in the application;
- (b) giving written notice to—
 - (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
 - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
 - (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;

- (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
 - (v) the municipality which has jurisdiction in the area;
 - (vi) any organ of state having jurisdiction in respect of any aspect of the activity; and
 - (vii) any other party as required by the department;
- (c) placing an advertisement in—
- (i) one local newspaper; or
 - (ii) any official *Gazette* that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official *Gazette* referred to in subregulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the department, in those instances where a person is desiring of but unable to participate in the process due to—
- (i) illiteracy;
 - (ii) disability; or
 - (iii) any other disadvantage.

In terms of the Guideline Document for Environmental Impact Assessment (EIA) Regulations promulgated in terms NEMA, stakeholders (I&AP's) were notified of the Environmental Evaluation Process as follows:

- Site notices were erected (at prominent points on and around the study area) from 10 September 2014;
- Land owners and occupiers were notified via hand delivered notices as well as email communication on 10 September 2014;
- Notices regarding the project were further e-mailed, faxed and sent via registered mail to a list of interested and affected parties that registered for the project;
- A list of all persons, organisations and organs of state that were registered as interested and affected parties in relation to the application are attached as Proof of Advertisement;
- An advertisement was placed in the **The Beat** newspaper on 10 September 2014;
- LIHRA was informed of the proposed development in writing, and requested additional information pertaining to the project;
- The ward councillor was informed of the applicant's intention to submit an application to the competent authority;

- The following institutions and organs of state were also identified as I & AP's and added to the register of the I & AP's:
 - Limpopo Department of Water Affairs (DWA);
 - Limpopo Department of Agriculture;
 - Lepelle Northern Water;
 - SANRAL;
 - Roads Agency Limpopo;
 - Eskom;
 - Spoornet;
 - South African Heritage Resources Agency (SAHRA);
 - Limpopo Heritage Resources Agency (LIHRA);
 - Waterberg District Municipality;
 - Mookgopong Local Municipality;
 - Council for Geoscience; and
 - Limpopo Land Claims Commissioner.

2. CONTENT OF ADVERTISEMENTS AND NOTICES

A notice board, advertisement, or notices must:

- (a) indicate the details of the application which is subjected to public participation; and
- (b) state—
 - (i) that the application has been submitted to the department in terms of these Regulations, as the case may be;
 - (ii) whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;
 - (iii) the nature and location of the activity to which the application relates;
 - (iv) where further information on the application or activity can be obtained; and
 - (v) the manner in which and the person to whom representations in respect of the application may be made.

The Advertisements and notices indicated that an application will be submitted to the Limpopo Department of Economic Development, Environment and Tourism in terms of the NEMA 2010 EIA regulations for listed activities under Listing Notice 1 and 3 , the nature and location of the activity, where further information on the proposed activity

can be obtained and the manner in which representations in respect of the application can be made.

3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the department in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of these Regulations.

Advertisements and notices must make provision for all alternatives.

Given the localised impact of the proposed activity, a newspaper notice was placed in **The Beat** newspaper (a local circular distributed in Mookgopong and surrounding towns), indicating that an application will be submitted to the Limpopo Department of Economic Development, Environment and Tourism in terms of the NEMA 2010 EIA regulations for listed activities under Listing Notice 1 and 3, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made.

4. DETERMINATION OF APPROPRIATE MEASURES

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the department to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

Considering the limited response to the public notices from I&APs, a Public Participation Meeting was not deemed necessary.

5. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in these Regulations and be attached to this application. The comments and response report must be attached under Appendix E.

The Draft Basic Assessment Report will be made available for public and local authority review, and will be sent to the Local and District municipalities as well as all organs of state listed as I&APs.

Further, the Draft Report will be made available to the Public for review, on our website, www.bokamoso.net and as a hard copy at the Mookgopong Local Municipality. The various authorities must still supply comments regarding this Draft Report. No comments were received from authorities, except from LIHRA. The comments of the authorities will be addressed in an Issues and Response Report to be included as part of the Final Basic Assessment Report.

A summary of the issues raised by the Interested and Affected Parties, are attached as Comments & Issues Register.

6. AUTHORITY PARTICIPATION

Please note that a complete list of all organs of state and or any other applicable authority with their contact details must be appended to the basic assessment report or scoping report, whichever is applicable.

Authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input.

Name of Authority informed:	Comments received (Yes or No)
Mookgopong Local Municipality	NO
Waterberg District Municipality	NO
Limpopo Department of Water Affairs (DWA)	NO
Limpopo Department of Agriculture	NO
Lepelle Northern Water	NO
Roads Agency Limpopo	NO

Limpopo Heritage Resources Agency	YES
Limpopo Land Claims Commissioner	NO

7. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for linear activities, or where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that subregulation to the extent and in the manner as may be agreed to by the department.

Proof of any such agreement must be provided, where applicable.

Has any comment been received from stakeholders?

YES	NO
X	

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

Only one comment was received from LIHRA requesting that additional project information, over and above the Public Notice, be provided.

Bokamoso responded that LIHRA will be provided with a copy of the draft BAR for comment.

SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2010, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

Significance Description Methodology

The significance of Environmental Impacts was assessed in accordance with the following method:

Significance is the product of probability and severity. Probability describes the likelihood of the impact actually occurring, and is rated as follows:

Likelihood	Description	Rating
Improbable	Low possibility of impact to occur either because of design or historic experience	2
Probable	Distinct possibility that impact will occur	3
Highly probable	Most likely that impact will occur	4
Definite	Impact will occur, in the case of adverse impacts regardless of any prevention measures	5

The severity factor is calculated from the factors given to "intensity" and "duration". Intensity and duration factors are awarded to each impact, as described below.

The Intensity factor is awarded to each impact according to the following method:

Intensity	Description	Rating
Low intensity	Natural and man-made functions not affected	1
Medium intensity	Environment affected but natural and man-made functions and processes continue	2
High intensity	Environment affected to the extent that natural or man-made functions are altered to the extent that it will temporarily or permanently cease or become dysfunctional.	4

Duration is assessed and a factor awarded in accordance with the following:

Duration	Description	Rating
Short term	<1 to 5 years - Factor 2	2
Medium term	5 to 15 years - Factor 3	3
Long term	Impact will only cease after the operational life of the activity, either because of natural process or by human intervention.	4
Permanent	Mitigation, either by natural process or by human intervention, will not way or in such a time span that the impact can be considered transient.	4

The severity rating is obtained from calculating a severity factor, and comparing the severity factor to the rating in the table below. For example:

$$\begin{aligned}
 \text{The Severity factor} &= \text{Intensity factor X Duration factor} \\
 &= 2 \times 3 \\
 &= 6
 \end{aligned}$$

A Severity factor of six (6) equals a Severity Rating of Medium severity (Rating 3) as per table below:

Severity Factor	Severity	Rating
Calculated values 2 to 4	Low Severity	2
Calculated values 5 to 8	Medium Severity	3
Calculated values 9 to 12	High Severity	4
Calculated values 13 to 16	Very High severity	5

A Significance Rating is calculated by multiplying the Severity Rating with the Probability Rating.

Significance	Rating	Influence
Low significance	Rating 4 to 6	Positive impact and negative impacts of low significance should have no influence on the proposed development project.
Medium significance	Rating >6 to 15	Positive impact. Should weigh towards a decision to continue Negative impact. Should be mitigated to a level where the impact would be of medium significance before project can be approved.
High significance	Rating 16 and more	Positive impact. Should weigh towards a decision to continue, should be enhanced in final design. Negative impact. Should weigh towards a decision to terminate proposal, or mitigation should be performed to reduce significance to at least medium significance rating.

1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

No issues were raised by Interested and Affected Parties.

LHRA only requested additional information pertaining to the project.

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report as Annexure E):

Refer to the Comments and Response Report attached.

2. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

List the potential direct, indirect and cumulative property/activity/design/technology/operational alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed.

Alternative (preferred alternative)

POTENTIAL IMPACTS	Direct	Indirect	Cumulative	Positive/Negative	MITIGATION MEASURES	Significance following mitigation				
						Probability rating	Severity rating	Severity Factor	Severity rating	Significance rating
						Intensity	Duration			
PLANNING AND DESIGN PHASE										
<input type="checkbox"/> Land claims Land claims could result in development not being allowed by the land claims commissioner.	X				<p>➤ Developer has informed the Provincial Land Claims Commissioner of intended construction.</p>	1	2	2	2	4 = Low
<input type="checkbox"/> Development triggers The proposed development of a Shopping Centre triggers a Township establishment application in terms of The Townplanning and Townships Ordinance, which could be refused.	X				<p>➤ The Developer has submitted an application for Township Establishment to Local Municipality.</p>	1	2	2	2	4 = Low
<input type="checkbox"/> Servitudes required Servitudes might be required for services (water/sewerage/electricity) over adjacent land not owned by the developer/ Municipality.	X				<p>➤ Developer/Municipality to claim servitudes if required.</p>	1	2	2	2	4 = Low

requirements.	Approval of building plans If building plans are not approved, the development cannot continue.	X	X	Direct	Indirect	Cumulative	Positive/Negative	Mitigation Measures	Significance following mitigation					4 = Low
									Probability rating	Severity rating	Duration	Severity Factor	Severity rating	
CONSTRUCTION PHASE														
<input type="checkbox"/>	Alignment with Mookgopong Local Municipality IDP and SDF The development is in line with the IDP and SDF in terms of speeding up growth and transforming the economy, building social and economic infrastructure, strengthening skills and human resource base, addressing lack of bulk services and contributing to commercial development.		X				+		5	1	4	4	2	10 = Medium
<input type="checkbox"/>	Creation of Job opportunities The proposed infrastructure construction activities will create job opportunities during the construction phase of the project, as well the operational phase of the Shopping centre, thus addressing unemployment.		X				+		5	1	2	2	2	10 = Medium
<input type="checkbox"/>	Traffic flow through town (R101) negatively impacted The proposed development could negatively affect tourism and local traffic through town if road infrastructure is not upgraded according to development requirements.		X				-		2	1	2	2	2	4 = Low
<input type="checkbox"/>	Pollution of environment due to poor general waste management General waste generated by construction	X					-		3	2	2	4	2	6 = Low

iLEDET BA Report, EIA 2010:
 Project Name: Mookgopong X10 on Part of Portion 17 of the farm Vlakfontein 522 KR, Mookgopong, Limpopo Province

<p>workers should be properly managed to prevent pollution of the environment and nuisance to neighbours.</p>				<p>marked and locations communicated to construction workers.</p>	<p>General waste to be collected and disposed of at a registered landfill site during construction and operational phase.</p>																		
---	--	--	--	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

				2	1	2	2	2	2	4 = Low
<input type="checkbox"/> Nuisance to neighbours in terms of noise generation Normal construction works might cause noise pollution, but it is unlikely considering proximity of construction activities in relation to nearest neighbours and location of labour housing.	X			> The construction works should be limited to normal working hours to minimize the construction noise during more sensitive times. > Construction should only be allowed to take place between 8h00 and 17h00 during weekdays, and 8h00 and 13h00 on Saturdays. > No work should take place on Sundays or national holidays.	2	1	2	2	2	4 = Low
<input type="checkbox"/> Nuisance to neighbours in terms of dust pollution The construction works might cause a nuisance to neighbours in terms of dust pollution and it will be important to minimize the dust that is generated on site. All areas where construction work is taking place will generate dust.	X			> Cleared areas should be limited > Areas should only be cleared when construction is due to commence.	2	1	2	2	4 = Low	
<input type="checkbox"/> Loss of topsoil Topsoil is regarded as a valuable resource that should be conserved during the construction phase. Topsoil can be damaged through compaction, pollution, and erosion.	X			> All areas where construction work will take place should be cleared of vegetation, and the topsoil should be stockpiled in designated, already disturbed areas of the site; > At Least 150mm of topsoil should be removed; > The grass component should be included as part of the topsoil; > The stockpiles may not be located close to natural or temporary drainage lines; > The stockpiles should be no higher than 2m; > The stockpiles should be protected to ensure that heavy construction vehicles and machinery do not compact the soil; > Topsoil and excavated subsoil should be stockpiled separately; > The subsoil may be used for filling material, but the topsoil may only be used for rehabilitation work and landscaping; and > Compacted soil must be ripped to a minimum depth of 300mm before the area can be rehabilitated and landscaped.	3	1	2	2	2	6 = Low

							1	2	2	2	6 = Low
<input type="checkbox"/> Vehicle maintenance on site might cause pollution Unplanned maintenance may be required for construction vehicles during the construction period. Maintenance activities might pollute soil and water by oil, lubricants, and fuel. Any pollution of the soil and water is undesirable and should be prevented.	X										
<input type="checkbox"/> Construction during the rainy season can cause delays and damage to the environment During construction rain spells could cause delays of some construction activities and this could not only have financial implications, but also lengthen the time that soils will be left exposed and subject to erosion.		X					2	2	2	2	4 = Low
<input type="checkbox"/> Erosion, siltation and dust generation due to exposed areas Soils will be disturbed and subsoil exposed during the construction phase that may cause the potential for erosion and associated siltation, or dust becoming airborne during dry periods associated with high winds.	X						2	2	2	2	4 = Low
<input type="checkbox"/> Excavation work could expose archaeological finds During excavation work archaeological finds might be encountered requiring protection in terms of the Heritage Resources Act.	X						3	2	2	4	6 = Low
<input type="checkbox"/> Proposed development could negatively	X						2	2	2	4	4 = Low

<p>Impact on ecology The proposed development is situated in an area classified as Ecological Support Area 1 in terms of the Limpopo Conservation Plan and red data mammal species occur within the development boundaries.</p>				<p>on the development site during construction, an ecologist should be requested to capture and relocate the mammals to a protected area (reserve) within the district with the same vegetation type.</p> <ul style="list-style-type: none"> ➤ Contract workers to be made aware of potential red data mammal species and that no trapping or snaring of animals may occur on site. 					
<p><input type="checkbox"/> Sewerage infrastructure capacity 35m³ of sewage will be generated by the Shopping centre daily, and the existing sewerage infrastructure and STW can deal with the volumes if certain actions are implemented.</p>	X			<ul style="list-style-type: none"> ➤ Three-chambered black water treatment system to be Installed of which the effluent is grey water ➤ Grey water to be pumped to invert level of existing 160mm sewer line in 1st Avenue ➤ Sewer line to be constructed across 1st Avenue. 	3	2	1	2	6 = Low
<p><input type="checkbox"/> Storm water management Storm water from developments to the north and west of the site drain into a storm water pond situated on site posing a flood risk.</p>	X			<ul style="list-style-type: none"> ➤ Storm water retention pond to be drained ➤ Quarry to be filled and compacted ➤ Storm water management infrastructure to be constructed in accordance with storm water management plan in and around the site. 	3	2	1	2	6 = Low
<p><input type="checkbox"/> Fire fighting capacity Sufficient water capacity required for fire reticulation system.</p>	X			<ul style="list-style-type: none"> ➤ Fire storage tanks to be installed ➤ Fire reticulation system to be installed. 	3	2	1	2	6 = Low

POTENTIAL IMPACTS	Direct	Indirect	Cumulative	Positive/Negative	Significance following mitigation						
					Probability rating	Severity rating		Severity Factor	Severity rating	Significance rating	
						Intensity	Duration				
OPERATIONAL PHASE											
<input type="checkbox"/> Alignment with Mookgopong Local Municipality IDP and SDF The development is in line with the IDP and SDF in terms of speeding up growth and transforming the economy, building social and economic infrastructure, strengthening skills and human resource base, addressing lack of bulk services and contributing to commercial development.	X					5	2	4	8	3	15 = Medium
<input type="checkbox"/> Creation of Job opportunities The proposed infrastructure construction activities will create job opportunities during the construction phase of the project, as well the operational phase of the Shopping centre, thus addressing unemployment.	X	X				5	4	4	16	5	25 = High

POTENTIAL IMPACTS	Direct	Indirect	Cumulative	Positive/Negative	MITIGATION MEASURES	Significance following mitigation						
						Probability rating	Severity rating	Severity Factor	Severity rating	Significance rating		
REHABILITATION & DECOMMISSIONING PHASE												
<input type="checkbox"/> Proposed development could negatively impact on ecology The proposed development is situated in an area classified as Ecological Support Area 1 in terms of the Limpopo Conservation Plan and red data mammal species occur within the development boundaries.	X				> The developer must retain as much natural areas as possible as part of the development and should avoid cosmetic and unnatural landscaping.	3	2	4	8	3	9 = Medium	

Alternative S2

N/A

Alternative S3

N/A

No-go Alternative

The "No-Go" option entails that the proposed development of constructing a Shopping centre do not take place. If no development takes place, the status-quo in terms of the bio-physical environment will be maintained.

POTENTIAL IMPACTS	Direct	Indirect	Cumulative	Positive/ Negative
CONSTRUCTION PHASE				
<input type="checkbox"/> No alignment with Mookgopong Local Municipality IDP and SDF	X			-
<input type="checkbox"/> No additional jobs opportunities	X			-
<input type="checkbox"/> No potential to pollute environment due to poor general waste management	X			+
<input type="checkbox"/> No nuisance to neighbours in terms of potential noise generation	X			+
<input type="checkbox"/> No nuisance to neighbours in terms of potential dust generation	X			+
<input type="checkbox"/> No loss of topsoil	X			+
<input type="checkbox"/> No potential pollution due to vehicle maintenance on site	X			+
<input type="checkbox"/> No damage to the environment due to construction during wet conditions	X			+
<input type="checkbox"/> No erosion, siltation and dust generation due to construction activities	X			+
<input type="checkbox"/> No potential damage to archaeological finds	X			+
<input type="checkbox"/> No negative impact on ecology	X			+
OPERATIONAL PHASE				
<input type="checkbox"/> No alignment with Mookgopong Local Municipality IDP and SDF	X			-
<input type="checkbox"/> No additional jobs opportunities	X			-

3. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

Alternative A (preferred alternative)

The report has detailed all the major impacts, their significance and the mitigation measures required. The assessment demonstrates the associated negative impacts of the development are within the lower limit and acceptable. Further, the assessment shows that there are various positive impacts that will contribute towards enhancement of the local economy.

It is therefore evident that, based on the biophysical and socio-economical characteristics, the site is suitable for the proposed development, only if the project is planned and managed in accordance with an approved Environmental Management Plan. The development will be compatible with the surrounding area and create temporary job opportunities during the construction phase as well as permanent job opportunities during the operational phase of the project.

The Physical and Biological Environment:

Construction Phase

- The natural environment will be affected by construction related activities such as site clearance, bulk earthworks etc. Considering the study area is situated in an Ecological Support Area 1 in terms of the Limpopo Conservation Plan consisting of Springbokvlakte Thornveld, the implementation of the proposed mitigation measures i.e. relocation of red data mammal species to a conservancy, raising awareness amongst construction personnel regarding red data mammal species present on site, and retaining as much natural area (Springbokvlakte Thornveld) as possible, will reduce the potential impact on red data mammal species to medium.

Operational Phase

- The natural environment will be affected by operational related activities in the sense that the Ecological Support Area will most likely no longer be able to

function as a support area due to the transformation of the land to a built up area. Despite implementation of proposed mitigation measures, the potential impact on the physical and biological environment remains medium during the operational phase.

The Socio-economic Environment:

Construction Phase

- The proposed development will have a positive impact on the economy of Mookgopong due to providing temporary job opportunities to local labor during the construction phase.
- The potential negative impacts on society e.g. noise, dust generation, aesthetics, traffic congestion etc. will be negligible i.e. of low significance if proposed mitigation measures are implemented.
- The potential for discovering Cultural/Historical finds is unlikely.

Operational Phase

The proposed development will have a considerable positive impact on the economy of the area during the operational phase due to creating job opportunities, contributing to the GGP, providing the Local Municipality with additional revenue to increase their tax base, and building economic infrastructure.

All of the aforementioned is aligned with the Mookgopong IDP and SDF.

Finding

No potential "fatal flaw" was identified during the impact assessment. Most potential negative impacts have a low significance, with one potential positive impact related to the social and economic environment having a medium significance and job creation having a significant positive impact during the operational phase of the project.

Only one potential negative impact has moderate significance following the implementation of mitigation measures.

Bokamoso is of the opinion that the proposed development if planned, implemented and managed correctly, will have a limited adverse impact on the bio-physical environment and a considerable positive impact on the socio-economic environment due to providing an estimated 900 permanent employment

opportunities to a community with approximately 12,000 persons (35%) who are unemployed (2011 census) i.e. potentially reducing Mookgopong unemployment by 7.5%.

In the long term the development will have a positive impact on the social and economic environments, not only on a local level, but on a regional and provincial level as well.

It is therefore requested that the development be allowed to proceed, so long as the mitigation measures contained in this report and in the draft Environmental Management Plan are implemented, so as to achieve maximum advantage from beneficial impacts, and sufficient mitigation of adverse impacts.

No-go alternative (compulsory)

The no-go option entails that the development site remains in its current state, with the status quo being maintained in terms of the bio-physical environment.

The site is currently zoned as Special although the land is vacant. The development site is ecologically sensitive due to the occurrence of red data mammal species and the vegetation unit Springbokvlakte Thornveld serving as ecological support area.

If the project is not approved to proceed then the status quo will be maintained in terms of the bio-physical environment, however the potential positive contribution to the social and economic environment will not be attained.

Alternative B

N/A

Alternative C

N/A

For more alternatives please continue as alternative D, E, etc.

SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

YES	NO
X	

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment):

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the department in respect of the application:

As a result of the above mentioned information, Bokamoso requests that the above development be approved as long as the following are followed:

- Mitigation measures as contained in the draft Environmental Management Plan must become part of the Record of Decision for implementation by and adherence to by all parties involved with Shopping centre development.

Is an EMPr attached?

YES	NO
X	

The EMPr must be attached as **Appendix F**.

SECTION F: APPENDIXES

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix E: Public Participation

Appendix F: Environmental Management Programme (EMPr)

Appendix G: Other information

SECTION G: DECLARATION BY THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

I, Anè Agenbacht declare that I –

- (a) act as the independent environmental practitioner in this application;
- (b) do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;
- (c) do not have and will not have a vested interest in the proposed activity proceeding;
- (d) have no, and will not engage in, conflicting interests in the undertaking of the activity;
- (e) undertake to disclose, to the competent authority, any material information that has or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2006;
- (f) will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- (g) will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the Department in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the Department may be attached to the report without further amendment to the report;
- (h) will keep a register of all interested and affected parties that participated in a public participation process; and
- (i) will provide the Department with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

Signature of the Environmental Assessment Practitioner:

BOKAMOSO LANDSCAPE ARCHITECTS AND ENVIRONMENTAL CONSULTANTS CC

Name of company:

Date:

Bokamoso Landscape Architects & Environmental Consultants CC
The format of this report vests in L. Gregory

December 2014

**ANNEXURE A:
SITE PLANS**



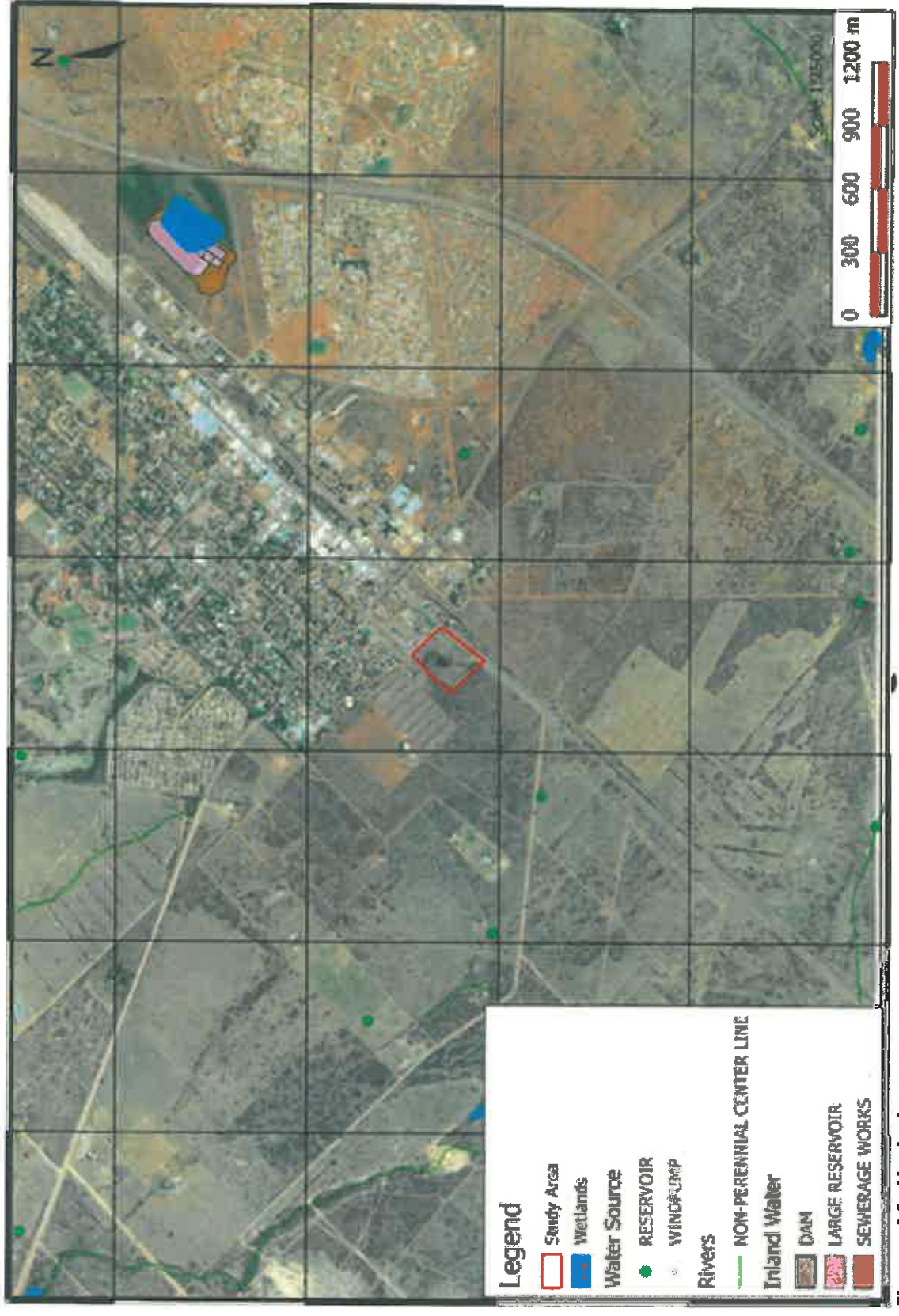


Figure A1: Hydrology map

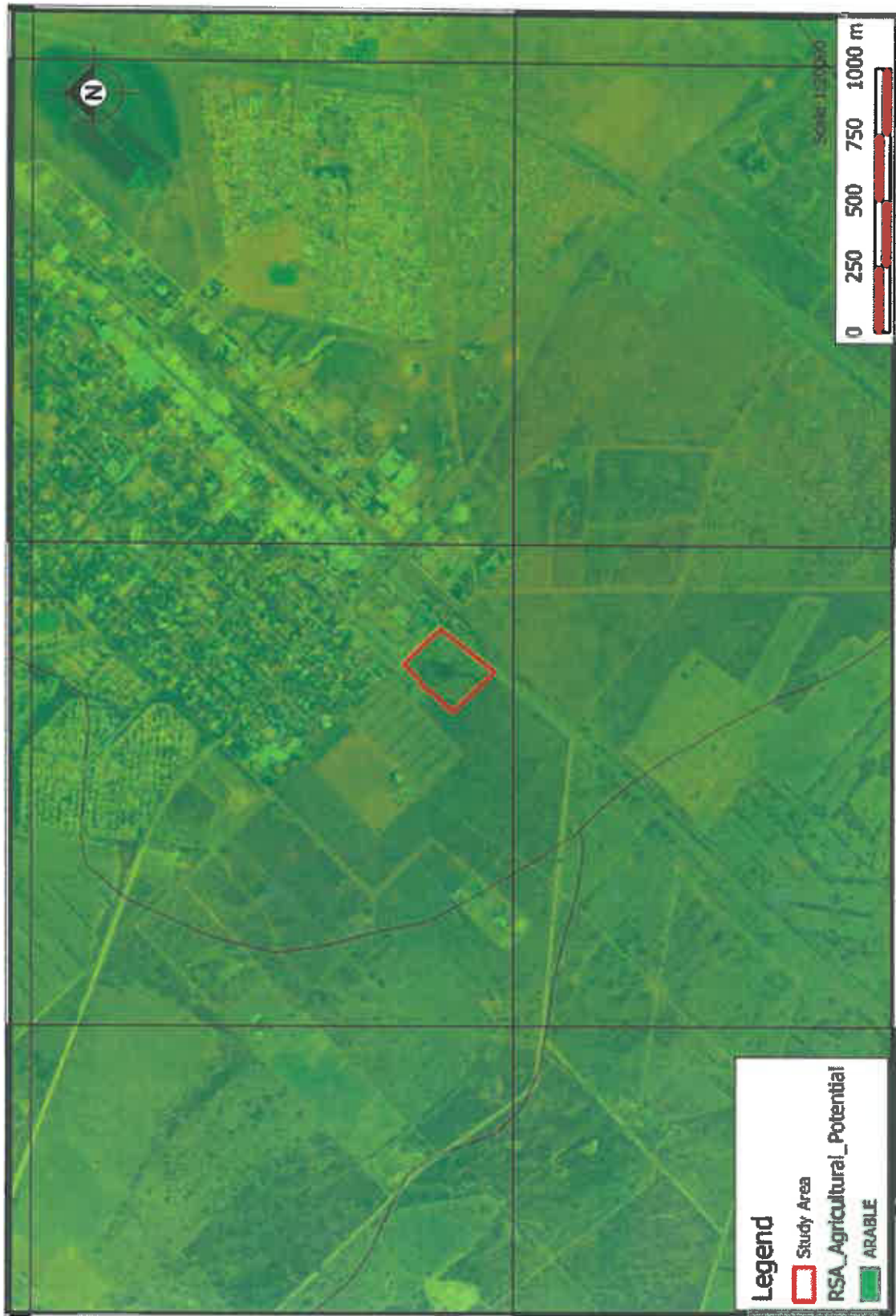


Figure A2: Agricultural potential map

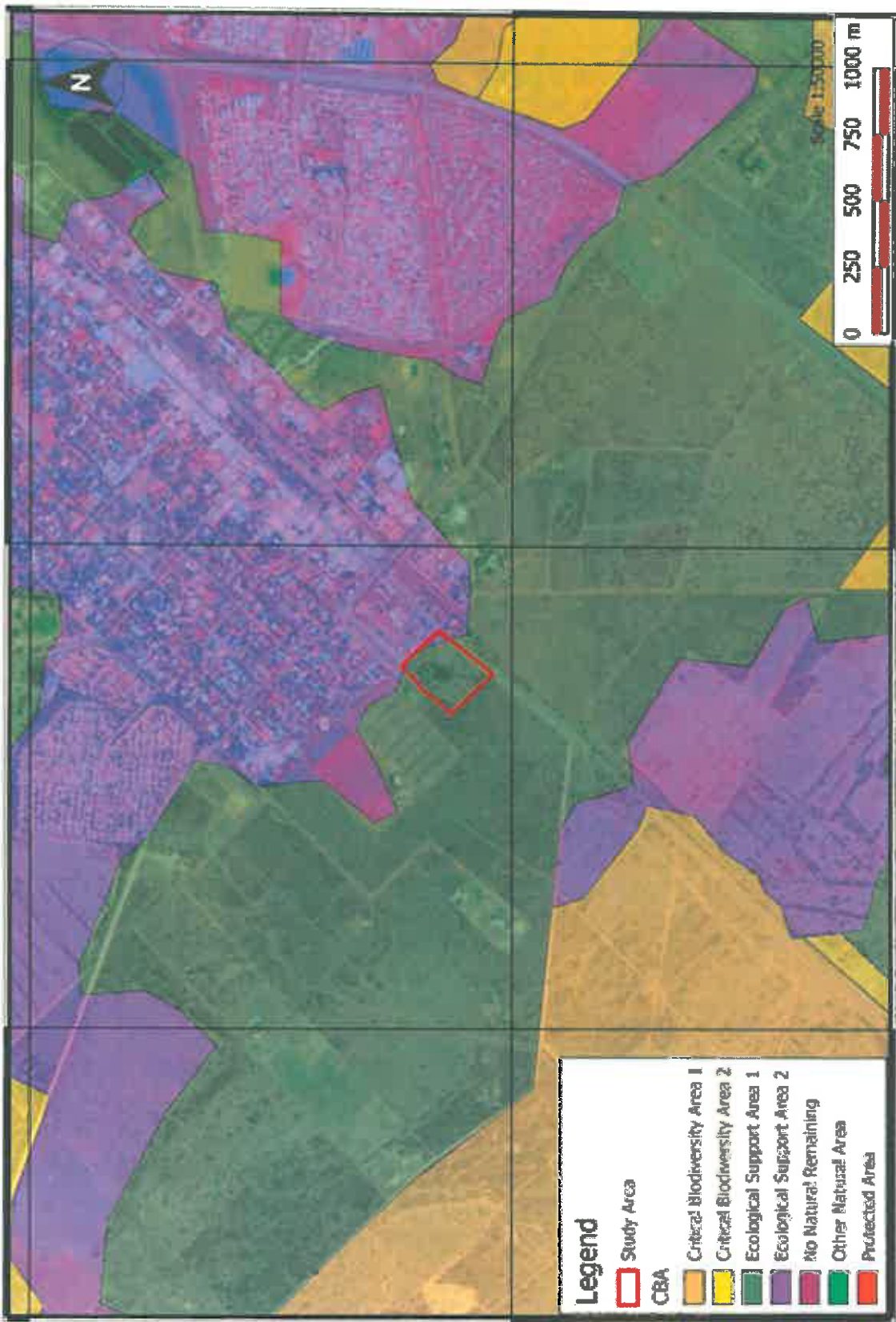


Figure A3: Critical Biodiversity Areas

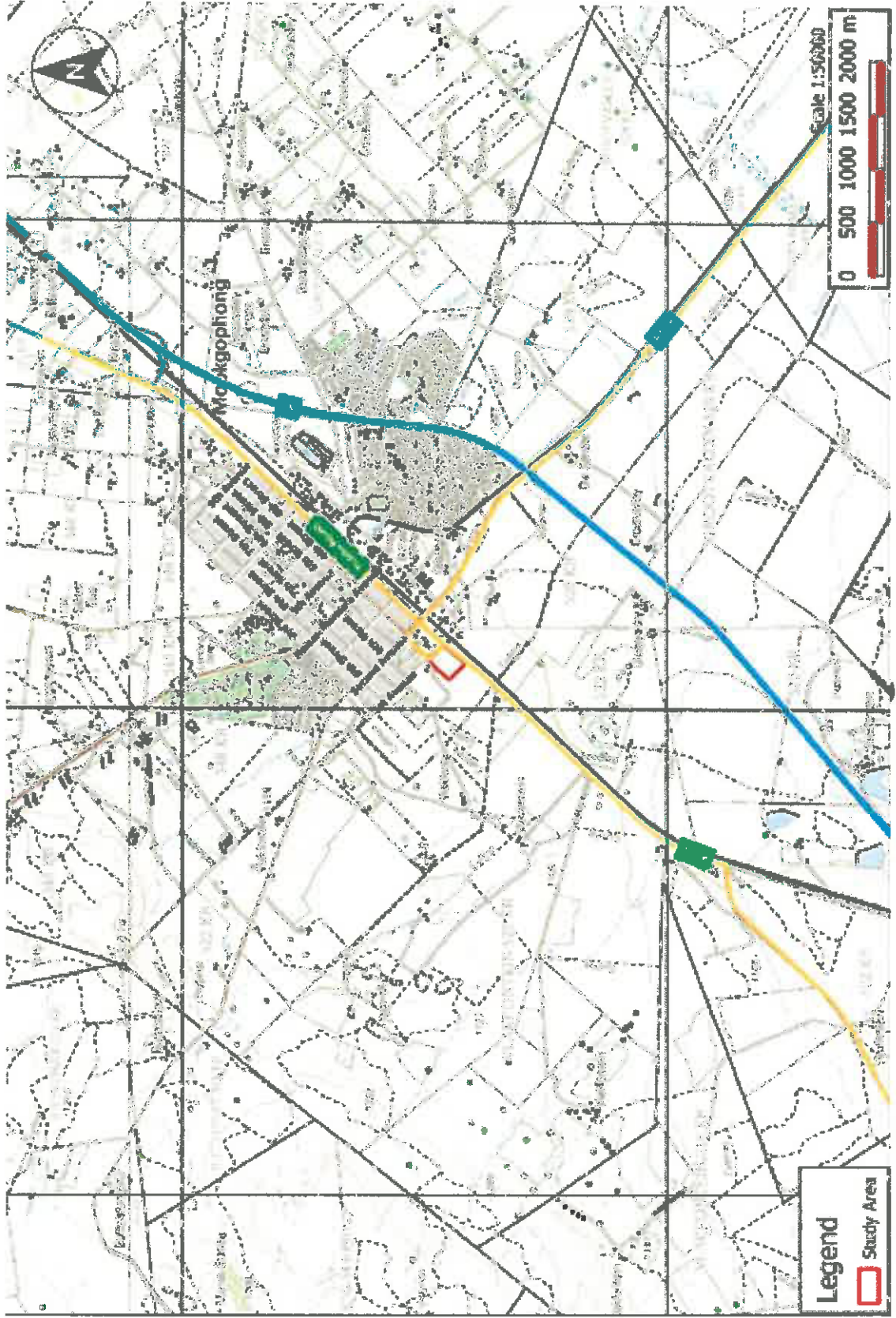


Figure A4: Locality map



Figure A5: Aerial map



Figure A6: Threatened Ecosystems

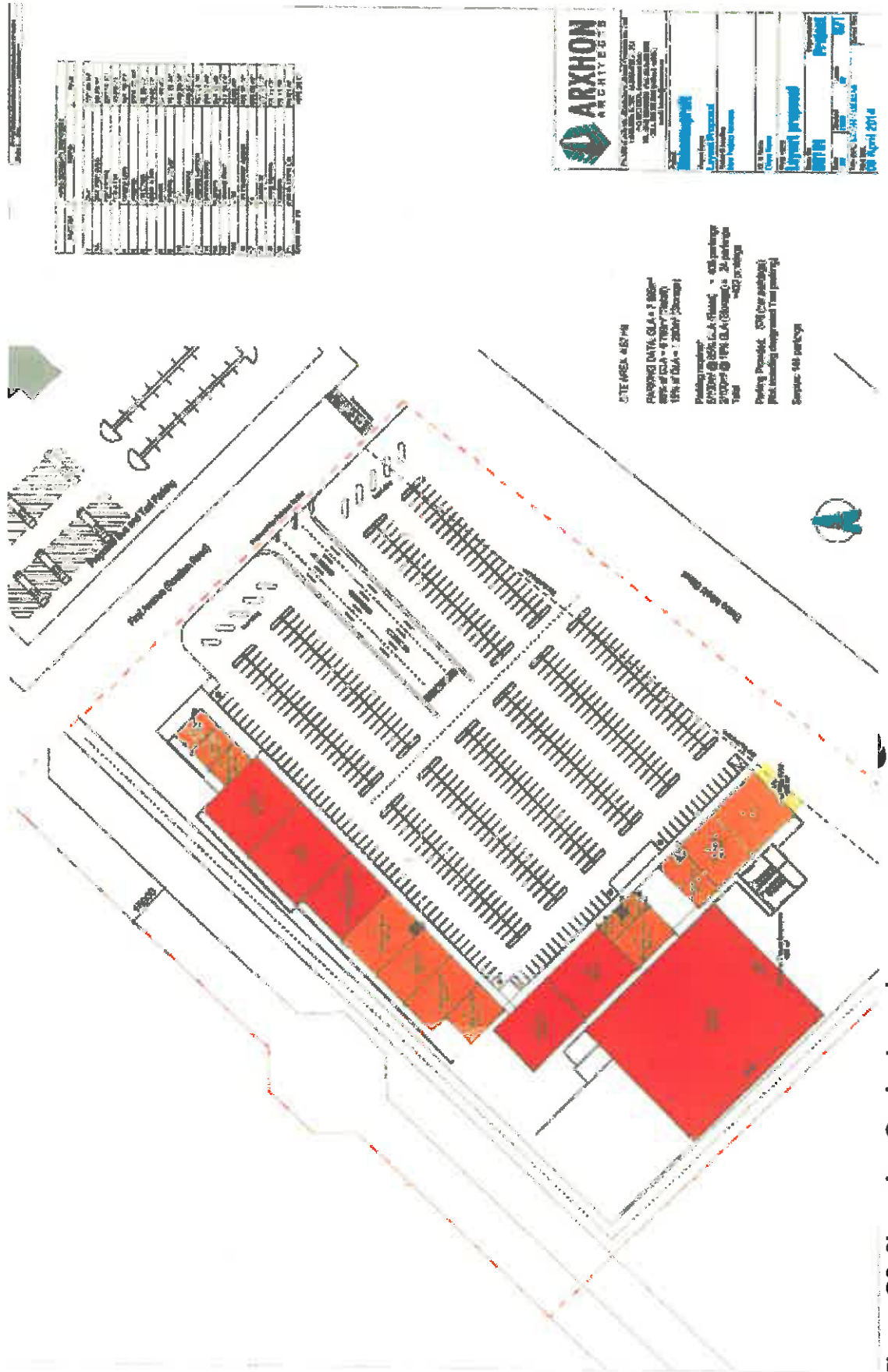
**ANNEXURE B:
PHOTOGRAPHS**

Not available



**ANNEXURE C:
FACILITY ILLUSTRATION/
DESIGN DRAWING**





CITE MEL 457 M

PARKING DATA: GLA = 7 800m²
 Area of GLA = 4 700m² (Total)
 10% of GLA = 470m² (Storage)

Parking provision:
 500 cars @ 250 L.A. / car = 125 parking
 500 cars @ 10% GLA (Storage) = 50 parking
 Total = 175 parking

Parking Provision: 20% (for parking)
 plus loading equipment (100 parking)

Storage: 50 parking

ARXHON ARCHITECTS

100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Figure C2: Shopping Centre Layout

ANNEXURE D: SPECIALIST REPORTS

Will be made available
in the FBAR



**ANNEXURE E:
PUBLIC PARTICIPATION**



Appendix E1:
Proof of Site Notice

NOTICE OF BASIC ASSESSMENT PROCESS

Notice is given of an application for a **Basic Assessment Process** that was submitted to the Limpopo Department of Economic Development, Environment and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing **Basic Assessment Procedures (Listing Notice: 1 and 3 – Government Notice R544 & R546)** for the following activity:

Reference No: 12/1/9/1-W91

NEAS Reference No: LIM/EIA/0000928/2014

Project Name: Mookgopong X10 (formerly known as Mookgopong X7)

Property Description: On Part of Portion 17 of the Farm Vlakfontein 522 KR

Project Description: The proposed development is for a Shopping Centre and streets that will consist of the following uses: "Special" for Shops; Wholesale trade; Commercial uses; Offices; Medical consulting rooms; Restaurants; Places of amusement; Places of Instruction; Places of refreshment; Bakeries; Dry cleaners; Builders yard; Institution (provided that the Private Clinic is restricted to 13 beds); Dispensing chemist; Social hall; Vehicle sales lot and Hotel.

Listing Activities Applied for:

GNR 544 (Listing Notice 1), 18 June 2010	Activity 9
GNR 544 (Listing Notice 1), 18 June 2010	Activity 10
GNR 544 (Listing Notice 1), 18 June 2010	Activity 22
GNR 544 (Listing Notice 1), 18 June 2010	Activity 23
GNR 544 (Listing Notice 1), 18 June 2010	Activity 37
GNR 544 (Listing Notice 1), 18 June 2010	Activity 38
GNR 546 (Listing Notice 3), 18 June 2010	Activity 13

Proponent Name: Mookgopong Square Ontwikkelings (Pty) Ltd

Location: The site is situated along the R101 (becomes Thabo Mbeki street) just south-west of Mookgopong. Second Avenue (R519) in Mookgopong is about 600m north-east of the eastern corner of the site.

Date of Notice: 10 September 2014 – 20 October 2014

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project Inquiries: **Anè Agenbacht**

P.O. Box 11375

Maroelana 0161

www.bokamoso.biz

Tel: (012) 346 3810

Fax: (086) 570 5659

E-mail: lizelleg@mweb.co.za

In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above **within 40 days of this Notice**.

NOTICE OF BASIC ASSESSMENT PROCESS

Notice is given of an application for a Basic Assessment Process that was submitted to the Director, Department of Economic Development, Environment and Tourism, in terms of Regulation No. 2543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing Basic Assessment Procedures (Listing Notice: 1 and 3 - Government Notice 2544 & 2544) for the following activity:

Reference No: 12/1/9/1-W91
NEAS Reference No: LIM/EIA/0000926/2014

Project Name: Mookgopong X10 (formerly known as Mookgopong X7)

Property Description: On Part of Portion 17 of the Farm Vlakfontein 522 KR

Project Description: The proposed development is for a Shopping Centre and streets that will consist of the following uses: "Special" for Shops; Wholesale trade; Commercial uses, Offices, Medical consulting offices, Restaurants; Places of amusement; Places of instruction; Places of refreshment, Bakeries, Dry cleaners, Bookshops, Institution (provided that the Private Clinic is restricted to 13 beds), Dispensing chemist, Social hall, Vehicle sales lot and Hotel.

Listing Activities Applied for:

GNR 544 (Listing Notice 1), 18 June 2010	Activity 9
GNR 544 (Listing Notice 1), 18 June 2010	Activity 19
GNR 544 (Listing Notice 1), 18 June 2010	Activity 22
GNR 544 (Listing Notice 1), 18 June 2010	Activity 25
GNR 544 (Listing Notice 1), 18 June 2010	Activity 37
GNR 544 (Listing Notice 1), 18 June 2010	Activity 38
GNR 546 (Listing Notice 3), 18 June 2010	Activity 13

Proponent Name: Mookgopong Square Ontwikkelings (Pty) Ltd

Location: The site is situated along the R101 (becomes Thabo Mbeki street) just south-west of Mookgopong Second Avenue (RS19) in Mookgopong is about 600m north-east of the eastern corner of the site.

Date of Notice: 10 September 2014 - 20 October 2014

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project initiator: **Ané Agenbacht**

P.O. Box 11375

Maropeng 0161

www.bokamoso.biz

Tel: (012) 346 3810

Fax: (086) 570 5630

E-mail: jb@bokamoso.biz

In order to ensure that you are identified as an interested party and/or affected party, please provide your name, contact information and interest in the matter, in writing to the project initiator, within 10 business days of this Notice.

10:09 2014 10:55



10 09 2014 10 55

NOTICE OF BASIC ASSESSMENT PROCESS

Notice is given to all stakeholders for a Basic Assessment Process for the proposed development of a new road in the area of the Department of Economic Development, Government of the Western Cape. The project is located in the area of the Department of Economic Development, Government of the Western Cape. The project is located in the area of the Department of Economic Development, Government of the Western Cape.

Reference is made to the following documents:

- Project Name: [Project Name]
- Project Location: [Project Location]

Project Description: The proposed development is a [Project Description]. The project is located in the area of the Department of Economic Development, Government of the Western Cape. The project is located in the area of the Department of Economic Development, Government of the Western Cape.

Using Activities Applied To:

Using Activity	Start Date	End Date
Using Activity 1	15 June 2014	15 June 2014
Using Activity 2	16 June 2014	16 June 2014
Using Activity 3	17 June 2014	17 June 2014
Using Activity 4	18 June 2014	18 June 2014
Using Activity 5	19 June 2014	19 June 2014
Using Activity 6	20 June 2014	20 June 2014

Project Name: [Project Name]

Project Location: [Project Location]

Project Description: [Project Description]

Project Contact: [Project Contact]

10 09 2014 10 55



10 09 2014 10 55

Appendix E2:

Written notices issued to those
persons detailed in 1(b) to 1(f) above

MOOKGOPONG X10 (FORMERLY KNOWN AS MOOKGOPONG X7)



NOTICE OF BASIC ASSESSMENT PROCESS

Notice is given of an application for a **Basic Assessment Process** that was submitted to the Limpopo Department of Economic Development, Environment and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing **Basic Assessment Procedures (Notice 1 and 3 – Government Notice R544 & R546)** for the following activity:

Reference No: 12/1/9/1-W91

NEAS Reference No: LIM/EIA/0000928/2014

Project Name: Mookgopong X10 (formerly known as Mookgopong X7)

Property Description: On Part of Portion 17 of the Farm Viakfontein 522 KR

Project Description: The proposed development is for a Shopping Centre and streets that will consist of the following uses: "Special" for Shops; Wholesale trade; Commercial uses; Offices; Medical consulting rooms; Restaurants; Places of amusement; Places of Instruction; Places of refreshment; Bakeries; Dry cleaners; Builders yard; Institution (provided that the Private Clinic is restricted to 13 beds); Dispensing chemist; Social hall; Vehicle sales lot and Hotel.

Proponent Name: Mookgopong Square Ontwikkelings (Pty) Ltd

Listing Activities Applied: GNR 544 (Listing Notice 1), 18 June 2010 – Activity 9, 10, 22, 23, 37 & 38 and GNR 546 (Listing Notice 3), 18 June 2010 – Activity 13

Location: The site is situated along the R101 (becomes Thabo Mbeki street) just south-west of Mookgopong, Second Avenue (R519) in Mookgopong is about 600m north-east of the eastern corner of the site.

Date of Notice: 10 September 2014 – 20 October 2014

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project inquiries: **Anè Agenbacht**

P.O. Box 11375

Maroelana 0161

www.bokamoso.biz

Tel: (012) 346 3810

Fax: (086) 570 5659

E-mail: lizelleg@mweb.co.za



In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above **within 40 days of this Notice.**

LEBOMBO GARDEN BUILDING
36 LEBOMBO ROAD
ASHLEA GARDENS
0081

P.O. BOX 11375
MAROELANA
0181

Tel: (012) 346 3810
Fax: 086 570 5659
E-mail: lizelleg@mweb.co.za
Website: www.bokamoso.biz



Dear Landowner/Tenant

10 September 2014

You are hereby informed that Bokamoso Environmental Consultants were appointed (as EAP) by Mookgopong Square Ontwikkeling (Pty) Ltd to conduct the Basic Assessment in terms of the amended 2010 NEMA EIA Regulations for the proposed Mookgopong X10 (formerly known as Mookgopong X7) on Part of Portion 17 of the Farm Vlakfontein 522 KR.

The proposed Land-uses for the study area are as follows:

The proposed development is for a Shopping Centre and streets that will consist of the following uses: "Special" for Shops; Wholesale trade; Commercial uses; Offices; Medical consulting rooms; Restaurants; Places of amusement; Places of Instruction; Places of refreshment; Bakeries; Dry cleaners; Builders yard; Institution (provided that the Private Clinic is restricted to 13 beds); Dispensing chemist; Social hall; Vehicle sales lot and Hotel.

In terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing Basic Assessment Procedures (Notice 1 and 3 – Governing Notice R544 & R546) of the 2010 amended NEMA Regulations, the EAP must inform all landowners and tenants within 100m from the study area of the proposed development.

Bokamoso already supplied you (landowner/tenant) of the property within 100m with notification letter and request that you supply the contact details of any tenants or other interested and affected parties that reside or work on the property to Bokamoso. Bokamoso will then also supply these parties with the necessary notification letters.

Alternatively, you are also welcome to distribute copies of your notification to these parties. We will however require proof that you supplied the notices to the tenants, landowners, workers etc. Another option is to act as representative on behalf of these parties.

Please confirm (via email/fax) that you received the landowners/tenant notification and this letter. Also indicate in this confirmation letter whether you have tenants on your property and you're preferred method of tenant/worker notification.

Regards

.....
Lizelle Gregory/Juanita De Beer

REG NO: CK 2010/087490/23
VAT REG NO: 4080260872

MEMBER: Lizelle Gregory

BOKAMOSO LANDSCAPE ARCHITECTS AND ENVIRONMENTAL CONSULTANTS CC TRADING AS BOKAMOSO ENVIRONMENTAL

List of REGISTERED LETTERS
Lys van GEREГИSTREERDE BRIEWE
(With an insurance option/met 'n versekeringsopsie)



Post Office

Full tracking and tracing/Volledige volg en spoor

Name and address of sender
 Naam en adres van afsender: Bobanoso PO Box 11375,
Marcelona 0161,
Mookgopong X10

Track and Trace
 Toll free number
 Tolvry nommer
0800 111 502

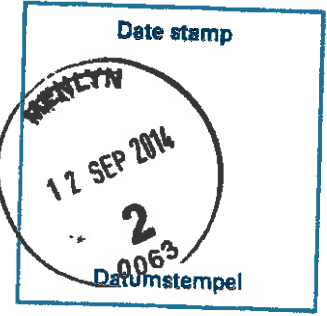
No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-klieftafskrif
1	Nulane Investments 121 P.O. BOX 2185, Nykström, 0510					<small>INSURANCE OPTION APPLIES TO REGISTERED LETTERS ONLY (opsie van versekeringsopsie slegs op geregistreerde briewe)</small> RD 885 058 147 ZA CUSTOMER COPY 301022R
2	Lorraine van Rooyen No.10 Platinum Palms, Pretorius Street, Makapane, 0601					
3						
4						
5						
6						
7						
8						
9						
10						
Number of letters posted Getal briewe gepos		Total Totaal	R	R	R	R

Signature of client
 Handtekening van klient: [Signature]

Signature of accepting officer
 Handtekening van aanneembeampte: [Signature]

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.



List of REGISTERED LETTERS
Lys van GEREGISTREERDE BRIEWE
 (With an insurance option/met 'n versekeringsopsie)



Post Office

Full tracking and tracing/Volledige volg en spoor

Name and address of sender **Bobanoso P.O. Box 11 375,**
 Naam en adres van afsender **Marceloná 0161**
Mookgopong X10

Insurance Tracking
 Toll-free number
 Tuilry nummer
0800 111 502

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld		
1	Mookgopong Square Ontwikkeling P.O. Box 5959, onverwacht, Limpopo, 0557						
2	Star Choice Trading 38 P.O. Box 1507, Naboomspruit, 0560						
3	Mphulasha Jan Martin P.O. Box 79, Koringpunt, Potgieterrus, Pietersburg, 0600						
4	Petrus Nicolaas Boduwe P.O. Box 274, Mookgopong, 0560						
5	Philip Mathys Maertert P.O. Box 13, Foundpark, 0787						
6	Pahama Properties 99 P.O. Box 718, Ferndale, 2160						
7	Smithas Properties P.O. Box 13655, Laudium, 0037						
8	Driekie Truter P.O. Box 256, Marble Hall, 0450						
9	Mpedi Pilwa P.O. Box 712, Mokolane, 0600						
10	And Hefer P.O. Box 357, Henley on Klip, 1962						
		Total	Totaal	R	R	R	R

Affix Track and Trace customer copy
Plak Volg-en-Spoor-Kliëntafskrif
POSTAGE TRACKING LIST 1 2014
 With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 249 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 031 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 045 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 059 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 062 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 218 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 221 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 076 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 080 ZA
CUSTOMER COPY 301020R
With a domestic insurance option
 ShortCall 0800 111 502 www.spcpa.co.za
RD 885 058 133 ZA
CUSTOMER COPY 301020R

Number of letters posted
 Getal briewe gepos
 Signature of client
 Handtekening van klient.....

Signature of accepting officer
 Handtekening van aanneembeampte.....

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

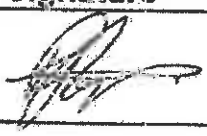
Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.

Date stamp

 Datumstempel

Mookgopong X10 Land owner Notification

Acknowledgement of Receipt of land owner notification concerning the proposed Mookgopong X10 project.

	Name	Address	Contact Details	Signature
1	<i>Parley</i>	<i>Walford</i>	Email: Fax: 06/23110334 Tel: 06/23110334	
2	<i>F Greyson</i>		Email: Fax: <i>06/2331636</i> Tel:	
3			Email: Fax: Tel:	
4			Email: Fax: Tel:	
5			Email: Fax: Tel:	
6			Email: Fax: Tel:	
7			Email: Fax: Tel:	
8			Email: Fax: Tel:	
9			Email: Fax: Tel:	
10			Email: Fax: Tel:	
11			Email: Fax: Tel:	
12			Email: Fax: Tel:	
13			Email: Fax: Tel:	
14			Email: Fax: Tel:	
15			Email: Fax: Tel:	

Appendix E3:
Proof of newspaper advertisement

Klein Kariba in Bela Bela rises from the ashes



The undercover swimming pool, after being damaged, heavily damaged. Photo: Justin Steyn



The undercover pool has been repaired and is ready for visitor's enjoyment. Photo supplied

Justin Steyn

The ATKV Klein Kariba holiday resort in Bela Bela officially reopened their doors to the public on Monday, 1 September.

The resort had been closed for the past six months due to the two freak floods which hit Bela Bela in short succession in March of this year.

It was reported that parts of the roads inside the resort had been swept away and caused damage to the electricity and sewage systems.

According to Wim de Wet, the resort's

manager, the flooding caused significant damage to various accommodation, entertainment and habitat areas of the resort.

"A large visitor's lapa next to the restaurant and 14 caravan parking places were flattened by the mass of water, and significant damage was caused to the restaurant, a number of flats and parts of the recreation areas," he said.

De Wet said that both floods were described as 'freak floods' by experts. He explained that all of the resort's

buildings had been built above the 100 year flood mark as required by law.

De Wet said that the first flood had been the most severe in 150 years in the area, and they were confident that the resort would be repaired within a month.

"We were full of confidence that it would be possible to reopen the resort within a month's time, when the second flood occurred on 13 March, exactly on the morning that the assessors, architects and quantity surveyors were on site to estimate the repairs that had to be done. The damage caused by the second flood totally queered the pitch for the ATKV to quickly reopen the resort. According to experts the second flood was the worst over the past 500 years in the Waterberg area," he said.

"Before the flood a small streamlet of mountain water ran to the dam lower down on the site, but the floods have ripped open a broad canal and carried away lawns, trees and bushes. Experts have decided to keep the canal formed by the flood waters, and to reinforce it with rock walls.

Consequently there is much more space for water to flow down to the dam. The walls of the dam have been reinforced, new roads have been constructed and a

new visitors' lapa has been built high above the current floodmark," he said.

It was also explained that none of the nearly 140 permanent staff members were affected by the flood and the closing of the resort. De Wet said that the time was used for further training, cleaning, reparations and upgrades to the resorts.

The costs of restorations are estimated to amount to more or less R50 million, but this is yet to be finalized.

On the day of the reopening the resort welcomed a group of school students at the environmental centre.

The resort also welcomed its first conference and its first wedding will take place during this month.

NOTICE OF BASIC ASSESSMENT PROCESS

Notice is given of an application for a **Basic Assessment Process** that was submitted to the Limpopo Department of Economic Development, Environment and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing **Basic Assessment Procedures (Listing Notice: 1 and 3 - Government Notice R544 & R546)** for the following activity:

Reference No: 12/1/9/1-W91

NEAS Reference No: LIM/EIA/0000928/2014

Project Name: Mookgopong X10 (formerly known as Mookgopong X7)

Project Description: On Part of Portion 17 of the Farm Vlakfontein 522 KR

Project Description: The proposed development is for a Shopping Centre and streets that will consist of the following uses: "Special" for Shops; Wholesale trade;

Commercial uses; Offices; Medical consulting rooms; Restaurants; Places of amusement; Places of instruction; Places of refreshment; Bakeries; Dry cleaners;

Builders yard; Institution (provided that the Private Clinic is restricted to 13 beds);

Dispensing chemist; Social hall; Vehicle sales lot and Hotel.

Using Activities Applied for: GNR 544 (Listing Notice 1), 18 June 2010 - Activity 9, 10, 22, 23, 27 & 38 and GNR 546 (Listing Notice 3), 18 June 2010 - Activity 13

Proponent Name: Mookgopong Square Ontwikkelings (Pty) Ltd

Location: The site is situated along the R101 (becomes Thabo Mbeki street) just south-west of Mookgopong, Second Avenue (R519) in Mookgopong is about 600m north-east of the eastern corner of the site.

Date of Notice: 10 September 2014 - 20 October 2014

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project inquiries: **Ana Agenbecht** : Tel: (012) 346 3810

P.O. Box 11375 : Fax: (084) 570 5459

Maroelana 0161 : E-mail: izelk@mwweb.co.za

www.bokamoso.biz

In order to ensure that you are identified as an interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above **within 40 days of this Notice.**

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Appendix E4:

Communication to and from persons
detailed in Point 2 and 3 above

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Thursday, September 11, 2014 1:32 PM
To: 'jgrobler@geoscience.org.za'; 'asalomon@sahra.org.za';
'maphata.ramphela@gauteng.gov.za'; 'central@eskom.co.za'; 'paia@eskom.co.za';
'schmidk@nra.co.za'; 'mmpshe@randwater.co.za'; 'nkoneigh@randwater.co.za';
'lindiwe111@gmail.com'; 'loveous.tampane@transnet.net';
'Selemele.M@agric.limpopo.gov.za'; 'maint.dr@vodamail.com'
Subject: Errata - Mookgopong X10 - Public Participation Process
Attachments: Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Errata Public Notice regarding the proposed Mookgopong X10 Project.

Sorry for the inconvenience.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita [mailto:user3@bokamoso.net]
Sent: 10 September 2014 04:05 PM
To: 'jgrobler@geoscience.org.za'; 'asalomon@sahra.org.za'; 'maphata.ramphela@gauteng.gov.za'; 'central@eskom.co.za';
'paia@eskom.co.za'; 'schmidk@nra.co.za'; 'mmpshe@randwater.co.za'; 'nkoneigh@randwater.co.za';
'lindiwe111@gmail.com'; 'loveous.tampane@transnet.net'; 'Selemele.M@agric.limpopo.gov.za'; 'maint.dr@vodamail.com'
Subject: Mookgopong X10 - Public Participation Process

Dear Interested and/or Affected Party Member,

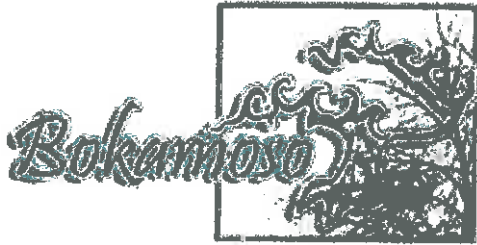
Please refer to the attached Public Notice regarding the proposed **Mookgopong X10** Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Thursday, September 11, 2014 2:00 PM
To: 'Judwateren@bsblaw.co.za'
Subject: Mookgopong X10 - Public Participation Process
Attachments: Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

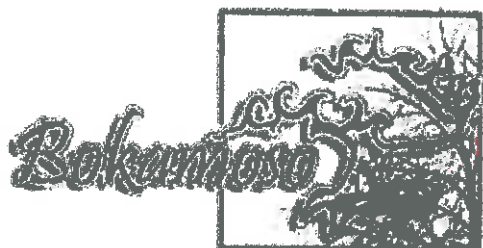
Please refer to the attached Public Notice regarding the proposed Mookgopong X10 Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizolleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita [<mailto:user3@bokamoso.net>]
Sent: 10 September 2014 04:05 PM
To: 'jgrobler@geoscience.org.za'; 'asalomon@sahra.org.za'; 'maphata.ramphela@gauteng.gov.za'; 'central@eskom.co.za'; 'paia@eskom.co.za'; 'schmidk@nra.co.za'; mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za'; 'lindiwe111@gmail.com'; loveous.tampame@transnet.net; Selemela.M@agric.limpopo.gov.za; 'maint.dr@vodamail.com'
Subject: Mookgopong X10 - Public Participation Process

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the proposed *Mookgopong X10* Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3310 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Monday, September 22, 2014 3:54 PM
To: 'TshivhaseSP@ral.co.za'
Subject: Mookgopong X10 - Public Participation Process
Attachments: Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

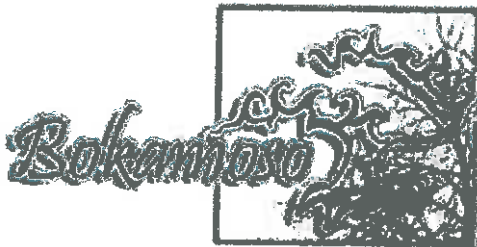
Please refer to the attached Public Notice regarding the proposed Mookgopong X10 Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita [<mailto:user3@bokamoso.net>]

Sent: 10 September 2014 04:05 PM

To: 'jgrobier@geoscience.org.za'; 'asalomon@sahra.org.za'; 'maphata.ramphela@gauteng.gov.za'; 'central@eskom.co.za'; 'paia@eskom.co.za'; 'schmidk@nra.co.za'; mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za'; 'lindiwe111@gmail.com'; loveous.tampane@transnet.net; Selemela.M@agric.limpopo.gov.za; 'maint.dr@vodamail.com'

Subject: Mookgopong X10 - Public Participation Process

Dear Interested and/or Affected Party Member,

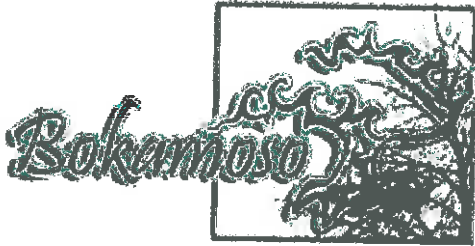
Please refer to the attached Public Notice regarding the proposed **Mookgopong X10** Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleq@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Thursday, September 11, 2014 1:44 PM
To: KobeL@dwaf.gov.za; 'neethlx@eskom.co.za'; 'motsisl@eskom.co.za'; 'kumen.govender@gauteng.gov.za'; 'normann@lepelle.co.za'; 'tamaphoto@ruraldevelopment.gov.za'; 'susans@ncc-group.co.za'
Subject: Mookgopong X10 - Public Participation Process
Attachments: Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the proposed Mookgopong X10 Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mwab.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita [<mailto:user3@bokamoso.net>]
Sent: 10 September 2014 04:05 PM
To: 'jgrobler@geoscience.org.za'; 'asalomon@sahra.org.za'; 'maphata.ramphele@gauteng.gov.za'; 'central@eskom.co.za'; 'paia@eskom.co.za'; 'schmidk@nra.co.za'; mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za'; 'lindiwe111@gmail.com'; loveous.tampane@transnet.net; Selemela,M@agric.limpopo.gov.za; 'maint.dr@vodamail.com'
Subject: Mookgopong X10 - Public Participation Process

Dear Interested and/or Affected Party Member,

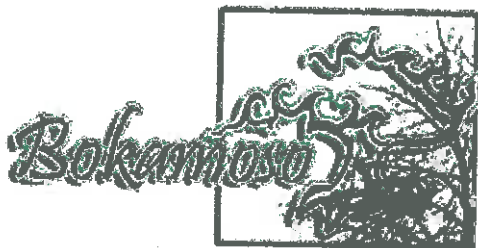
Please refer to the attached Public Notice regarding the proposed **Mookgopong X10** Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mwweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Wednesday, September 10, 2014 4:08 PM
To: KobeL@dwaf.gov.za; 'kumen.govender@gauteng.gov.za'
Subject: Mookgopong X10 - Public Participation Process
Attachments: Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the proposed *Mookgopong X10* Project.

I would appreciate if you can assist me with the correct contact person in the Limpopo area (Mookgopong).

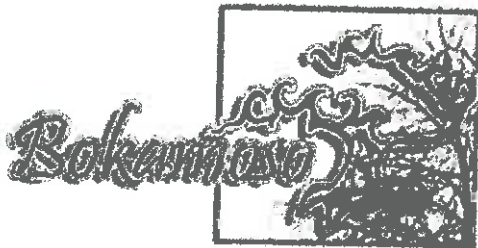
Hope this finds you well.

Thank you.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@web.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Wednesday, September 10, 2014 4:05 PM
To: 'jgrobler@geoscience.org.za'; 'asalomon@sahra.org.za';
'maphata.ramphele@gauteng.gov.za'; 'central@eskom.co.za'; 'paia@eskom.co.za';
'schmidk@nra.co.za'; mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za';
'lindiwe111@gmail.com'; loveous.tampane@transnet.net;
Subject: Selemela.M@agric.limpopo.gov.za; 'maint.dr@vodamail.com'
Attachments: Mookgopong X10 - Public Participation Process
Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

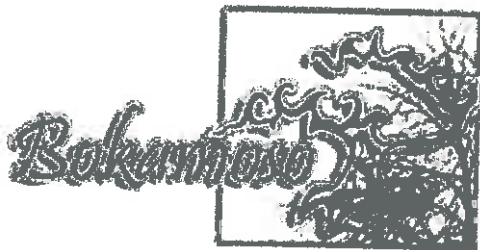
Please refer to the attached Public Notice regarding the proposed **Mookgopong X10** Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleq@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Wednesday, November 26, 2014 3:26 PM
To: 'stephweb@mweb.co.za'
Subject: RE: Mookgophong x 7 EIA
Attachments: Public Notice BA.pdf

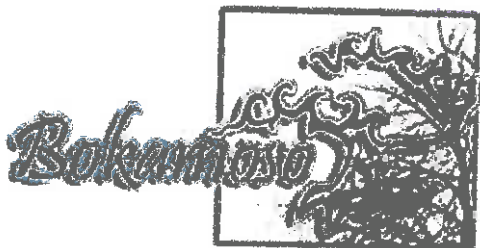
Dear Stephanie,

Please refer to the attached Public Notice that we have distributed to all the I&APs in the 100m radius.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleq@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita [mailto:user3@bokamoso.net]
Sent: 26 November 2014 09:28 AM
To: 'stephweb@mweb.co.za'
Subject: RE: Mookgophong x 7 EIA

Dear Stephanie Cliff,

Thank you for your response, we have registered you as Interested and/or Affected Party Member for the proposed Mookgopong X10 Project.

We will send you the Background Information Document (BID) as soon as it's available.

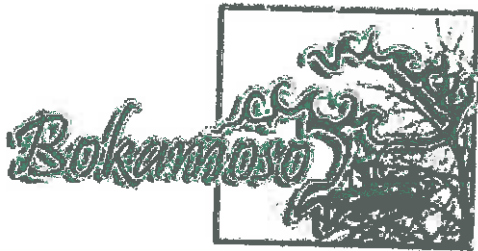
We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Stephanie Cliff [<mailto:stephweb@mweb.co.za>]
Sent: 25 November 2014 03:10 PM
To: 'Bokamoso'
Subject: Mookgophong x 7 EIA

Dear Lizelle,

Mr Gert Erasmus has appointed me to assist with the re-application of an EIA on Portion 20 of the farm vlakfontein, mookgophong.

He has informed me that you are conducting the EIA adjacent to this site, and that PPP has already commenced.

Pls send me the BID for this project, and register me on the database to be kept informed.

All the Best,

STEPHANIE CLIFF

SEEDCRACKER ENVIRONMENTAL CONSULTING

Environmental Assessment Practitioner

BSc (Hons) Animal Science, BSc (Hons) Wildlife Management

Tel: 012 654 5970 • Cell: 082 626 4117 • Fax: 086 518 4885 • P O Box 12460 Clubview 0014

WWW.SEEDCRACKER.CO.ZA

*Please note that SEC will be closing for annual holidays on the **12th of December 2014** and will re-open again on **Tuesday the 15th of January 2015**.*

Thank you to all my clients for your valued support throughout the year. I wish you a very enjoyable festive season and an exciting new year!

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Wednesday, November 26, 2014 9:28 AM
To: 'stephweb@mweb.co.za'
Subject: RE: Mookgophong x 7 EIA

Dear Stephanie Cliff,

Thank you for your response, we have registered you as Interested and/or Affected Party Member for the proposed Mookgopong X10 Project.

We will send you the Background Information Document (BID) as soon as it's available.

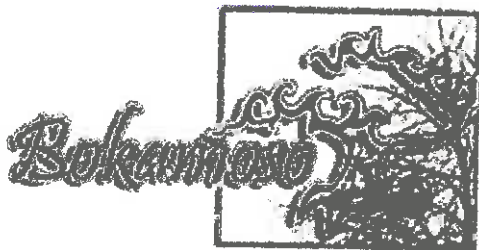
We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Stephanie Cliff [<mailto:stephweb@mweb.co.za>]
Sent: 25 November 2014 03:10 PM
To: 'Bokamoso'
Subject: Mookgophong x 7 EIA

Dear Lizelle,

Mr Gert Erasmus has appointed me to assist with the re-application of an EIA on Portion 20 of the farm vlakfontein, mookgopong.

He has informed me that you are conducting the EIA adjacent to this site, and that PPP has already commenced.

Pls send me the BID for this project, and register me on the database to be kept informed.

All the Best,

STEPHANIE CLIFF

SEEDCRACKER ENVIRONMENTAL CONSULTING

Environmental Assessment Practitioner

BSc (Hons) Animal Science, BSc (Hons) Wildlife Management

Tel: 012 654 5970 • Cell: 082 626 4117 • Fax: 086 518 4885 • P O Box 12460 Clubview 0014

WWW.SEEDCRACKER.CO.ZA

*Please note that SEC will be closing for annual holidays on the **12th of December 2014** and will re-open again on **Tuesday the 15th of January 2015**.*

Thank you to all my clients for your valued support throughout the year. I wish you a very enjoyable festive season and an exciting new year!

Meriam

From: Bokamoso <lizelle@mweb.co.za>
Sent: Monday, November 17, 2014 11:05 AM
To: nkumalo@sahra.org.za
Subject: RE: Mookgopong X10

Good morning Nokukhanya

Bokamoso is currently busy compiling the DBAR which will be made available to all stakeholders and I&APs once available. We will keep you updated regarding the progress made in this regard.

Trust you find the above in order.

Kind regards,

Anè Agenbacht

Senior Environmental Assessment Practitioner / Manager

Tel: 012-346 3810

Cell: 083 533 0420

Email: lizelle@mweb.co.za (Attention: Anè)



Landscape Architects &
Environmental Consultants

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Nokukhanya Khumalo [mailto:nkhumalo@sahra.org.za]
Sent: 17 November 2014 10:27 AM
To: lizelle@mweb.co.za
Subject: Mookgopong X10

Good Morning Ms Lizelle

This email concerns the case application ID 6411 Mookgopong X10.

May you please upload any environment information for this case this may be BID, BAR, EIA or EMP, we need more substantiating information that the PP notice that was uploaded to this case.

Kind Regards,
Nokukhanya Khumalo

Meriam

From: Juanita <user3@bokamoso.net>
Sent: Tuesday, November 25, 2014 10:36 AM
To: 'philip@urgeneg.co.za'
Subject: RE: Notice of Basic Assessment Process: Mookgopong X10

Dear Philip Mostert,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Mookgopong X10 Project.

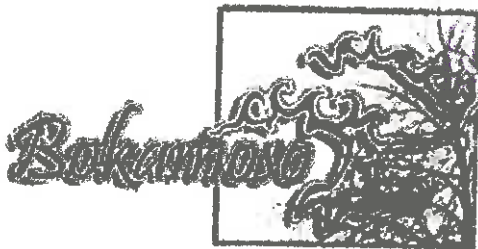
We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Philip [<mailto:philip@urgeneg.co.za>]
Sent: 25 November 2014 09:17 AM
To: lizelleg@mweb.co.za
Subject: Notice of Basic Assessment Process: Mookgopong X10

Good day,

I've just received the above notice dated 10 September 2014. I would like you to register me as an Interested and Affected Party. I do not have tenants on my property.

Please contact me if you require any further information.

Regards

Philip Mostert

Urgent Negotiators Enterprises CC t/a URGENEG

Cell nr: 083 679 5679

Office Tel nr: (015) 291 4082

Fax2Mail: 086 546 5082

Website: www.urgeneg.co.za

Appendix E5:
**Minutes of any public and or
stakeholder meetings**

N/A

**Appendix E6:
Comments and Response Report**

COMMENT AND RESPONSE REPORT-

FOR THE PROPOSED MOOKGOPONG X10

Issue	Commentator	Response
<p>Mr Gert Erasmus has appointed me to assist with the re-application of an EIA on Portion 20 of the farm Viakfontein, Mookgopong.</p> <p>He has informed me that you are conducting the EIA adjacent to this site, and that PPP has already commenced. Please send me the BID for this project, and register me on the database to be kept informed.</p>	<p>Stephanie Cliff stephweb@mweb.co.za</p>	<p>Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Mookgopong X10 Project.</p> <p>We will send you the Background Information Document (BID) as soon as it's available.</p> <p>We will keep you updated regarding the process in the future.</p>

Appendix E7:
Comments from I&APs on Basic
Assessment (BA) Report

N/A

Appendix E8:

Comments from I&APs on
amendments to the BA report

N/A

Appendix E9:
Copy of the register of I&APs

Nr	Registered Parties	Contact details
Stakeholders		
1	Council Geo-Science	igrobler@geoscience.org.za
2	LIHRA - Sahra Limpopo	asalomon@sahra.org.za
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Appendix E10:
Comments from I&APs on the
application

N/A

Appendix E11:

Other

**ANNEXURE F:
ENVIRONMENTAL
MANAGEMENT PROGRAMME**



1. Project Outline

1.1 Background

Bokamoso Landscape Architects and Environmental Consultants was appointed by the **Mookgopong Square Ontwikkelings (Pty) Ltd** to compile an Environmental Management Plan for the development of a Shopping centre on a Portion of Portion 17 of the farm Vlakfontein 522 KR, Mookgopong, Limpopo Province. The Report has been prepared to comply with Section 34 of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998).

1.2 Project description

The development entails the construction of a Shopping centre, streets, and parking area on land zoned as "Special" for shops, wholesale trade, commercial uses, offices, medical consulting rooms, restaurants, places of amusement, places of instruction, bakeries, dry cleaners, builders' yard, private clinic, dispensing chemist, social hall, vehicle sales lot, and hotel.

It is furthermore also the intention of the applicant to withdraw water from two boreholes to be drilled on site, in order to augment potable water supply, as the possibility of water supply interruptions exists due to Mookgopong water infrastructure being outdated.

The development of the Shopping centre will provide temporary job opportunities during the construction phase, but will have a significant impact on the social as well as economic environments of the Mookgopong Local Municipality during the operational phase due to

generating 902 permanent job opportunities, in so doing reducing Mookgophong unemployment by 7.5%. The Shopping centre will also contribute to the GGP, provide additional Tax revenue for the Municipality, whilst also building social and economic infrastructure. The proposed development is thus in line with the Mookgophong Integrated Development Plan 2012-2017 (2013/2014 Review).

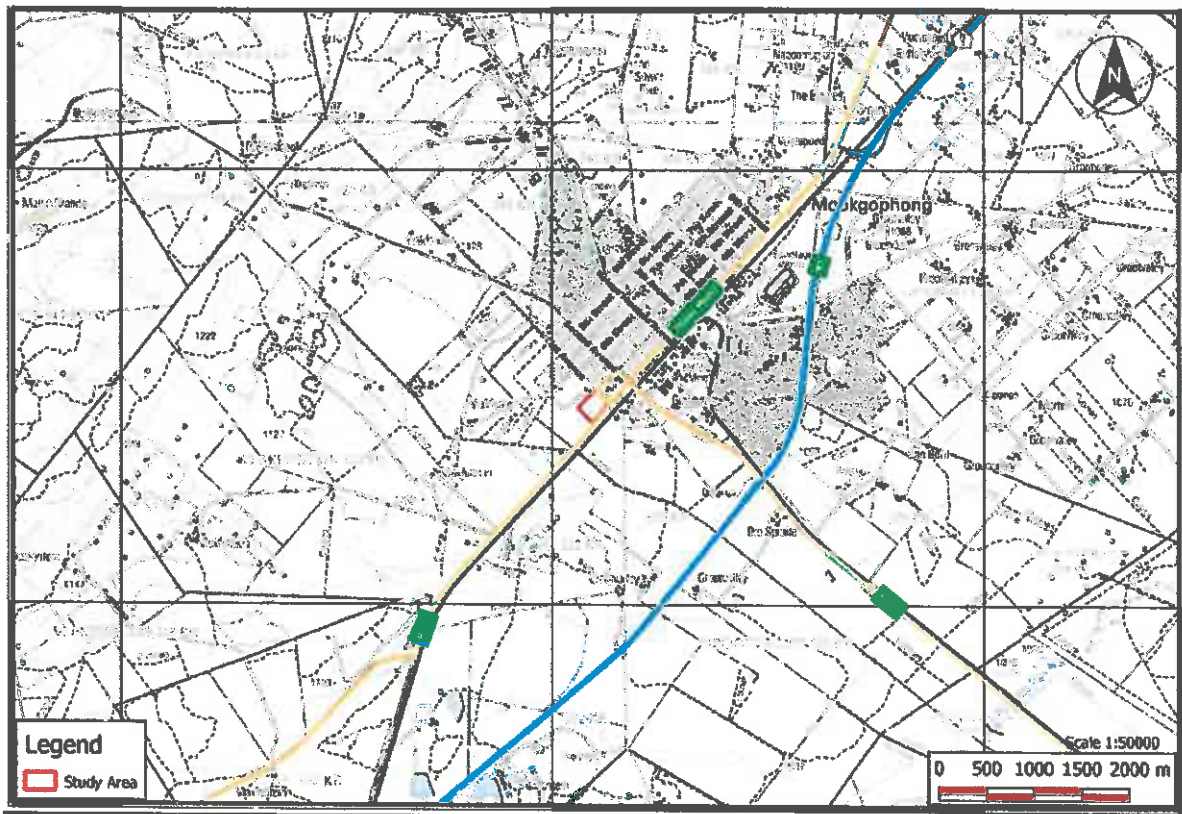


Figure 1: Locality map



Figure 2: Aerial map

The EMP will be a binding document for purposes of compliance.

1.3 Receiving Environment

Geology:

- The surrounding area is underlain by volcanic rock or sandstone of the Lethaba Formation of the Karoo Supergroup.
- The agricultural potential of the site is high; however the site is not utilized for agricultural purposes, but is currently vacant.
- No indication of the presence of soluble rock (dolomite).

Hydrology:

- The site is not affected by a 1:100 year flood line.
- Stormwater from adjacent properties to the north and west drain into a stormwater retention pond situated on site.
- The Stormwater retention pond comprises a large portion of the development site.
- Stormwater from the Shopping centre will drain by means of sheet flow southwards into an existing open channel running parallel to the R101.

Geohydrology:

- Groundwater seepage was not encountered in any of the test pits excavated at the site.

Wetlands:

- No wetlands are present within the development site.

Fauna and flora:

- The study area falls within a Savanna Biome represented by Springbokvlakte Thornveld.
- No protected flora species have been recorded on the development site.
- A few red data mammal species were recorded on the development site during an ecological survey conducted in 2006.

Agricultural:

- The study area comprises of arable land, but is currently vacant.

Cultural /Historical:

- There exists no evidence of cultural/historical/archaeological finds on the proposed development site.

Noise:

- Due to the development site being located next to a residential area, construction activities shall be limited to daytime hours from Monday to Saturday only.

Air Pollution

- It is not foreseen that dust pollution will be a concern due to the development site being situated downwind from Mookgopong and there being no wind during 50% of the year.

Traffic:

- Construction activities might have an impact on Mookgopong traffic, but access to site will be from 1st Avenue and not from the R101 which is the main access route through town.

Erosion and loss of topsoil:

- Topsoil removed prior to construction commencing must be stockpiled in designated areas and protected from washing away during flood events, or being damaged by heavy mobile plant.
- Topsoil must be returned to areas where it was removed from upon completion of construction activities for the purpose of rehabilitation.

Rehabilitation:

- Rehabilitated areas should be hydro seeded with Springbokvlakte Thornveld grass species.
- Artificial landscaping should be avoided and the natural vegetation retained as far as possible.

Domestic waste:

- Domestic waste should be temporarily stored in a designated non-sensitive area, away from natural drainage lines.
- Domestic waste to be disposed of at the Mookgopong registered Class GSB landfill site.

Land claims:

- The developer has informed the Polokwane Land claims commissioner of the intended development.

Potable water supply:

- The Mookgopong Municipality confirmed that sufficient water is available from a 160mm pipe running parallel with First Avenue to the north-east of the site boundary.
- Interruption of water supply might occur due to old infrastructure, and therefore the developer intends on sinking two boreholes to supplement Municipal water supply.

Sanitation:

- 35kl of sewage will be generated from the proposed development per day.
- There is an existing 160mm sewerage line running along the north-eastern portion of 1st Avenue on the opposite side of the road i.e. eastern side. The invert level is higher than that of the proposed development and therefore a pump station and a road crossing will be required as part of the development.
- A pre-digestion three-chamber will be constructed on the development site for sewage to be treated to grey water. Grey water will then be pumped to an elevated chamber from where the sewage will gravitate into the existing sewer line situated in 1st Avenue.
- Due to pre-digestion the development will not impose the full load of raw sewage on the Municipal Sewage Treatment Works.

Fire reticulation:

- On site storage tanks will be installed for firefighting purposes, but will also serve as backup in case of interruption of potable water supply.
- The capacity of the storage tanks will be determined by a fire specialist.
- A 110mm class 16 uPVC pipe has to be installed for the fire reticulation system.

Stormwater management:

- A large portion of the development site is occupied by a storm water retention pond, previously serving as borrow pit. The retention pond will be drained and filled to form part of the proposed development.

- Storm water for new developments situated to the north west of the site currently drain into the pond via an open channel running along 1st Avenue. This channel will be upgraded and extended southwards parallel with 1st Avenue to an existing four cell culvert underneath Thabo Mbeki Street (R101) towards the railway reserve. Prior to the storm water reaching Thabo Mbeki Street the volume of storm water will be split into two, half to discharge into the culvert and the remaining half into the existing side drain along Thabo Mbeki Street. This side drain will be upgraded to a point where it crosses Thabo Mbeki Street by means of a culvert.
- Storm water from the site will drain by means of sheet flow towards the existing side drain running parallel to the R101.

2. EMP Objectives and Context

2.1 Objectives

The objectives of this plan are to:

- Identify the possible environmental impacts of the proposed activities;
- Develop measures to minimise, mitigate and manage these impacts;
- Meet the requirements of the anticipated Record of Decision of LDEDET and of other Authorities; and
- Monitor the project.

2.2 EMP Context

This EMP fits into the overall planning process of the project by carrying out the conditions of consent set out by the LDEDET. In addition, all mitigation

measures recommended in the Environmental Impact Assessment Report are included in the EMP.

This EMP addresses the following phases of the proposed water infrastructure development:

- Pre-construction planning phase;
- Construction phase;
- Rehabilitation phase; and
- Operational phase.

3. Monitoring

In order for the EMP to be successfully implemented all the role players involved must have a clear understanding of their roles and responsibilities in the project.

These role players may include the Authorities (A), other Authorities (OA), Developer (D)/ Proponent (P), Environmental Control Officer (ECO), Project Manager (PM), Contractors (C), Environmental Assessment Practitioner (EAP) and Environmental Site Officer (ESO). The Landowners, Interested and Affected Parties (I&APs) and the relevant Environmental and project specialists are also important role players.

3.1 Roles and Responsibilities

Developer (D)/Proponent (P)

The developer/proponent is ultimately accountable for ensuring compliance with the EMP and conditions contained in the RoD. The developer must appoint an independent Environmental Control Officer (ECO), for the duration of the pre-construction and construction phases, to ensure compliance with the requirements of this EMP. The developer must ensure that the ECO is integrated as part of the project team.

Project Manager (PM)

The project Manager is responsible for the coordination of various activities and ensures compliance with this EMP through delegation of the EMP to the contractors and monitoring of performance as per the Environmental Control Officer's monthly reports.

Environmental Control Officer (ECO)

An independent Environmental Control Officer (ECO) shall be appointed by Mookgopong Square Ontwikkelings (Pty) Ltd, for the pre-construction, construction and rehabilitation phase of Shopping centre development, to ensure compliance with the requirements of this EMP.

- The Environmental Control Officer shall ensure that the contractor is aware of all the specifications pertaining to the project;
- Any damage to the environment must be repaired as soon as possible after consultation between the Environmental Control Officer, Consulting Engineer and Contractor;

- The Environmental Control Officer shall ensure that the developer staff and/or contractor are adhering to all stipulations of the EMP;
- ECO must audit the site weekly during construction and report monthly and send monthly reports to LDEDET.
- The Environmental Control Officer shall be responsible for monitoring the EMP throughout the project by means of site visits and meetings. This should be documented as part of the site meeting minutes;
- The Environmental Control Officer shall be responsible for the environmental training program;
- The Environmental Control Officer shall ensure that all clean up and rehabilitation or any remedial action required, are completed prior to transfer of properties; and
- A post construction environmental audit is to be conducted to ensure that all conditions in the EMP have been adhered to.

Contractor (C):

The contractor shall be responsible for ensuring that all activities on site are undertaken in accordance with the environmental provisions detailed in this document and that sub-contractor and laborers are duly informed of their roles and responsibilities in this regard.

The contractor will be required, where specified to provide Method Statements setting out in detail how the management actions contained in the EMP will be implemented.

The contractor will be responsible for the cost of rehabilitation of any environmental damage that may result from non-compliance with the environmental regulations.

Environmental Site Officer (ESO):

The ESO is appointed by the developer as his/her environmental representative to monitor, review and verify compliance with the EMP by the contractor. The ESO is not an independent appointment but must be a member of the contractor's management team. The ESO must ensure that he/she is involved at all phases of the construction (from site clearance to rehabilitation).

Authority (A):

The authorities are the relevant environmental department that has issued the Environmental Authorization. The authorities are responsible for ensuring that the monitoring of the EMP and other authorization documentation is carried out by means of reviewing audit reports submitted by the ECO and conducting regular site visits.

Other Authorities (OA):

Other authorities are those that may be involved in the approval process of the EMP or related applications such as water supply application to be submitted to Mookgopong Local Municipality.

Environmental Assessment Practitioner (EAP):

According to Section 1 of NEMA the definition of an environmental assessment practitioner is "the individual responsible for the planning, management and coordination of environmental impact assessments,

strategic environmental assessments, environmental management plans or any other appropriate environmental instruments through regulations".

3.2 Lines of Communication

The Environmental Control Officer in writing should immediately report any breach of the EMP to the Project Manager. The Project Manager should then be responsible for rectifying the problem on-site after discussion with the contractor. Should this require additional cost, then the developer should be notified immediately before any additional steps are taken.

3.3 Reporting Procedures to the Developer/Proponent

Any pollution incidents must be reported to the Environmental Control Officer immediately (within 12 hours). The Environmental Control Officer shall report to the Developer on a regular basis (site meetings).

3.4 Site Instruction Entries

The site instruction book entries will be used for the recording of general site instructions as they relate to the works on site. There should be issuing of stop work order for the purposes of immediately halting any activities of the contractor that may pose environmental risk.

3.5 ESO (Environmental Site Officer) Diary Entries

Each of these books must be available in duplicate, with copies for the Engineer and Environmental Site Officer. These books should be available

to the authorities for inspection or on request. All spills are to be recorded in the Environmental Site Officer's diary.

3.6 Methods Statements

Methods statements from the contractor will be required for specific sensitive actions on request of the authorities or ECO. All method statements will form part of the EMP documentation and are subject to all terms and conditions contained within the EMP document. For each instance where it is requested that the contractor submit a method statement to the satisfaction of ECO, the format should clearly indicate the following:

- What - a brief description of the work to be undertaken;
- Who – who will be responsible for executing the work;
- Where - a description/sketch map of the locality of work; and
- How - a detailed description of the process of work, methods and materials to be used;
- When - the sequencing of actions with due commencement dates and completion date estimate.

The contractor must submit the method statement before any particular construction activity is due to start. Work may not commence until the method statement has been approved by the ECO.

3.7 Record Keeping

All records related to the implementation of this management plan (e.g. site instruction book, ESO dairy, methods statements etc.) must be kept together in an office where it is safe and can be retrieved easily. These records should be kept for two years at any time be available for scrutiny by any relevant authority.

4. Applicable legislation

4.1 National Environmental Management Act, 1998 (Act No. 107 of 1998)

The NEMA is primarily an enabling Act in that it provides for the development of environmental implementation plans and environmental management plans. The principles listed in the Act serve as a general framework within which environmental management and implementation plans must be formulated.

The principles in essence state that environmental management must place people and their needs at the forefront of its concern and that development must be socially, environmentally and economically sustainable.

Impact on proposed activity:

Significant – The application for the proposed development relates to activities listed under Notice **No.R544 & R546**, therefore a Basic Assessment Report is being submitted to the Limpopo Department of Economic Development, Environment and Tourism for consideration.

4.2 National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004)

The purpose of the Act is "To reform the law regulating air quality in order to protect the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development while promoting justifiable economic

and social development; to provide for national norms and standards regulating air quality monitoring, management and control by all spheres of government; for specific air quality measures; and for matters incidental thereto."

Impact on proposed activity:

Not significant – During the construction phase of the proposed development clearing will be required where the proposed development will be constructed. The expected impact of dust pollution on the environment and community is expected to be very low due to the main wind direction being easterly i.e. away from town which is situated north-east of the development site, and due to no wind occurring for almost half of the year. The potential impact has however been addressed in the draft EMP.

4.3 National Environmental Management Waste Act, 2008 (Act No. 59 of 2008)

The Act provides for regulating waste management in order to protect health and the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development.

Impact on proposed activity:

Significant – The construction and operation of the proposed development are not subject to any activity as listed in Category A, B or C of NEM: WA Listed Activities, 2013.

However general waste will be generated during the construction as well as operational phase of the proposed development, and the potential impact has been addressed in the draft EMP.

The developer will have to enter into a service agreement with the local authority for domestic waste removal during the operational phase of the development.

4.4 National Environmental Management: Protected Areas Act, 2003 (Act No. 57 of 2003)

The purpose of this Act is to provide for the protection, conservation, and management of ecologically viable areas representative of South Africa's biological biodiversity and its natural landscapes.

Impact on proposed activity:

Not significant – The proposed development does not form part of a protected area.

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

The Act provides for the management and conservation of South Africa's biodiversity within the framework of the National Environmental Management Act 10 of 2004; the protection of species and ecosystems that warrant national protection; the sustainable use of indigenous biological resources; the fair and equitable sharing of benefits arising from bio-prospecting involving indigenous biological resources; the

establishment and functions of a South African National Biodiversity Institute; and for matters connected therewith.

As part of the implementation strategy, the National Spatial Biodiversity Assessment was developed.

Impact on proposed activity:

Significant – Of the 49 indigenous mammal species recorded on site during a fauna survey conducted in 2006, five are Red data mammal species.

No Red or orange listed flora species were recorded during a vegetation survey conducted in 2006.

4.6 The National Water Act, 1998 (Act No. 36 of 1998)

The purpose of this Act is to ensure that the nation's water resources are protected, used, developed, conserved, managed and controlled in ways that take into account, amongst other factors, the following:

- Meeting the basic human needs of present and future generations;
- Promoting equitable access to water;
- Promoting the efficient, sustainable and beneficial use of water in the public interest;
- Reducing and preventing pollution and degradation of water resources;
- Facilitating social and economic development; and
- Providing for the growing demand for water use.

Impact on proposed activity:

Significant – The proposed development is not situated within a 1:100 flood line, but the developer intends on sinking two boreholes on site in order to augment Municipal water supply. If water to be abstracted will exceed 1m³/day, a water use license has to be submitted to the Department of Water Affairs, as the volume of water abstracted will exceed that stipulated (75m³ per hectare per annum) for the quaternary drainage region A61D, and therefore is not covered by the General Authorization.

It is expected that a Water Use Licence process will be followed due to the borehole abstraction and a sewerage treatment package plant.

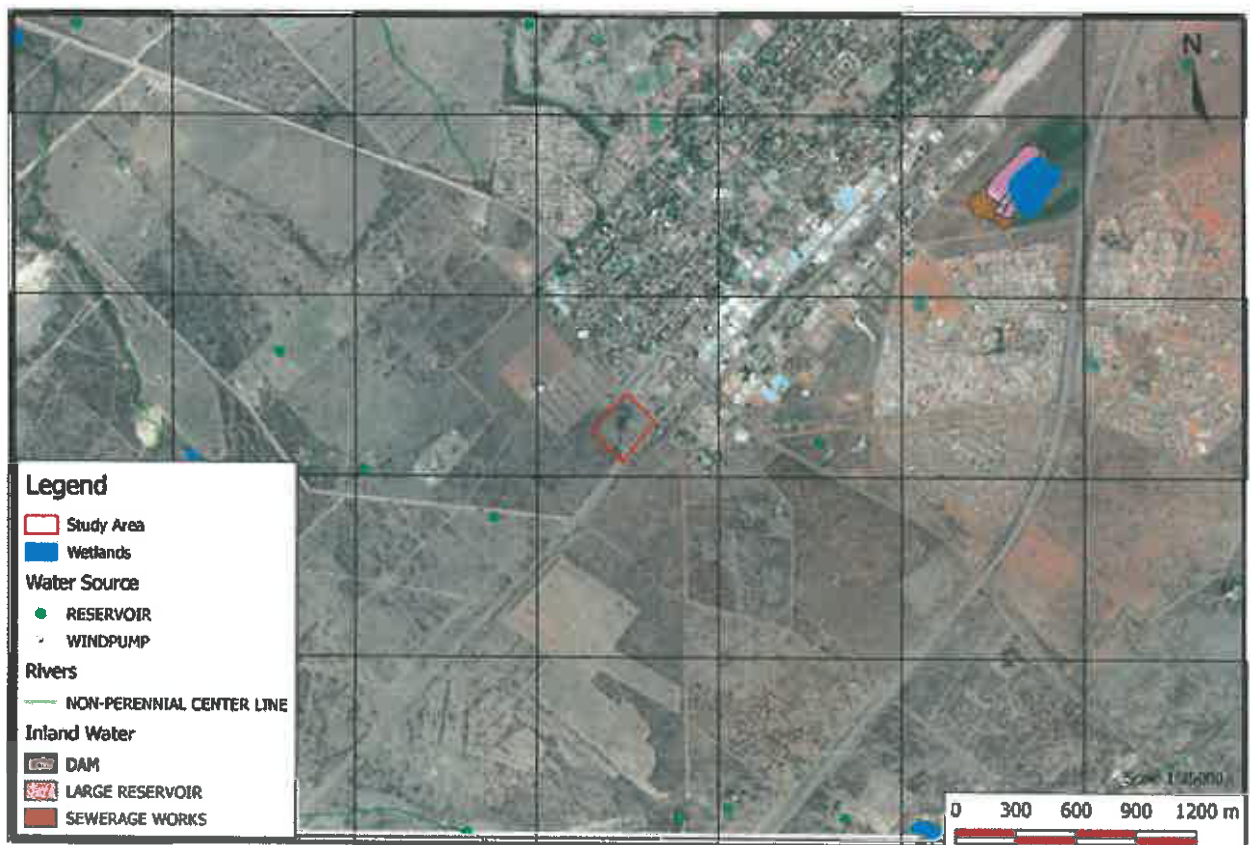


Figure 3: Hydrology map

4.7 The Water Services Act, 1997 (Act No. 108 of 1997)

The provide for the rights to access basic water supply and basic sanitation; to provide for setting of national standards and of norms and standards for tariffs; to provide for water services development plans; to provide a regulatory framework for water services institutions and water services intermediaries; etc.

Impact on proposed activity:

Significant – Mookgopong Local Municipal as the water services authority confirmed that it has sufficient spare water capacity for the proposed development. The line will run parallel with First Avenue, the north eastern site boundary of the site. The developer will have to enter into a bulk services agreement with the Local Municipality.

4.8 National Heritage Resources Act, 1999 (Act No. 25 of 1999)

The NHRA requires Heritage Resources Impact Assessments for various categories of development stipulated in Section 38 of the Act. It also provides for the grading of heritage resources and the implementation of a three-tier level of responsibilities and functions for heritage resources to be undertaken by the national and Provincial Authorities, depending on the grade of the heritage resource. The Act defines cultural significance, archaeological and paleontological sites and materials (section 35), historical sites and structures (section 34), and graves and burial sites (section 36) that fall under its jurisdiction. Archaeological sites and material are generally those resources older than a hundred years, including gravestones and grave dressing. Procedures for managing graves and burial grounds are set out in Section 36 of the NHRA. Graves older than 100

years are legislated as archaeological sites and must be dealt with accordingly.

Section 38 of the NHRA makes provision for application by developers for permits before any heritage resource may be damaged or destroyed.

Impact on proposed activity:

Not significant – Both SAHRA and LIHRA were notified of the proposed development. LIHRA requested additional information pertaining to the project.

No obvious features, sites, or artefacts of cultural significance were identified within the proposed land development area.

If any remains/cultural/historical finds are exposed or uncovered during the construction phase, it should immediately be reported to the Limpopo Heritage Resources Agency (SAHRA). Burial remains should not be disturbed or removed until inspected by an archaeologist. Refer to draft EMP.

4.9 Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983)

This Act provides for control over the utilization of the natural agricultural resources of the Republic in order to promote the conservation of the soil, the water sources, the vegetation and the combating of weeds and invader plants; and for matters connected therewith.

Impact on proposed activity:

Significant – According to the South African Agricultural Potential Atlas, the study area comprises of arable agricultural land.

4.10 National Veldt and Forest Fire Act, 1998 (Act No. 101 of 1998)

The purpose of this Act is to prevent and combat veldt, forest, and mountain fires throughout the Republic. The Act provides for a variety of institutions, methods, and practices for achieving the prevention of fires.

Impact on proposed activity:

Significant – Construction workers might smoke or make fire on site which poses a fire risk to surrounding small holdings as well as residents of town due to the development sites close proximity to Mookgopong.

4.11 Restitution of Land Rights Act, 1994 (Act No. 22 of 1994) and Restitution of Land Rights Amendment Act, 2014 (Act No. 15 of 2014)

The Act provides for the restitution of rights in land to persons or communities dispossessed of such rights after 19 June 1913 as a result of past racially discriminatory laws or practices; to establish a Commission on Restitution of Land Rights and a Land Claims Court; and to provide for matters connected therewith.

Impact on proposed activity:

Significant - The developer has informed the Limpopo land claims commissioner of the intended development.

4.12 National Road Traffic Act, 1996 (Act No. 93 of 1996)

This Act provides for all road traffic matters, which shall apply uniformly throughout the Republic and for matters connected therewith.

Impact on proposed activity:

Significant – Considering the location of the proposed development site adjacent to the Provincial R101 it is foreseen that construction activities might have an impact on the traffic flow. Access to the proposed Shopping centre will be gained via 1st Avenue. The Developer has to cater for safe access to and from the proposed Shopping centre.

The Roads Agency Limpopo has been informed of the proposed development and a Traffic Impact Study has been conducted.

4.13 The Deeds Registries Act, 47 of 1937

The Act was created to consolidate and amend the laws in force in the Republic relating to the Registration of deeds. The act caters for the registration of servitudes.

Impact on proposed activity:

Significant - Considering the proposed bulk services (water/sewerage/electricity) will transect properties not belonging to the applicant or the Municipality, the applicant/Municipality might have to register servitude for the proposed development.

4.14 Local Government Municipal Systems Act, 2000 (Act No. 32 of 2000)

This Act was introduced to provide for the core principles, mechanisms and processes that are necessary to enable municipalities to move progressively towards the social and economic upliftment of local communities, and ensure universal access to essential services that are affordable to all.

Impact on proposed activity:

Significant – The proposed development is in line with the Mookgopong Integrated Development Plan in terms of speeding up growth and transforming the economy, building social and economic infrastructure, and strengthening skills and human resource base.

The proposed development is also in line with the Mookgopong Spatial Development Framework in terms of addressing lack of bulk services and contributing to commercial development.

4.15 The Townplanning & Townships Ordinance, 1986 (Act No. 15 of 1986)

The purpose of the ordinance is to consolidate and amend laws relating to town-planning and the establishment of townships.

Implications for proposed development:

Significant - The proposed development triggers a Township establishment application which was submitted to Mookgopong Local Municipality on 8 September 2014.

4.16 Limpopo Conservation Plan

The purpose of the Limpopo Conservation Plan version 2 is to develop the spatial component of a bioregional plan (i.e. map of Critical Biodiversity Areas (CBA) and associated land-use guidelines.

Impact on proposed activity:

Significant – According to the Limpopo Conservation Plan Critical Biodiversity Areas (CBAs), the proposed development occurs in an area classified as **Ecological Support Area 1** i.e. natural, near-natural or degraded areas supporting CBAs by maintaining ecological processes of which the objective is to maintain ecosystem functionality and connectivity allowing for limited loss of biodiversity pattern.

4.17 Mookgopong Water Supply By-law

The purpose of the by-law is to regulate the provision of water supply by the Municipality to consumers.

Implications for proposed development:

Significant - The developer must submit an application for water supply to the Mookgopong Local Municipality, and enter into a consumer agreement with the Municipal Council.

4.18 Mookgopong Drainage By-law

The purpose of the by-law is to regulate drainage design, installation, construction, and maintenance in order to ensure efficient operation to minimise pollution and health risks.

Implications for proposed development:

Significant - The developer must submit an application for installing drainage works for the proposed development to the Local Municipality and will be responsible for the installation thereof in accordance with this by-law.

4.19 Mookgopong Electrical Supply By-law

The purpose of the by-law is to regulate the installation and maintenance of electrical networks in a manner that will ensure an efficient system is in operation which complies with high safety standards, and provides for procedures, methods, and practices to regulate the supply of electricity.

Implications for proposed development:

Significant - The developer has to enter into a written service agreement with the Local Municipality for electrical supply.

4.20 Occupational Health & Safety Act, 85 of 1993

The Act was created to provide for the health and safety of persons at work and for the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health and safety; and to provide for matters connected therewith.

Implications for the proposed development:

Significant – Construction activities are to be carried out in accordance with this law and associated regulations.

4.21 National Building Regulations and Building Standards Act, 103 of 1977

The Act was created to provide for the promotion of uniformity in the law relating to the erection of buildings in the areas of jurisdiction of local authorities; for the prescribing of building standards; and for matters connected therewith.

Implications for the proposed development:

Significant – Building plans of the proposed Shopping centre are to be submitted to the Mookgopong Local Municipality for approval.

5. Mitigation Measures and Responsibility per project phase

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
			Pre-construction Phase				
Environmental Integrity	EMP adherence	To make the EMP enforceable under the general conditions of the contract	The EMP documentation must be included as part of the tender documentation for all contractor appointments.	The EMP is included as part of the tender documentation	Developer	Prior to publishing tender	4.1-4.21
Fauna and Flora	Damage to indigenous vegetation and disturbance to fauna	To prevent the destruction of protected fauna discovered during construction	Construction workers should be made aware of potential red data mammal species occurring on site and procedures to follow if any protected species are discovered during any phase of the construction.	Protected species awareness training presented to contractors	ECO/ Project Manager	Before construction activities commence and as and when required	4.1, 4.5 and 4.16
		To prevent and reduce the negative impact on fauna species residing on the site	No fauna species may be disturbed, trapped, hunted, or killed during the construction phase. Conservation orientated clauses should be built into contracts for construction personnel, complete with penalty clauses for non-compliance.	Conservation orientated clause occurs in contracts with contractors.	Developer/ Project Manager	Before construction activities commence	4.1, 4.5 and 4.16
		To prevent the invasion of the area with alien invaders	Alien invaders must be eradicated before, during and after construction activities. A clause to this effect should be built into contracts for construction personnel, complete with penalty clauses for non-compliance.	Alien plant eradication clause occurs in contracts with contractors.	Developer/ Project Manager	Before construction activities commence	4.1, 4.5 and 4.9
Ecological Integrity	Ecological damage	Save/relocate red data mammal species residing on site	Prior to development commencing, the developer to appoint an ecologist to trap and relocate protected mammal species known to occur in the area, and relocate these species to a protected area (Nylsvlei Nature Reserve) within the district with the same vegetation type.	Red data mammal species relocated to similar habitat	Developer	Before construction activities commence	4.1, 4.5 and 4.16
		Retain natural vegetation	The developer must retain as much natural areas as possible as part of the development. A Natural Landscaping Plan should be compiled focussed on retaining as much of the natural occurring endemic vegetation as possible, and avoiding cosmetic and unnatural landscaping.	Natural occurring vegetation retained as part of development Landscaping Plan	Developer	Before construction activities commence	4.1, 4.5, 4.9 and 4.16

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference	
Geology and Soils	Erosion and Siltation	To prevent the unnecessary loss of soil through poor management	Pre-construction Phase					
			<p>Suitable locations should be selected on site to place the topsoil as well as spoil stockpiles as to avoid release of materials. All stockpiles must be appropriately positioned and managed in line with good engineering principles. Provision of earth bunds or sand bags in areas where a large amount of exposed soils exist is required.</p>	Areas for stockpiles are marked out at suitable locations	Contractor/ ECO	Before construction activities commence	4.1, 4.6, and 4.9	
			<p>The construction works shall be properly planned to minimise soil excavation during rainy seasons to prevent soil erosion from exposed soil surfaces.</p>	No visible signs of erosion and sedimentation	Contractor	Before or as soon as construction activities commence	4.1, 4.6, and 4.9	
			<p>Make construction workers aware of sediment controls and the importance prior to work commencing.</p>	Contractors have knowledge of purpose of sediment control	ECO/ ESO	Before or as soon as construction activities commence	4.1, 4.6, and 4.9	
Aesthetics	Waste generation	To control the temporary storage of waste	<p>Suitable locations should be selected on site to place the topsoil and subsoil stockpiles as to avoid release of materials into the drainage channels.</p>	No visible signs of erosion and sedimentation	Contractor/ ECO	Before or as soon as construction activities commence	4.1, 4.6, and 4.9	
			<p>Temporary waste storage locations on site shall be determined/identified. Storage points shall be accessible by waste removal trucks and these points should not be located in sensitive areas, areas highly visible from the peripheries of the surrounding land-owners/tenants or in areas where the wind direction will carry bad odours across the properties of adjacent tenants or landowners. Waste storage requirements must be submitted to the Contractor prior to construction. This must be monitored.</p>	Waste storage locations marked out on map and suitable bins are procured for waste storage at identified locations	Contractor/ ESO	Before construction activities commence	4.1, 4.3, and 4.6	
			<p>Construction activities may only take place during "normal working hours" which are from "sunrise to sunset", Monday through Saturday. Non-working hours and days must be highlighted in the project document i.e. Sundays, public holidays etc.</p>	Contractors working hours must be stipulated in the contract.	Developer/ Project Manager	Before construction activities commence	4.1, and 4.2	
Noise generation	Noise generation	To minimise the noise impact associated with the proposed construction activities						

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference	
Water	Availability of water for development	Sufficient water available for development	Municipality confirmed availability of spare water capacity for the proposed development (31kl/day).	Signed service agreement with local municipality	Developer	Before construction activities commence	4.1, 4.7 and 4.17	
	Water supply interruption due to outdated water infrastructure	No interruption of water supply to development	Developer intends on sinking two boreholes to augment municipal water supply and provide water security. Developer to conduct Geo-hydrological study in terms of quality and quantity of groundwater available. If more than 1m³ will be abstracted per day, then water use must be licensed .	Geo-hydrological study conducted WULA obtained	Developer	Before construction activities commence	4.1, 4.6, 4.7 and 4.17	
	Pollution of ground and surface water by hydrocarbons	Prevent pollution of ground and surface water by hydrocarbons	Contractor to provide drip trays and spill kits for all mobile plant operating on site.	Clause occurs in contractors' contract.	Developer/ Project Manager	Before construction activities commence	4.1, 4.3 and 4.6	
	Storm water management	Stormwater effectively managed and no flooding of development	Compile Stormwater Management Plan including design drawings required prior to development, to prevent flooding of the development as well as the R101.	Stormwater management plan approved by local municipality	Developer	Before construction activities commence	4.1, 4.6 and 4.18	
	Fire fighting capacity	Sufficient water capacity required for fire reticulation system.	Fire specialist to be appointed to conduct fire needs assessment and design fire reticulation system including advising storage capacity of onsite tanks.	Fire needs assessment conducted	Developer	Before construction activities commence	4.1, 4.6, 4.17 and 4.21	
	Traffic	Mookgopong traffic flow negatively impacted	Limited impact on Mookgopong traffic flow	A Traffic Impact Study (TIS) was conducted for the proposed development.	TIS conducted	Developer	Before construction activities commence	4.12, 4.14, 4.15 and 4.21
	Cultural heritage	Loss of or damage to cultural resources	Preserve cultural historic sites and finds	Provincial Heritage Resources Authority informed of planned construction activities in terms of section 38 of the National Heritage Resources Act. Conduct Heritage Impact Assessment if requested to do so.	Comment/ Approval received from Province	Developer/ EAP	Once-off	4.1 and 4.8

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Land	Land claims	Land claims commissioner informed of planned development	Inform local land claims commissioner of the intended development.	Response received prior to development	Developer/ EAP	Before construction activities commence	4.11
	Servitudes required	Servitudes claimed for services across adjacent properties	Claim servitude over adjacent properties for services to be installed, if required.	Servitude allowed and registered	Developer/ EAP	Before construction activities commence	4.6, 4.13, 4.15, 4.17, 4.18, and 4.19
	Township establishment	Approval obtained for Township establishment	The Developer has submitted an application for Township Establishment to Local Municipality.	Township establishment approved	Developer	Before construction activities commence	4.15
	Construction complies with legislation	Buildings comply with National Building Regulations and Standards Act.	Building plans to be submitted to Mookgopong Local Municipality for approval.	Building plans approved	Developer	Before construction activities commence	4.15 and 4.21
	Alignment with Mookgopong IDP and SDF	Project is in line with Municipal IDP and SDF	Review Municipal IDP and SDF to establish whether development is aligned with objectives of Local Municipality.	Confirmed development in line with Municipal objectives	EAP	Before construction activities commence	4.14

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
Environmental integrity	EMP adherence	Ensure conformance to EMP	The contents of EMP to be communicated to contractors/sub-contractors.	Contractors carry knowledge of EMP requirements	ESO/ECO	Before any construction activity commences	4.1-4.21
Ecological integrity	Ecological damage	Prevent the destruction of protected mammals discovered during construction Retain natural vegetation	If protected mammal species are encountered during construction, ECO should be informed and Ecologist requested to capture and relocate the mammals. Natural areas identified as forming part of landscaping in terms of Natural Landscaping Plan are to be demarcated as No-Go area in order to protect it from destruction. Areas where construction is to take place is to be stripped of topsoil to a depth of at least 150mm .	No destruction of red data mammal species	Contractor/ ECO	Continuous	4.1, 4.5 and 4.16
Geology and soils	Loss of Vegetation, and topsoil	Strip topsoil to depth of 150mm		Natural vegetation retained as part of development landscaping Vegetation only removed in designated areas. Topsoil stripped to 150mm.	Contractor/ ECO	Continuous	4.1, 4.5, 4.9 and 4.16
	Loss of topsoil	To prevent the loss of topsoil To prevent soil and materials being tracked onto the road.	Stockpiling of topsoil will only be done in designated areas where it will not interfere with the natural drainage paths of the environment and may not be higher than 1.5 m. In order to minimise erosion of topsoil and siltation and disturbance to existing vegetation, it is recommended that stockpiling be done in already disturbed/exposed areas. Remove vegetation only in areas designated during the planning stage and for the purpose of construction.	No loss of topsoil. Excavated materials correctly stockpiled < 1.5m high. No visible signs of erosion of topsoil.	Contractor/ ESO	Before construction commences in a designated area.	4.1, 4.6, and 4.9
Fauna and Flora	Damage to indigenous flora and animals	To prevent the invasion of the area with alien invaders	All exotic invaders and weeds must be eradicated. Snaring and hunting of fauna by construction workers on or adjacent to the study area are strictly prohibited and offenders shall be prosecuted. Wood harvesting of any trees or shrubs on the study area or adjacent areas shall not be allowed. If any red data species are discovered during construction, procedures as stipulated at the end of the EMP should be followed.	Alien vegetation removed No signs of animal trapping or killing	Contractor/ ESO	Continuous	4.1, 4.5 and 4.9

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Water	Pollution of ground and surface water	Prevent the pollution of the ground- and surface water by means of sewage	<p>Construction Phase</p> <p>At least one chemical toilet must be available for every 15 persons at each construction area. The contractor shall keep the toilets in a clean, neat, and hygienic condition. Toilets provided by the contractor must be easily accessible and a maximum of 50 m from the working area to ensure they are utilized. The contractor (who must use reputable toilet-servicing company) shall be responsible for the cleaning, maintenance and servicing of the toilets. The contractor (using reputable toilet-servicing company) shall ensure that all toilets are cleaned and emptied before the builders' or other public holidays.</p> <p>No person is allowed to use any other area than chemical toilets.</p> <p>No French drain systems may be installed.</p> <p>No chemical or waste water must be allowed to contaminate the run-off on site. The chemical toilets may not be placed in close proximity of adjacent developments to prevent odours.</p>	<p>Toilets are located away from drainage lines.</p> <p>Workforce use toilets provided.</p> <p>Chemical toilets are clean and maintained.</p>	Contractor/ ESO	Before construction activities commence and on a continuous basis thereafter	4.1, 4.3 and 4.6
			<p>Drip trays should be provided for all mobile plant on site for the construction period, while parked;</p> <p>All mobile plant should be equipped with a hydrocarbon spills kit to facilitate cleaning up any spills as a result of a breakdown;</p> <p>An impermeable plastic sheet must be placed underneath the mobile plant to be worked on to prevent ingress of hydrocarbons into soil or water; Any spillages on the impermeable sheet must be cleaned with a spills kit prior to removing the sheet. No leaking vehicle shall be allowed on site. The mechanic/the mechanic of the appointed contractor must supply the environmental officer with a letter of confirmation that the vehicles and equipment are leak proof.</p>	<p>No signs of hydrocarbon spillages on site.</p> <p>The contractor must prove vehicles have been serviced and do not have any leaks.</p>	Contractor/ ESO	Continuous	4.1, 4.3 and 4.6

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference	
Water	Pollution of ground and surface water	To minimize pollution of surface and groundwater resources due to spilling of hazardous materials.	Construction Phase					4.1, 4.3 and 4.6
			<p>Hydrocarbons and chemicals must be confined to specific secured areas within the site camp. These areas must be banded with adequate containment (at least 1.5 times the volume of the substance stored) for potential spills or leaks.</p> <p>All spilled hazardous substances must be contained in impermeable containers for removal to a licensed hazardous waste site.</p> <p>No bins containing organic solvents such as paint and thinners shall be cleaned on site.</p> <p>All spillages must be cleaned up with spills orb product and contaminated soil removed as hazardous waste.</p> <p>Hazardous waste must be disposed of by a registered contractor at an appropriately registered disposal site.</p>	No pollution of the environment by hazardous substances visible on site	Contractor/ ESO	Continuous		
Water	Storm water management	To minimize pollution of surface and groundwater resources by cement effluent	<p>The mixing of concrete shall only be done at specifically selected sites away from natural drainage lines, on mortar boards or similar structures to prevent run-off into surrounding drainage lines, streams, and natural vegetation.</p>	No evidence of cement contaminated soil on the construction site	Contractor/ ESO	Continuous	4.1, 4.3 and 4.6	
			<p>No effluent (including effluent from any storage areas) may be discharged into any water surface or groundwater resource.</p>	No evidence of contaminated water resources	Contractor/ ESO	Continuous	4.1, 4.3 and 4.6	
Water	Water supply	No interruption of water supply to development	<p>Storm water retention pond drained. Quarry to be filled and compacted</p> <p>Storm water management infrastructure to be constructed in accordance with Stormwater Management Plan in and around the site.</p> <p>Natural storm water systems should be constructed e.g. bio swales and not concrete channels.</p> <p>Sink two boreholes.</p>	Construction works not flooded and natural biological storm water system implemented	Contractor/ ESO	Once off	4.1, 4.6 and 4.18	
				Boreholes drilled and equipped as back-up water supply	Developer/ EAP	Once off	4.1, 4.6, and 4.17	

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference
			Construction Phase				
	Fire fighting capacity	Sufficient water capacity available for fire reticulation system.	Install fire reservoirs. Install fire reticulation system.	Fire reticulation system installed	Contractor	Once off	4.1, 4.6, 4.17 and 4.21
	Sewerage infrastructure capacity	Sufficient sewerage system and Municipal STW capacity available	Three-chambered black water treatment system to be installed of which the effluent is grey water Grey water to be pumped to invert level of existing 160mm sewer line in 1st Avenue. Sewer line to be constructed across 1st Avenue. Construction activities may only take place from sunrise to sunset from Monday to Saturday.	Sewerage reticulation system installed	Contractor	Once off	4.1, 4.3, 4.6, 4.7, 4.18 and 4.21
Aesthetic	Noise generation	To minimise the noise impact associated with the proposed construction activities		No complaints from surrounding residents and I & APs	Contractor/ ESO	Continuous	4.1, and 4.2
	Dust impact	Minimise dust from the site	Dust pollution could occur during the construction works, especially during the dry months. Regular and effective dust suppression of working areas (especially during the dry and windy periods) must be carried out to avoid dust pollution, impacting on adjacent residential areas and creating dangerous driving conditions on nearby roads. If necessary, construction areas and access roads should be watered in the mornings and afternoons.	No visible signs of dust pollution No complaints from surrounding residents and I & APs	Contractor/ ESO	Continuous	4.1 and 4.2
Aesthetic	Waste generation - Visual Impact and air pollution	To minimise the visual impact of the proposed activity	Waste storage locations and stockpile areas should not be in areas highly visible from the properties of the surrounding land-owners/tenants or in areas where the wind direction will carry bad odours across the properties of adjacent tenants or landowners.	Visual impact and bad odours minimised	ECO/ ESO	Continuous	4.1, 4.3, and 4.6
	Waste generation	To prevent unhygienic usage on the site and pollution of the natural assets	Weather proof waste bins must be provided and emptied regularly. The contractor shall provide labourers to clean up the contractor's camp and construction site on a daily basis. Waste storage points should be accessible by waste removal trucks and these points should be located in already disturbed areas/areas not highly visible from	No waste bins overflowing No litter visible on the site	Contractor/ ESO	Continuous	4.1, 4.3, and 4.6

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference
			Construction Phase				
			<p>the properties of the surrounding land-owners/in areas where the wind direction will not carry bad odours across the properties of adjacent landowners. This site should comply with the following:</p> <ul style="list-style-type: none"> • Skips for the containment and disposal of waste that could cause soil and water pollution, i.e. paint, lubricants, etc.; • Small lightweight waste items should be contained in skips with lids to prevent wind littering; and • Bunded areas for containment and holding of dry building waste. <p>No solid waste may be disposed of on the site. No waste materials shall at any stage be disposed of in the open veldt, adjacent properties or in sensitive areas.</p> <p>The storage of solid waste on the site, until such time as it may be disposed of, must be in a manner acceptable to the local authority and the Department of Water Affairs (DWA). Cover any waste that is likely to wash away or contaminate storm water.</p>				
	Waste generation	Recycle material where possible and correctly dispose of unusable wastes	<p>Waste shall be separated into recyclable and non-recyclable waste, and shall be separated as follows:</p> <ul style="list-style-type: none"> • General waste; • Building rubble; and • Reusable /recyclable material. <p>Recyclable waste shall preferably be deposited in separate bins.</p> <p>All solid waste must be removed to a permitted waste disposal site on a weekly basis.</p> <p>Keep records of waste generated, reused, recycled, and disposed for future reference. Provide information to ECO.</p>	Sufficient containers available on site No visible signs of pollution	Contractor ESO	Continuous	4.1 and 4.3
Geology and soils	Stability of structures	To ensure the stability of structures to be constructed	The precautionary measures and foundation design from the involved civil engineers must be implemented during construction of structures.	No signs of collapse of structures	Contractor/ Engineer	Continuous	4.20 and 4.21
	Erosion and	To prevent erosion ,	Mark out the areas to be excavated prior to	No erosion scars	Contractor	Continuous	4.1, 4.6 and

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference
	siltation	siltation & water pollution	<p>Construction Phase</p> <p>excavation commencing. Unnecessary clearing of flora resulting in exposed soil prone to erosive conditions should be avoided. Provision of earth bunds or sand bags in areas where large amounts of exposed soils exist is required. Construction work must be properly programmed to minimize soil excavation in the rainy season. All stockpiles must be managed in accordance with good engineering principles. It must be positioned appropriately and be protected from run-off. Existing access roads only, may be used to gain access to site and travel on site. All surfaces that are susceptible to erosion, shall be protected either by cladding with biodegradable material or with the top layer of soil being seeded with grass seed/planted with a suitable groundcover. Large exposed areas during the construction phases should be limited. Where possible areas earmarked for construction during later phases should remain covered with vegetation coverage until the actual construction phase. This will prevent unnecessary erosion and siltation in these areas. All embankments must be adequately compacted and planted with grass to stop any excessive soils erosion and scouring of the landscape. Cover stockpiles and surround downhill sides with a sediment fence to stop materials washing away. Construction vehicles should only use the designated routes as determined in the pre-construction phase. Topsoil stripped should be stockpiled in areas where this material will not be damaged, removed, or compacted. This stockpiled material should be used for the rehabilitation of the site. All compacted areas should be ripped prior to them being rehabilitated by the contractor.</p>	<p>All damaged areas successfully rehabilitated</p> <p>Earth bunds present</p> <p>Drainage channels established</p> <p>Cut-off drains excavated</p> <p>Stockpiles covered and sediment fence erected around stockpiles</p> <p>Stockpiles suitably covered and sediment fence erected</p>	ESO		4.9
	Compaction of soil	To prevent the compaction of valuable soils due to traffic and equipment		No evidence of driving over stockpiled topsoil.	Contractor ESO	Continuous	4.1 and 4.9
	Contamination of soil	Prevent contamination of soil	There should not be any unnecessary vehicle maintenance on site and if a vehicle needs to be serviced it should be sent to a registered/certified vehicle garage. Should the soil be contaminated by the leaking of fuel the following should apply:	No vehicle maintenance occurring on site. No signs of soil pollution	Contractor ESO	Continuous	4.1, 4.3 and 4.9

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
Safety			The contaminated soil should be removed to a depth of 200 mm and disposed of as hazardous waste. Thereafter the area should be treated with an organic solvent.				
	Injuries during construction	Prevent injuries to workers and public	Contractor to comply with Occupational Health & Safety Act and associated regulations during construction.	No injuries	Contractor	Continuous	4.20
	Fire risk to site and surrounding areas	Decrease fire risk	No open fires are allowed on site. Smoking is only allowed in designated areas (signposted) and cigarette buds may not be disposed of in the open veldt. Fire extinguishers to be provided in all vehicles and fire beaters must be available on site. Emergency numbers/contact details must be available on site, at the site camp and with each supervisor.	No signs of burnt veldt. Fire beaters present in vehicles and on site. Emergency numbers displayed.	Contractor ESO	Continuous	4.10, 4.20 and 4.21
Social	Not addressing local unemployment	Employ locals	It is recommended that (where possible) only people from the local communities in and around the area are employed on the construction site.	People from local community employed	Contractor	Continuous	4.14
Cultural heritage	Loss of or damage to cultural Resources	Preserve cultural historic sites and finds	If any features are discovered during construction activities, the correct "procedures for an Environmental Incident" (at the end of this EMP) must be followed.	No destruction of or damage to graves archaeological sites	Contractor ESO/ ECO	Continuous	4.8
Traffic	Mookgopong traffic flow negatively impacted	Safety of public drivers not compromised	Signage indicating the operations of heavy vehicles on access roads and on the construction site is to be erected. The following actions would assist in management of safety along the road: <ul style="list-style-type: none"> ▪ Adequate road traffic signs; ▪ Erect proper signs indicating the danger of the excavation in and around the site; and ▪ All areas that are excavated to a depth of 1.5 m and more must be marked with barrier tape to prevent injury. 	Traffic signs are visible Barrier tape erected around excavations	Contractor ESO	Continuous	4.12 and 4.20
		Limited impact on Mookgopong traffic flow	Recommendations of ITS to be implemented.	No traffic incidents as result of development	Contractor	Continuous	4.12 and 4.20

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference
Geology and soils	Loss of soil	Rehabilitation of the site	Decommissioning/Rehabilitation Phase				
			Compacted soils shall be ripped at least 200 mm deep. All clumps and rocks larger than 30 mm diameter shall be removed from the soil to be rehabilitated. The soil shall be levelled before seeding Hydro-seed the soil with grass species indigenous to Springbokvlakte Thornveld . Watering shall take place at least once per day for the first 14 days until germination of seeds have taken place. Thereafter watering should take place at least for 20 minutes every 4 days until grass have hardened off.	Indigenous grass species have re-established	Contractor ESO	Prior to decommissioning	4.1, 4.5 and 4.9
Ecological integrity	Spread of invasive and alien vegetation	To prevent the spread and occurrence of alien invaders	Prior to concluding decommissioning activities the contractor should eradicate all invaders visible on the construction site.	No alien and invasive species visible	Contractor ESO and ECO	At end of construction phase	4.1, 4.6 and 4.9
			Upon completion of construction and rehabilitation the ECO should assess and approve the adequacy of the rehabilitation and ensure that sufficient levels of rehabilitation have been undertaken to allow re-establishment of the necessary vegetation. Rehabilitation works should be monitored until 80% of vegetation has been established.	Site rehabilitated	Contractor ESO and ECO	Until ECO satisfied	4.1 and 4.9
	Destruction of natural vegetation	Retain natural vegetation	Natural areas identified as forming part of Natural Landscaping Plan are to be rehabilitated using endemic vegetation.	Endemic/natural vegetation used for rehabilitation/ Landscaping	Contractor/ ECO	Continuous	4.1, 4.5, and 4.9
Aesthetic	Waste removal	All waste removed from construction site	All waste must be removed to the Mookgopong Class GSB landfill site prior to contractor leaving site.	No pollution of the environment	Contractor ESO and ECO	At end of construction phase	4.1 and 4.3
			ECO to conduct final site inspection and audit Structures comply with building regulations	EMP compliance	ECO	At end of construction phase	
Legal compliance	Compliance with RoD and EMP	Structures comply with building regulations	Verify structures comply with design specifications.	Structural integrity	Local Municipality	At end of construction phase	4.15, 4.20, 4.21

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference
Decommissioning/Rehabilitation Phase							
Water	Stormwater management	Stormwater efficiently managed and no flooding of development	Natural storm water system sufficiently rehabilitated with indigenous endemic species in accordance with Stormwater Management Plan and Natural Landscaping Plan.	Rehabilitation of storm water structures using endemic flora species	Contractor ESO	At end of construction phase	4.1, 4.5, 4.6, and 4.9

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance Indicator	Responsibility	Frequency of Action	Applicable legislation reference
Operational Phase							
Social	Not addressing local unemployment	Employ locals	It is recommended that only people from Mookgopong or surrounding towns are employed during the operational phase of the project.	People from local community employed	Developer	Continuous	4.14

6. Procedures for Environmental Incidents

6.1 Leakages and Spills

- Identify source of problem;
- Stop leak, if safe to do so;
- Contain spilt material, using spills kit or sand;
- Notify Environmental Control Officer;
- Remove spilt material and place in sealed container for disposal (if possible); and
- Environmental Control Officer to follow Incident Management Plan.

6.2 Failure of Erosion/Sediment Control Devices

- Prevent further escape of soil/sediment;
- Contain escaped material using silt fence, hay bales, pipes, etc.;
- Notify ECO;
- Repair or replace failed device as appropriate;
- Dig/scrape up escaped material; take care not to damage vegetation;
- Return escaped material to area where it originated from;
- ECO to follow Incident Management Plan; and
- Monitor for effectiveness until re-establishment.

6.3 Bank/Slope Failure

- Stabilize toe of slope to prevent sediment escape using aggregate bags, silt fence, logs, hay bales, pipes, etc.;
- Notify ECO;
- ECO to follow Incident Management Plan;

- Divert water upslope from failed bank/slope;
- Protect area from further collapse as appropriate;
- Restore as advised by ECO; and
- Monitor for effectiveness until stabilized.

6.4 Discovery of Rare or Endangered Species

- Cease work in the area of discovery;
- Notify ECO;
- If a plant is found, mark location of plants;
- If an animal, mark location where sighted, take picture if possible;
- ECO to identify or arrange for identification of species, and or the rescue and relocation of the species if possible;
- If confirmed significant, ECO to liaise with Endangered Wildlife Trust; and
- Recommence work when cleared by ECO.

6.5 Discovery of Archaeological or Heritage finds

- Cease work in the area of discovery;
- Do not disturb the area of the find;
- Notify ECO;
- ECO to arrange appraisal of specimen;
- If confirmed significant, ECO to liaise with National, Cultural and History Museum
P.O. Box 28088
SUNNYSIDE
0132
Contact Mr. J. van Schalkwyk or Mr. Naude; and
- Recommence work when cleared by ECO.

7. EMP Review and compliance

1. Changes will be affected to this draft EMP in accordance with LDEDET comments.
2. The Contractor's Site Supervisor is responsible for ensuring that site workers comply with procedures, and for informing the site workers of any changes that may have been implemented by LDEDET before starting any construction work.
3. If the contractor cannot comply with any of the mitigation measures as described in **Section 5.**, they should inform the ECO with reasons within 7 working days from receipt of the EMP.

**ANNEXURE G:
OTHER INFORMATION – DEED OF
TRANSFER**



Prokureurs/Notarisse/Transportbesorgers
Blok C, Equity Park
Brooklynweg 257
Brooklyn, Pretoria 0002
Posbus 2330, Pretoria, 0001
Telefoon (012) 362-8990
Telefaks No. (012) 362-2474
Docex No. DX30, PRETORIA

Attorneys/Notaries/Conveyancers
Block C, Equity Park
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Brooklyn, Pretoria 0002
P O Box 2330, Pretoria, 0001
Telephone (012) 362-8990
Telefax Nr. (012) 362-2474
Docex Nr. DX30, PRETORIA

**Rorich
Wolmarans
en/and
Luderitz**

Ingeely/Incorporated
REG NO. 78/04368/21

Ons Verw./Our Ref.
Cindy/A29986
(e-mail: cstafford@rwl.co.za)

U Verw./Your Ref
JS PISTORIUS

05 DECEMBER 2013

**MOOKGOPHONG SQUARE DEV
P.O. BOX 5959
ONVERWACHT
0557**

BY REGISTERED POST

Dear Sir

**TRANSFER CEDAR FALLS PROPERTIES / MOOKGOPHONG SQUARE
OVER ERF PTN 17 OF FARM VLAKFONTEIN 522**

We enclose herewith the following documents for safekeeping by yourself:

1. Original Title Deed nr. T63326/2013

Kindly acknowledge receipt hereof.

Yours faithfully

Rorich Wolmarans & Luderitz Inc

per: 

DIREKTEURE/DIRECTORS: G. van den Burg, L.D. Molekoa R. Meintjes
BYGESTAAN DEUR/ASSISTED BY: J. Meintjes J.N.J Swart S.P Engelbrocht R Fabricius

BEE COMPLIANT / LEVEL 3 CONTRIBUTOR

65

S	
S	
TOTAL	
FEE R	1100,00

Rorich Wolmarans & Luderitz Inc
Block C, Equity Park
257 Brooklyn Road
Brooklyn, Pretoria 0002

Prepared by me


CONVEYANCER
Julize Meintjes

DEED OF TRANSFER

BE IT HEREBY MADE KNOWN THAT

T	63326	13
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Annette Johanna Louw

appeared before me, REGISTRAR OF DEEDS at Pretoria, he the said Appearer being duly authorised thereto by a Power of Attorney signed at JOHANNESBURG on 18 JULY 2013 and granted to him by

IAN LOUBSER

DULY authorised thereto by court order In the High Court of South Africa (North Gauteng High Court Pretoria) under case nr 35632/2012 dated the 8 of August 2012, in terms whereof he replace Jan Hendrik Loubser in the Special power of attorney signed on 1 September 2011 at Pretoria and granted to him by



CEDAR FALLS PROPERTIES 65 PROPRIETARY LIMITED
Registration number 2005/033722/07

And the Appearer declared that his said principal had truly and legally sold on 24 June 2013 by Private Treaty and that he, the said Appearer, in his capacity aforesaid, did, by these presents, cede and transfer to and on behalf of

MOOKGOPHONG SQUARE ONTWIKKELING PROPRIETARY LIMITED
Registration Number 2013/074015/07

its Successors in Title or assigns, in full and free property

PORTION 17 (A PORTION OF PORTION 7) OF THE FARM
VLAKFONTEIN 522 Registration Division K.R., Limpopo Province

MEASURING 8,5675 (EIGHT COMMA FIVE SIX SEVEN FIVE)
HECTARES

FIRST TRANSFERRED by Deed of Transfer Number T 2012/1959 with
Diagram SG No. A6095/1957 relating thereto and held by Deed of
Transfer T56228/2006

SUBJECT to the following conditions:

ONDERWORPE aan die volgende voorwaardes opgelê deur die Beherende
Gesag kragtens Wet Nommer 21 van 1940:-

- A. 1. Die grond mag nie onderverdeel word nie tensy die skriftelike goedkeuring van die Beherende Gesag soos omskryf in Wet Nommer 21 van 1940, gelees saam met Wet Nommer 44 van 1948 eers verkry is.
 2. Nie meer as een woonhuis, tesame met sulke buitegeboue wat gewoonlik in verband daarmee nodig is, mag op die grond opgerig word nie tensy die skriftelike goedkeuring van die Beherende Gesag soos omskryf in Wet Nommer 21 van 1940, gelees saam met Wet Nommer 44 van 1948 daartoe verkry is.
 3. Die grond moet slegs vir woon- en landboudoeleindes gebruik word en hoegenaamd geen winkel of besigheid of nywerheid mag sonder die skriftelike goedkeuring van die Beherende Gesag soos omskryf in Wet Nommer 21 van 1940, gelees saam met Wet Nommer 44 van 1948 op die grond geopen of gedryf word nie.
- B. Geen gebou of enige bouwerk hoegenaamd mag binne 'n afstand van 94,46 meter vanaf die middellyn van die nasionale pad opgerig word nie



tensy die skriftelike goekeuring van die Beherende Gesag soos omskryf in Wet Nommer 21 van 1940, gelees saam met Wet. Nommer 44 van 1948 eers daartoe verkry is.

SUBJECT to such conditions as are mentioned or referred to in the aforesaid Deed/s.

WHEREFORE the Appearer, renouncing all right and title which the said

CEDAR FALLS PROPERTIES 65 PROPRIETARY LIMITED
Registration number 2005/033722/07

heretofore had to the premises, did in consequence also acknowledge it to be entirely dispossessed of, and disentitled to the same, and that by virtue of these presents, the said

MOOKGOPHONG SQUARE ONTWIKKELING PROPRIETARY LIMITED
Registration Number 2013/074015/07

its Successors in Title or Assigns, now is and henceforth shall be entitled thereto, conformably to local custom, the State, however reserving its rights, and finally acknowledging the purchase price to be the sum of R2 650 000,00 (TWO MILLION SIX HUNDRED AND FIFTY THOUSAND RAND) and consideration being R 3 021 000 (Three zero two one zero zero Rand)

IN WITNESS WHEREOF, I the said Registrar, together with the Appearer q.q., have subscribed to these presents and have caused the Seal of Office to be affixed thereto.

THUS DONE AND EXECUTED at the Office of the REGISTRAR OF DEEDS at Pretoria on 20 08 13

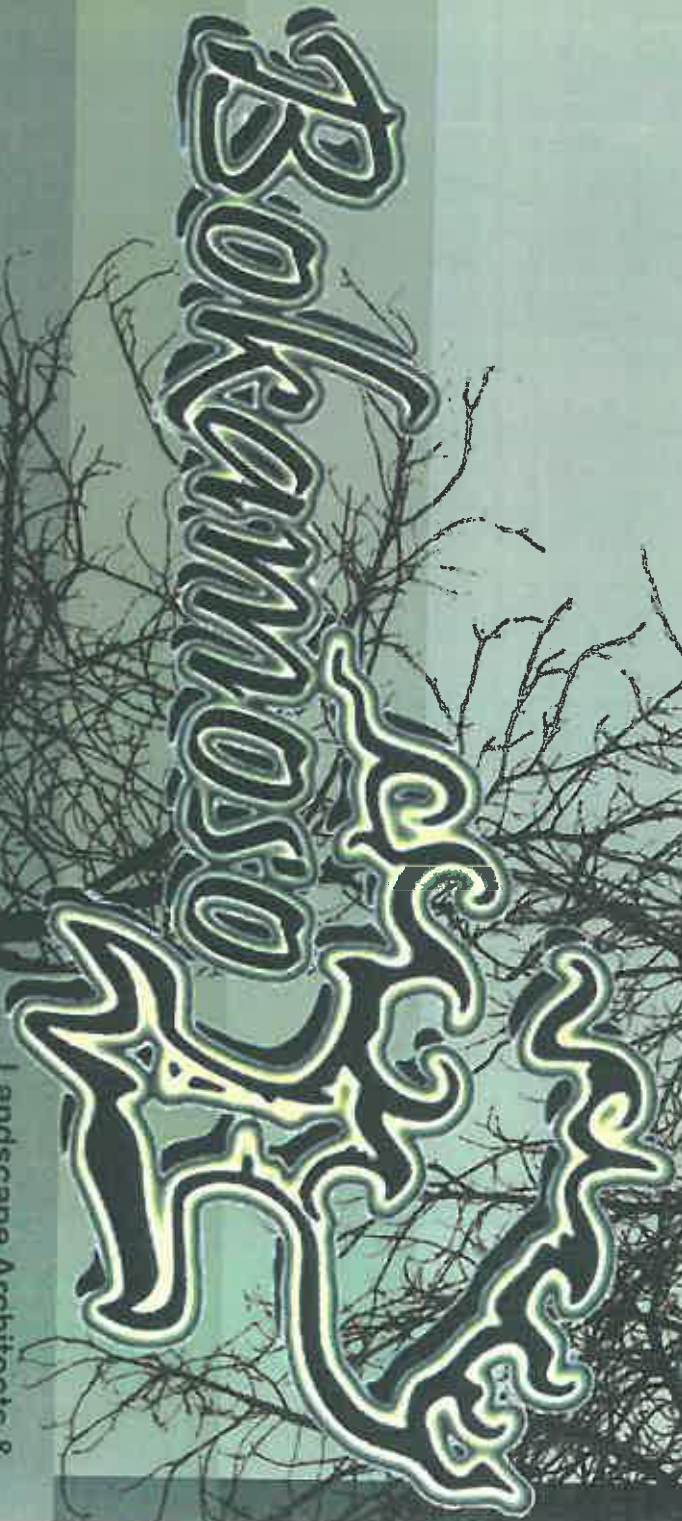
q.q.

In my presence

REGISTRAR OF DEEDS

**ANNEXURE H:
COMPANY PROFILE AND CV OF
LIZELLE GREGORY**





Bokamoso

Landscape Architects &
Environmental consultants

P.O. BOX 11375
Maroelana
0161

Tel: (012) 346 3340
Fax: (086) 570 5559

E-mail: lizelle@mwweb.co.za
Website: www.bokamoso.net

- 01 Executive Summary
- 02 Vision, Mission & Values
- 03 Human Resources
- 04 Services
- 05 Landscape Projects
- 06 Corporate Highlights
- 07 Environmental Projects
- 08 Indicative Clients
- 09 Tools



Table of Contents

Bokamoso specialises in the fields of Landscape Architecture and all aspects of Environmental Management and Planning. Bokamoso was founded in 1992 and has shown growth by continually meeting the needs of our clients. Our area of expertise stretches throughout the whole of South Africa. Our projects reflect the competence of our well compiled team. The diversity of our members enables us to tend to a variety of needs. Our integrated approach establishes a basis for outstanding quality. We are well known to clients in the private, commercial as well as governmental sector.

At Bokamoso we stand on a firm basis of environmental investigation in order to find unique solutions to the requirements of our clients and add value to their operations.



Bokamoso

01 Executive Summary

Company Overview



Vision:

At Bokamoso we strive to find the best planning solutions by taking into account the functions of a healthy ecosystem. Man and nature should be in balance with each other.

Mission:

We design according to our ethical responsibility, take responsibility for successful completion of projects and constitute a landscape that contributes to a sustainable environment. We add value to the operations of our clients and build long term relationships that are mutually beneficial.

Values:

Integrity
Respect



02 Vision, Mission & Values

Bokamoso stands on the basis of fairness. This include respect within our multicultural team and equal opportunities in terms of gender, nationality and race.

We have a wide variety of projects to tend to, from complicated reports to landscape installation. This wide range of projects enables us to combine a variety of professionals and skilled employees in our team.

Bokamoso further aids in the development of proficiency within the working environment. Each project, whether in need of skilled or unskilled tasks has its own variety of facets to bring to the table.

We are currently in the process of receiving our BEE scorecard. We support transformation in all areas of our company dynamics.



**03 Human Resources
Employment Equity**

Lizelle Gregory (100% interest)

Lizelle Gregory obtained a degree in Landscape Architecture from the University of Pretoria in 1992 and passed her board exam in 1995. Her professional practice number is PrLArch 97078.

Ms. Gregory has been a member of both the Institute for Landscape Architecture in South Africa (ILASA) and South African Council for the Landscape Architecture Profession (SACLAP), since 1995.

Although the existing Environmental Legislation doesn't yet stipulate the academic requirements of an Environmental Assessment Practitioner (EAP), it is recommended that the Environmental Consultant be registered at the International Association of Impact Assessments (IAIA). Ms. Gregory has been registered as a member of IAIA in 2007.

Ms. Gregory attended and passed an International Environmental Auditing course in 2008. She is a registered member of the International Environmental Management and Assessment Council (IEMA).

She has lectured at the Tshwane University of Technology (TUT) and the University of Pretoria (UP). The lecturing included fields of Landscape Architecture and Environmental Management.

Ms. Gregory has more than 20 years experience in the compilation of Environmental Evaluation Reports:
Environmental Management Plans (EMP);
Strategic Environmental Assessments;
All stages of Environmental Input;
EIA under ECA and the new and amended NEMA regulations and various other Environmental reports and documents.

Ms. Gregory has compiled and submitted more than 100 Impact Assessments within the last 5-6 years. Furthermore, Ms. L. Gregory is also familiar with all the SOARD/Provincial Environmental policies and guidelines. She assisted and supported GADTREA's former PWV Committee with Environmental Input and reports regarding road network plans from 2004 to 2007. She also assisted and supported GADTREA's former PWV



03 Human Resources

032 Members

Consulting

Anè Agenbacht

Introduction to Sustainable Environmental Management—An overview of Principles, Tools, & Issues (Potch 2006)
Leadership Training School (Lewende Woord 2010)
BA Environmental Management (UNISA 2011)
PGCE Education (Unisa 2013) - CUM LAUDE
Project Manager
More than 10 years experience in the compilation of various environmental reports

Mary-Lee Van Zyl

Msc. Plant Science (UP)
BSc (Hons) Plant Science (UP)
BSc Ecology (UP)
2 years 7 months working experience in the Environmental field
Specialises in ECO works, Basic Assessments, EIA's, and Flora Reports
Compilation of various Environmental Reports

Dashantha Naidoo

BA Honours Degree in Environmental Management (UNISA) - CUM LAUDE
Bachelor Social Science in Geography & Environmental Management (UKZN)
More than 4 years experience in WUL Applications & Integrated Environmental Management within water resource management.
Senior Environmental Practitioner & Water Use Licences Consultant
Specialises in Water Use License & Compilation of various Env. Reports

Ben Bhukwana

BSc Landscape Architecture (UP)
More than 5 years experience in the field of Landscape Architecture (Design, Construction, and Implementation).
Specialise in Landscape Design, ECO, Rehabilitation Plans and Compilation Basic Assessment Reports.
Compilation of Tender documents.



03 Human Resources

033 Personnel

Anton Nel

B-Tech Landscape Technology (TUT)
N Dip Landscape Technology (TUT)
Hazardous Waste Management Short Course
2 years experience in ECO.
Specialises in Basic Assessment Reports.

Juanita de Beer

Diploma Events Management and Marketing (Damelin)
Specializes in Public relations and Public Participation Processes (3 years experience)

Alfred Thomas

CIW Foundation & Internet Marketing (IT Academy)
12 years experience in GIS and IT in general.
GIS Operator and Multimedia Specialist.

Bianca Reyneke

Applying SHE Principles and Procedures (NOSA)
Intro to SAMTRAC Course (NOSA)
SHEQ Coordinator and compilation of environmental reports
Specialises in compiling various environmental reports



03 Human Resources

034 Personnel

Elsa Viviers

Interior Decorating (Centurion College)
(Accounting/ Receptionist) and Secretary to Lizelle Gregory

Loura du Toit

N. Dip. Professional Teacher (Heidelberg Teachers Training College)
Librarian and PA to Project Manager

Merriam Mogalaki

Administration Assistant with in-house training in bookkeeping

Landscape Contracting

Elias Maloka


Site manager overseeing landscape installations.
Irrigation design and implementation.
Landscape maintenance
18 years experience in landscape contracting works.

The contracting section comprises of six permanently employed black male workers. In many cases the team consists of up to 12 workers depending on the quantity of work.



03 Human Resources

035 Personnel



01 Environmental Management Services

- Basic Assessment Reports
- EIA & Scoping Reports
- Environmental Management Plans
- Environmental Scans
- Strategic Environmental Assessments
- EMP for Mines
- Environmental Input and Evaluation of Spatial Development Frameworks
- State of Environmental Reports
- Compilation of Environmental Legislation and Policy Documents
- Environmental Auditing and Monitoring
- Environmental Control Officer (ECO)
- Visual Impact assessments
- Specialist Assistance with Environmental Legislation Issues and Appeals
- Development Process Management
- Water Use License applications to DWA

Water Licence Application



04 Services
Consulting Services

02 Landscape Architecture

- Master Planning
- Sketch Plans
- Planting Plans
- Working Drawings
- Furniture Design
- Detail Design
- Landscape Development Frameworks
- Landscape Development Plans (LDP)
- Contract and Tender Documentation
- Landscape Rehabilitation Works

03 Landscape Contracting

Implementation of Plans for:

- Office Parks
- Commercial/ Retail / Recreational Development
- Residential Complexes
- Private Residential Gardens
- Implementation of Irrigation systems



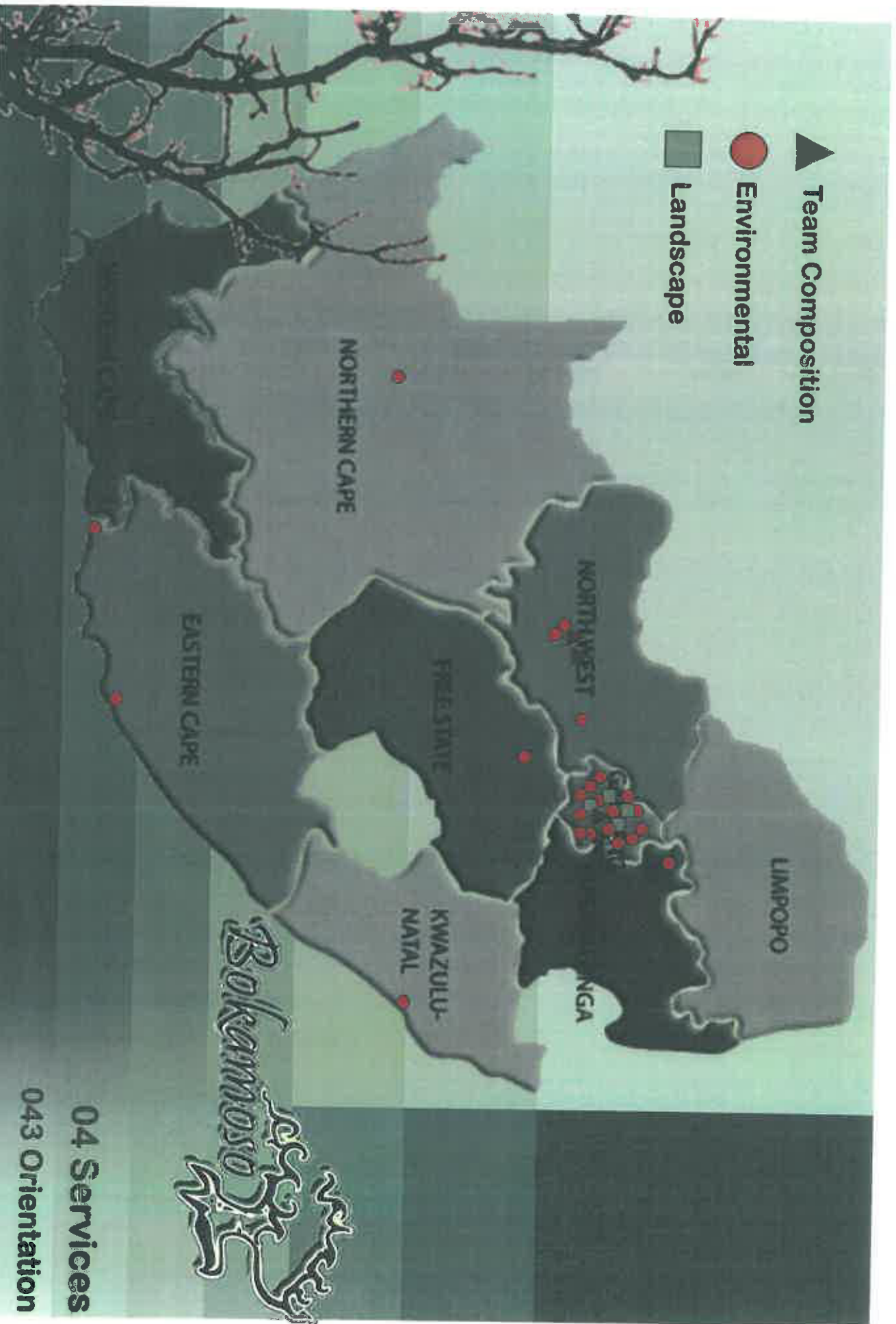
04 Services

Contracting Services

▲ Team Composition

● Environmental

■ Landscape



Bokamoso

04 Services

043 Orientation

01 Valpre Bottling Plant, Heidelberg



project

shelter site plan



15 Landscape Projects - Current

051 Commercial



01 Valpre Bottling Plant, Heidelberg

concept plan

treated water discharge line
attenuation pond
wetland planting
natural veld

project
shades attenuation pond

concept plan

natural veld
rock-clad planted water feature
entrance trees
Acacia groupings
veldgrass
rock groupings planting areas

project
shades main entrance

Garry oak saligna
Acacia karroo



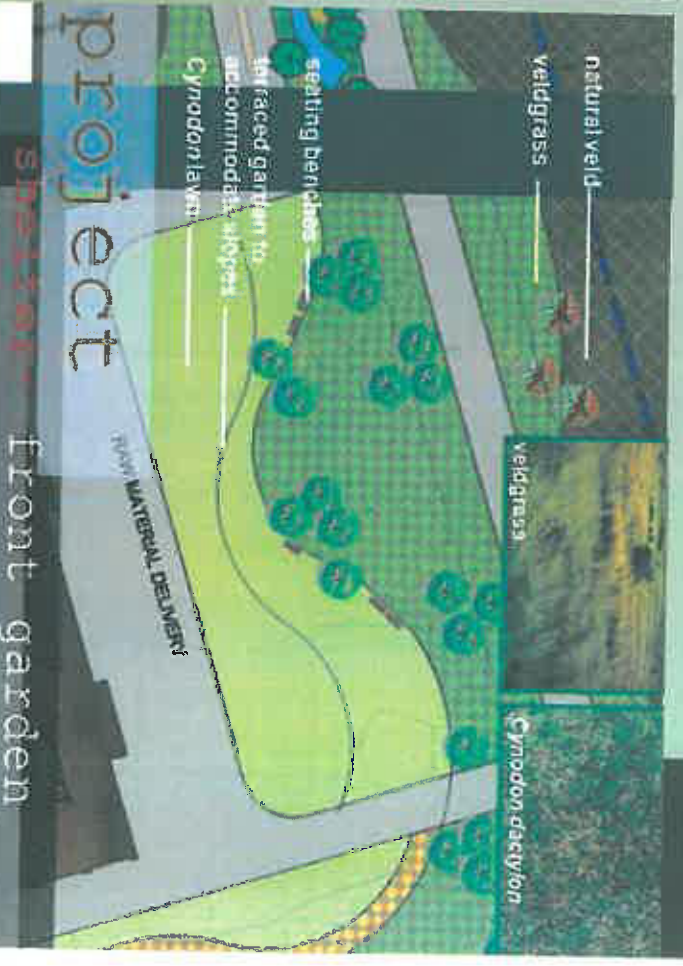
Bokamoso

05 Landscape Projects - Current

051 Commercial

01 Valpre Bottling Plant, Heidelberg

concept plan



project

project

spotlight

spotlight

gatehouse

front garden



05 Landscape Projects—Current

051 Commercial

01 Valpre Bottling Plant, Heidelberg

concept plan - option 1

entrance mosaic
 ornamental lawn
 raised planters
 row of trees in paving
 water feature
 wave paving pattern
 planting strip
 mosaic strip

project

Spelter offices / parking

concept plan - option 2

trees in tree rings
 trough water feature
 small water features
 open gathering / seating area
 planter
 trees in pots

project

Spelter offices / parking

051 landscape Projects - Current

Bokamoso

051 Commercial

03 Grain Building, Pretoria



05 Landscape Projects - Completed

053 Offices



04 Ismail Dawson offices, Pretoria



Bokamoso

05 Landscape Projects – Conceptual

053 Offices



05 Celtic Manor, Pretoria



Bokamoso

05 Landscape Projects - Completed

05 Complex Development

05/10/2014

05 The Wilds, Pretoria



05 Landscape Projects – Completed

Complex Development

07 The Wilds, Pretoria



SAATCHI & SAATCHI
Bokamoso

05 Landscape Projects – Completed

055 Residential



08 The Wilds, Pretoria



Bokamoso

05 Landscape Projects – Completed

055 Residential



09 The Wilds, Pretoria



Bokamoso
Savoy
Savoy

05 Landscape Projects – Completed

055 Residential

010 The Wilds, Pretoria



05 Landscape Projects – Completed

055 Residential

Bokamoso
Landscape
Solutions

012 House Ismail, Pretoria



Front Garden



Back Garden



Bokamoso

05 Landscape Projects - Conceptual

055 Residential

013 Forest Garden, Pretoria

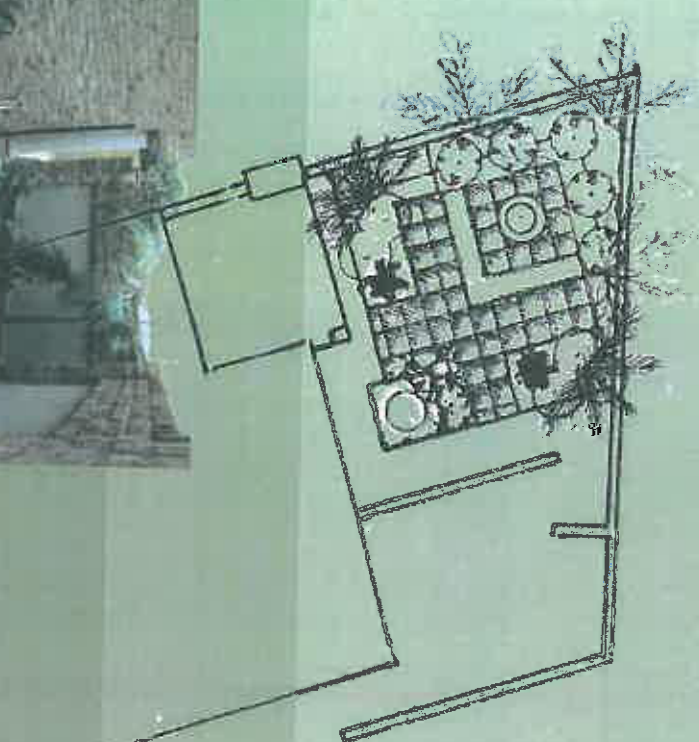


Bokamoso
Landscape Design

055 Landscape Projects – Completed

055 Residential

015 Forest Garden, Pretoria



Bokamoso

00 Landscape Projects - Completed

055 Residential

01 Safari Garden Expo

Received a Silver Certificate at the Safari Garden Expo, 2010



Bokamoso

06 Corporate Highlights

061 Awards

02 UNISA Sunnyside Campus, Pretoria

Best Commercial Paving Plan in Gauteng, 1997



06 Corporate Highlights

061 Awards

Project Name	Status	Project
Environmental Impact Assessment(EIA) and Scoping Report		
Junction 21	ROD	EIA
5 O'clock site access	In Progress	EIA
Bokamoso X 1	In Progress	Scoping & EIA
Doornvallei Phase 6 & 7	In Progress	EIA
Engen Interchange	In Progress	Scoping & EIA
Erasmia X15	In Progress	EIA
Franschhoek	In Progress	EIA
K113	Amendment of ROD	EIA
K220 East	ROD	EIA
K220 West	ROD	EIA
K54 ROD conditions	In Progress	EIA
Knopjeslaagte 95/Peachtree	ROD	EIA
Knopjeslaagte portion 20 & 21	ROD	EIA
Lilleslie/Nooitgedacht	In Progress	EIA
Mooiplaats 70 (Sutherland)	In Progress	EIA
Naauppoort 1 - 1/2/Valley View	In Progress	EIA
Peachtree X5	In Progress	EIA
Strydomfontein 60	In Progress	EIA
Tinabe Molswere	In Progress	Scoping & EIA
Vlakplaats	In Progress	EIA
Waterval Valley	In Progress	EIA
Environmental Opinion		
Doornkloof/68 (Ross)	In Progress	Opinion
Monavoni X 53	In Progress	BA & Opinion
Neelkloof (1/5/1)	In Progress	Opinion
Normixval Mall/Sandfontein	In Progress	Opinion
Riversonia X3	In Progress	Opinion

The adjacent list host the status of our current projects. Only a selected amount of projects are displayed.



07 Current Environmental Projects:
EIA, Scoping & Opinion

Project Name	Status	Project
Basic Assessment(BA)		
Annlin X 138	In Progress	BA
Clubview X 29	ROD	BA
Darrenwood Dam	In Progress	BA
Durley Holding 90 & 91	In Progress	BA
Elim	In Progress	BA
Fochville X 3	In Progress	BA
Hartebeeshoek 251	In Progress	BA
Klerksdorp (Mattosana Mail)	In Progress	BA
Monavoni External Services	ROD	BA
Monavoni X 45	Amendment of ROD	BA
Montana X 146	In Progress	BA
Rooihuiskraal X29	In Progress	BA
Thorntree Mail	In Progress	BA
Environmental control officer (ECO)		
Grace Point Church	In Progress	ECO
R 81	In Progress	ECO
Highveld X 61	In Progress	ECO
Mail of the North	In Progress	ECO
Olievenhoutbosch Road	In Progress	ECO
Orchards 39	In Progress	ECO
Pietra van Rynveldt Passenier	In Progress	ECO
Project Shelton	In Progress	ECO

S24 G

07 Current Environmental Projects

072 BA, ECO & S24 G



Project Name	Status	Project
Objection		
Colesberg WWTW	In Progress	Objection
Nigel Steelmill	Completed	Objection
Chantilly Waters	Completed	Objection
Development facilitation Act- Input (DFA)		
Burgersfort	In Progress	DFA & BA
Doornpoort Filling Station	In Progress	DFA & EIA & Scoping
Eastwood Junction	In Progress	DFA
Ingersol Road (Erf 78, 81 - 83)	In Progress	DFA
Roos Senekal	In Progress	DFA & EIA & Scoping
Thaba Meetse 1	In Progress	DFA & EIA & Scoping
Water Use License Act (WULA)		
Britstown Bulk Water Supply	In Progress	WULA
Gelery Road / Green Channel	In Progress	WULA
Clayville X 46	In Progress	WULA
Dindingwe Lodge	In Progress	WULA
Doornpoort Filling Station	In Progress	WULA+DFA+EIA+SC
Eco Park Dam	In Progress	WULA
Groote Drift Poth: Jozini Shopping Centre	In Progress	WULA
Ken	Completed	WULA+BA
Melalo Roads	In Progress	WULA
Kwazela Sewage Works	In Progress	WULA
Mokwauu Extension Sanyes	In Progress	WULA
Mahl Ece Estuar	In Progress	WULA+BA
Pratle Glans X 7	In Progress	WULA



07 Current Environmental Projects
Objection, DFA & WULA

Project Name	Status	Project
Environmental Management Plan(EMP)		
Heidelberg X 12	ROD	EMP
Monavoni Shopping Centre	Completed	EMP
Forest Hill Development	Completed	EMP
Wellevreden Farm 105KQ	Completed	EMP+EIA
Raslouw Holding 93	Completed	EMP+BA
Durley Development	Completed	EMP+BA
Rooihuiskraal North X 28	Completed	EMP

Rehabilitation Plan		
Norwood Mall/Sandspruit	In Progress	Rehabilitation
Project Shelter Heidelberg	In Progress	Rehabilitation
Sagewood Attenuation Pond	ROD	Rehabilitation
Velmore Hotel	Completed	Rehabilitation
Grace Point Church	Completed	Rehabilitation
Whameloqi Pipeline	Completed	Rehabilitation

Visual Impact Assessment		
Swatzkop Industrial Development	Completed	Assessment + DFA
Erasmia	Completed	Assessment
Signage Application		
Mentyn Advertising	Completed	Signage
The Villa Mall	Completed	Signage+EMP+BA


07 Current Environmental Projects
 EMP, Rehabilitation, Waste Management & Signage Application



- Billion Property Group
- Cavaleros Developments
- Centro Developers
- Chaimberlains
- Chieftain
- Century Property Group
- Coca Cola
- Elmado Property Development
- Flanagan & Gerard
- Gautrans
- Hartland Property Group
- Moolman Group
- MTN
- M&T Development
- Old Mutual
- Property Investment Company
- Petroland Developments
- RSD Construction
- SAND
- Stephan Parsons
- Twin City Developments
- Urban Construction
- USN



08 Indicative Clients

- 
- Adobe Illustrator CS3
 - Adobe Photoshop CS3
 - Adobe InDesign CS3
 - AutoCAD
 - Google SketchUP
 - GIS
 - Microsoft Office Word
 - Microsoft Office Excel
 - Microsoft Office Publisher
 - Microsoft Office Power Point

Bokamoso

Qualifications And Experience In The Field Of Environmental Planning And Management (Lizelle Gregory (Member Bokamoso)):

Qualifications:

- Qualified as **Landscape Architect** at UP 1991;
- Qualified as **Professional Landscape Architect** in 1997;
- A Registered Member at The South African Council for the Landscape Architect Profession (SACLAP) with Practise Number: **PrLArch97078**;
- A Registered Member at the **International Association for Impact Assessment Practitioners (IAIA)**;
- Qualified as an **Environmental Auditor** in July 2008 and also became a Member of the International Environmental Management Association (IEMAS) in 2008.

Working Experience:

- Worked part time at Eco-Consult – 1988-1990;
- Worked part time at **Plan Associates as Landscape Architect in training** – 1990-1991;
- Worked as Landscape Architect at **Environmental Design Partnership (EDP)** from 1992 - 1994
- Practised under **Lizelle Gregory Landscape Architects** from 1994 until 1999;
- lectured** at Part-Time at **UP** (1999) – Landscape Architecture and **TUT** (1998- 1999)- Environmental Planning and Plant Material Studies;
- Worked as **part time Landscape Architect and Environmental Consultant at Plan Associates and managed their environmental division for more than 10 years** – 1993 – 2008 (assisted the **PWV Consortium** with various road planning matters which amongst others included environmental Scans, EIA's, Scoping reports etc.)
- Renamed business as **Bokamoso in 2000** and is the only member of Bokamoso Landscape Architects and Environmental Consultants CC;
- More than 20 years experience in the compilation of Environmental Reports**, which amongst others included the compilation of various **DfA Regulation 31 Scoping Reports**, EIA's for EIA applications in terms of the applicable environmental legislation, Environmental Management Plans, Inputs for Spatial Development Frameworks, DP's, EMF's etc. Also included EIA Application on and adjacent to mining land and slimes dams (i.e. Brahm Fisherville, Doornkop)

Qualifications And Experience In The Field Of Landscape Architecture (Lizelle Gregory (Member Bokamoso)):

Landscape Architecture:

-Compiled landscape and rehabilitation plans for more than 22 years.

The most significant landscaping projects are as follows:

- Designed the Gardens of the Witbank Technicon (a branch of TUT). Also supervised the implementation of the campus gardens (2004);
 - Lizelle Gregory was the Landscape Architect responsible for the paving and landscape design at the UNISA Sunnyside Campus and received a Corobrick Golden Award for the paving design at the campus (1998-2004);
 - Bokamoso assisted with the design and implementation of a park for the City of Johannesburg in Tembisa (2010);
 - The design and implementation of the landscape gardens (indigenous garden) at the new Coca-Cola Valpre Plant (2012-2013);
 - Responsible for the rehabilitation and landscaping of Juksei River area at the Norwood Shopping Mall (Johannesburg) (2012-2013);
 - Designed and implemented a garden of more than 3,5ha in Randburg (Mc Arthurpark). Bokamoso also seeded the lawn for the project (more than 2,5 ha of lawn successfully seeded) (1999);
 - Bokamoso designed and implemented more than 800 townhouse complex gardens and submitted more than 500 Landscape Development Plans to CTMM for approval (1995 – 2013);
 - Assisted with Landscape Designs and the Masterplan at Eco-Park (M&T Developments) (2005-2011);
 - Bokamoso designed and implemented an indigenous garden at an office park adjacent to the Bronberg. In this garden it was also necessary to establish a special garden for the Juliana Golden Mole. During a recent site visit it was established that the moles are thriving in this garden. Special sandy soils had to be imported and special indigenous plants had to be established in the natural section of the garden.
- Lizelle Gregory also owns her own landscape contracting business. **For the past 20 years she trained more than 40 PDI jobless people (sourced from a church in Mamelodi)** to become landscape contracting workers. All the workers are (on a continuous basis) placed out to work at nurseries and other associated industries;
- Over the past 20 years the Bokamoso team compiled more than 800 landscape development plans and also implemented most of the gardens. Bokamoso also designed and implemented the irrigation for the gardens (in cases where irrigation was required). Lizelle regarded it as important to also obtain practical experience in the field of landscape implementation.

