



**DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED DEMARCATION
OF SITES ON PORTIONS OF THE FARM MOSCHKE 223-LT AND PLANGE 221-
LT, IN JILONGO UNDER THE JURISDICTION OF COLLINS CHABANE LOCAL
MUNICIPALITY, LIMPOPO PROVINCE.**

PREPARED BY:

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0004

PREPARED FOR:



Collins Chabane Local Municipality
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AUGUST 2020



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF ECONOMIC DEVELOPMENT, ENVIRONMENT & TOURISM

BASIC ASSESSMENT REPORT - EIA REGULATIONS, 2014

Basic Assessment report in terms of the Environmental Impact Assessment Regulations, 2014, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

File Reference Number:

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NEAS Reference Number:

(For official use only)

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>

7. The Act means the National Environmental Management Act (No. 107 of 1998) as amended.

The heartland of southern Africa – development is about people!

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: -

<p><u>Postal Address:</u> Central Administration Office Environmental Impact Management P. O. Box 55464 POLOKWANE 0700</p>	<p><u>Physical Address:</u> Central Administration Office Environmental Affairs Building 20 Hans Van Rensburg Street / 19 Biccard Street POLOKWANE 0699</p>
<p>Queries should be directed to the Central Administration Office: Environmental Impact Management: -</p> <p>For attention: Mr E. V. Maluleke Mobile: 082 947 7755 Email: malulekeev@ledet.gov.za</p>	

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

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:

Mang Geoviro Services has been appointed by Ngoti Development Consultants on behalf of Collins Chabane Local Municipality as an Independent Environmental Assessment Practitioners (EAP) to undertake a Basic Assessment Process for the proposed demarcation of 100 sites on portions of the farm Moschke 223-LT and Plange 221-LT, in Jilongo, under the jurisdiction of Collins Chabane Local Municipality, Limpopo Province.

The proposed project entails the demarcation of 100 sites for:

- 91 residential use,
- 5 public open space,
- 2 business sites,
- 1 Place of worship and
- 1 institutional site.

The proposed development site is 14, 6 hectares.

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;

The current preferred location is ideal as it is next to an existing township Jilongo. The site will also be easily accessible to the surrounding community. This is the only location alternative that will be considered in this Basic Assessment Report.

- (b) the type of activity to be undertaken;

The current preferred activity is deemed to be the only feasible activity alternative.

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.

(c) the design or layout of the activity;

The layout will not have a high impact on the environment, as long as it complies with criteria listed in this report as well as an EMPr .

(d) the technology to be used in the activity;

The proposed demarcation of sites will be under controlled conditions and it is not expected to have negative effects on the quality of the environment. All the mitigation measures are provided in the Environmental Management Plan.

(e) the operational aspects of the activity; and

The operational aspects of the activity will contribute towards improved housing and general livelihood for the local communities. No other alternatives were deemed feasible other than the proposed activity.

(f) the option of not implementing the activity.

It is mandatory to consider the “no-go” option in the EIA process. The “no-go” alternative refers to the current status quo and the risks and impacts associated with it. Some existing activities may carry risks and may be undesirable.

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.

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 Hartebeeshoek 94 WGS84 spheroid in a national or local projection.

List alternative sites, if applicable.

Latitude (S):

Longitude (E):

Alternative:

Alternative S1² (preferred or only site alternative)

23°	05'	48.07"	30°	51'	38.26"
°	'	"	°	'	"
°	'	"	°	'	"

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)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

°	'	"	°	'	"
°	'	"	°	'	"
°	'	"	°	'	"

Alternative S2 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

°	'	"	°	'	"
°	'	"	°	'	"
°	'	"	°	'	"

Alternative S3 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

°	'	"	°	'	"
°	'	"	°	'	"
°	'	"	°	'	"

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

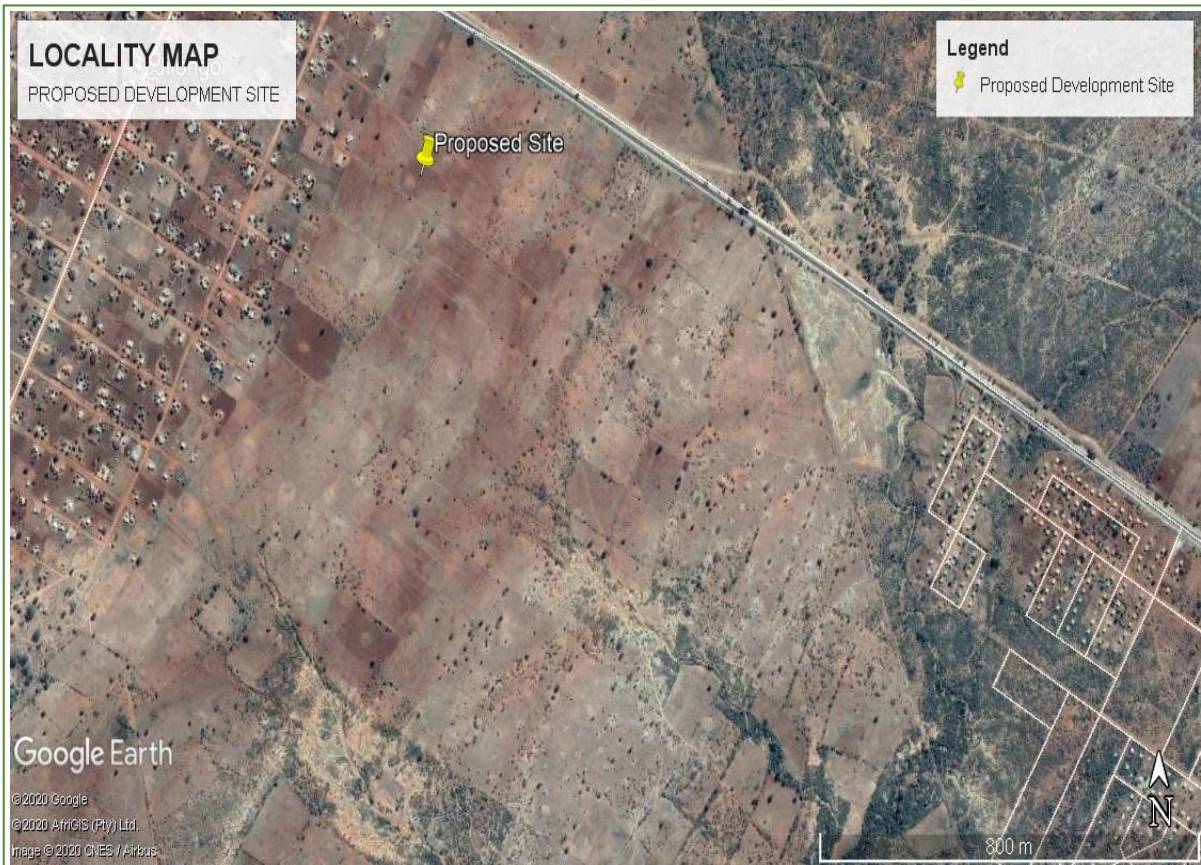


Figure 1: Locality map (aerial) of the proposed development site.

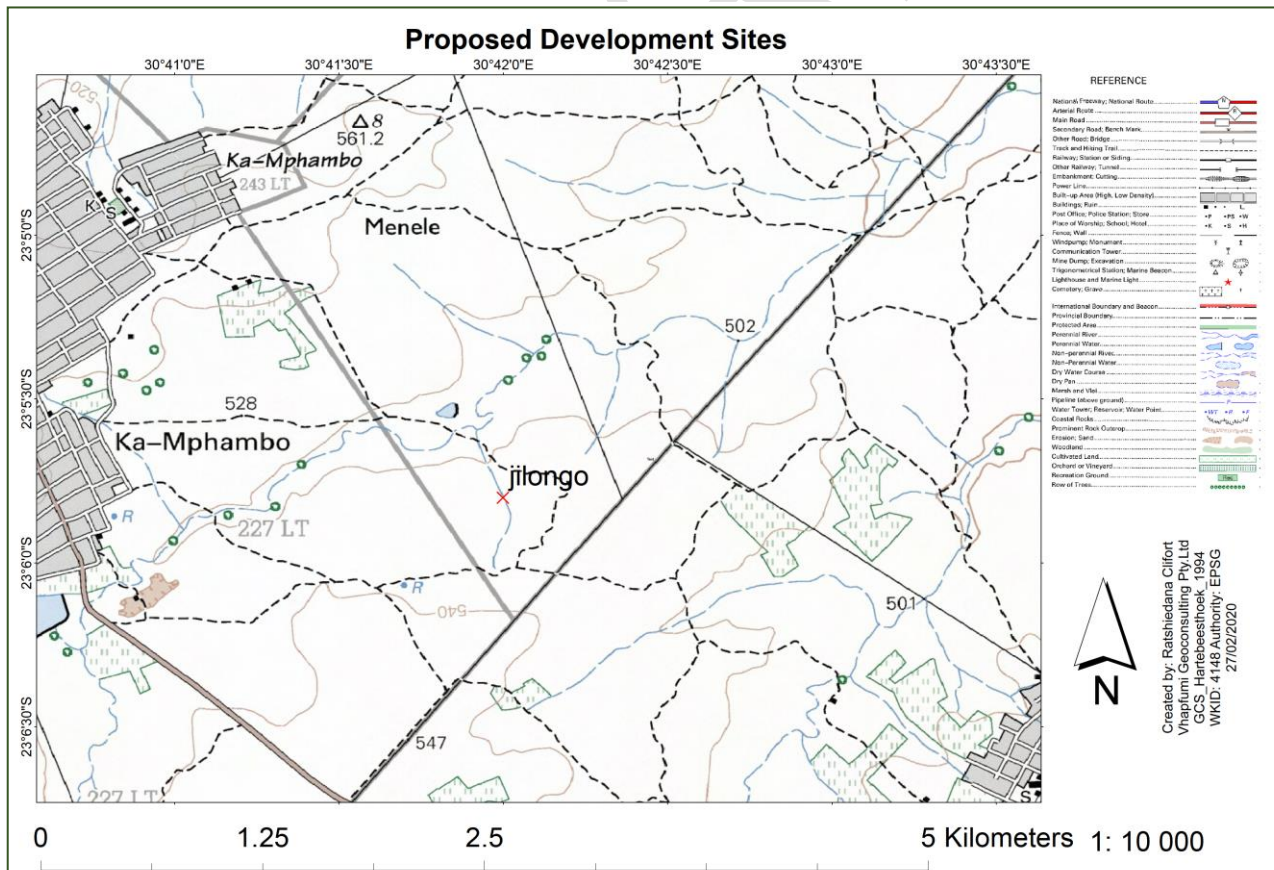


Figure 2: Locality map (topographical) of the proposed development site.

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

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,

for linear activities:

Size of the activity:

14, 6 hectares
m ²
m ²

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	NO

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

Describe the type of access road planned:

The proposed development can be accessed from road D4 from Malamulele to Mtititi.

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.

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

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.

Site photographs will be attached on Appendix B

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.

11. ACTIVITY MOTIVATION

9(a) Socio-economic value of the activity

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

R1 500 000.0
0

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

Unknown

Will the activity contribute to service infrastructure?

YES	NO
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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?

YES	NO
Unknown	
Unknown	
Unknown	
Unknown	
Unknown	
90%	

9(b) Need and desirability of the activity

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

NEED:			
i.	Was the relevant municipality involved in the application?	YES	NO
ii.	Does the proposed land use fall within the municipal Integrated Development Plan?	YES	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	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	NO
iii.	Will the benefits of the proposed land use / development outweigh the negative impacts of it?	YES	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
vi.	Will the proposed land use / development set a precedent?	YES	NO
vii.	Will any person's rights be affected by the proposed land use / development?	YES	NO
viii.	Will the proposed land use / development compromise the "urban edge"?	YES	NO
ix.	If the answer to any of the question 5-8 was YES, please provide further motivation / explanation.		

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BENEFITS:			
i.	Will the land use / development have any benefits for society in general?	YES	NO
ii.	<p>Explain: The proposed development will bring the community improved provision of formal residential stands, according to a layout plan as well as the general livelihoods for the residents.</p> <p>At present, parts of the study area comprises of exposed soils that often because dust pollution during the windy seasons.</p> <p>Other parts of the study area comprises of exposed soils that often because dust pollution during the windy season. The exposed areas will eventually cause soil degradation, erosion, siltation and water pollution. Such environmental impacts could be far reaching and are not only limited to the study area. The proposed development will therefore also address the current problem.</p>		
iii.	Will the land use / development have any benefits for the local communities where it will be located?	YES	NO
iv.	According to the 2030 National Development Plan (NDP) Executive Summary; The National Development Plan makes a firm commitment to achieving a minimum standard of living which can be progressively realised through a multi-pronged strategy, which includes proper housing.		

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:
National Environmental Management Act, 1998 (Act No.107 of 1998) Environmental Impact Assessment (EIA) Regulations and associated Listing Notices.	National Department of Environmental Affairs and Provinces.	2014 as Amended
National Environmental Management: Air Quality Act, 2004 (Act No.39 of 2004).	DEA, Provinces and Municipalities	2004
National Environmental Management: Protected Areas Act, 2003 (Act No. 57 of 2003)	National Department of Environmental Affairs.	2003
National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004)	National Department of Environmental Affairs.	2004
National Environmental Management: Waste Act, 2008 (Act 59 of 2008)	National Department of Environmental Affairs and all Provinces	2008
The Development Facilitation Act, 1995 (Act No. 67 of 1995)	National Department of Rural Development and Land Reform	1995

The National Water Act, 1998 (Act No.36 of 1998)	National Department of Water and Sanitation	1998
The National Heritage Resources Act, 1999 (Act 25 of 1999) (NHRA)	National Department of Arts and Culture	1999
The Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983)	National Department of Agriculture, Forestry and Fisheries	1983
Collins Chabane Spatial Planning, Land Development and Land Use Management By-Law,	Collins Chabane Local Municipality	2019

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	NO
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If yes, what estimated quantity will be produced per month?

The amount of waste will be known and made available during the construction phase
--

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

All solid waste generated during the construction phase will be placed in bulk waste collection area in the construction camp. Litter collection bins will be provided within the construction site not far from each other and will be regularly be disposed. Separation of waste and recycling of paper, glass, cardboards, etc. must be a priority. There will be no burning of waste on site and construction materials that will not be used will be taken out once construction comes to an end.

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

All construction solid waste will be disposed at the nearest landfill site.

Will the activity produce solid waste during its operational phase?
If yes, what estimated quantity will be produced per month?

YES	NO
10 m ³	

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

Different kinds of waste will be produced during the operational phase of the development of which none of the waste will be of magnitude concern. The solid waste will consist of general refuse (litter) generated by the residents. The local municipality will have to be engaged with regards to the collection and refuse removal services for the proposed development.

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

Solid waste will be disposed at the nearest landfill site.

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
-----	----

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
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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
-----	----

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

	m ³
--	----------------

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

Yes	NO
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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	NO
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If yes, provide the particulars of the facility:

Facility name:	Not Applicable		
Contact person:	Not Applicable		
Postal address:	Not Applicable		
Postal code:	Not Applicable		
Telephone:	Not Applicable	Cell:	Not Applicable
E-mail:	Not Applicable	Fax:	Not Applicable

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

Not Applicable

11(c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

YES	NO
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 emissions in terms of type and concentration:

Dust from construction activities. We therefore suggest that a detailed Air Quality Study would not be necessary.

11(d) Generation of noise

Will the activity generate noise?

YES	NO
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:

General construction noise.

12. WATER USE

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

<input checked="" type="checkbox"/> municipal	<input type="checkbox"/> water board	<input type="checkbox"/> groundwater	<input type="checkbox"/> river, stream, dam or lake	<input type="checkbox"/> other	<input type="checkbox"/> 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:

	Litres
YES	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.

13. ENERGY EFFICIENCY

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

Design measures will completely be environmentally friendly. The following measures will be considered:

- The architectural design will ensure that there will be a proper natural flow of air into and outside of the building occurs deliberately as ventilation.

Proper insulation of the ceilings is required because as much as 50% of heat losses in a building can be attributed to a lack of ceilings and ceiling insulation, this will significantly reduce heating and cooling expenses.

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

Air Conditioners

- Energy efficient air conditioners must be purchased and used.

Power Supply

- Conservation of energy or the usage of renewal and sustainable energy technology must be a priority. This can be in the form of solar panels that generate and store electricity.

Lighting

- Compact fluorescent light bulbs are recommended as compared to ordinary light bulbs as they also assist for security purpose too.

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
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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:

Moschke 223-LT and Plange 221-LT

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

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:

Agriculture

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
-----	----
- Must a building plan be submitted to the local authority?

YES	NO
-----	----

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)

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
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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
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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	
2.3 Side slope of hill/mountain		2.8 Dune	
2.4 Closed valley		2.9 Seafront	
2.5 Open valley			

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	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 veld with scattered aliens ^E	Natural veld with heavy alien infestation ^E	Veld dominated by alien species ^E	Gardens
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.

Please refer to specialist study (Appendix D- Ecological / Biodiversity Study).

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

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

Not Applicable

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	YES	NO
Archaeological or palaeontological sites, on or close (within 20m) to the site?	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:	<p>Archaeological No archaeological materials were found in the study area.</p> <p>Historical No historical sites/materials found on site.</p> <p>Burial grounds and graves No graves were identified on site</p>	
Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO

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.

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SECTION C: PUBLIC PARTICIPATION

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.

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.

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.

Advertisements and notices will be placed once the EIA application has been submitted to the competent authority.

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.

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 comments and response report will be attached on Appendix E.

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)
Department of Water and Sanitation	No
Vhembe District Municipality	No
South African Heritage Resources Agency (SAHRA)	No
RAL	No
Collins Chabane Local Municipality	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
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If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014, 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.

1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

None

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):

There were no issues raised so far that must be addressed by the practitioner.

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)

Design/Planning Phase			
IDENTIFIED IMPACTS- PLANNING PHASE			
IMPACT	SIGNIFICANCE RATING OF IMPACT BEFORE MITIGATION	PROPOSED MITIGATION	SIGNIFICANCE RATING OF IMPACT AFTER MITIGATION
Direct Impacts			
Poor Design- Structural failures	High (Negative)	Ensure compliance with the industry standards	Low (Negative)
Indirect Impacts			
Disregard of legislative requirement	High (Negative)	Ensure compliance with relevant legislation and legal standards	Low (Negative)

Construction Phase			
IDENTIFIED IMPACTS- CONSTRUCTION PHASE			
IMPACT	SIGNIFICANCE RATING OF IMPACT BEFORE MITIGATION	PROPOSED MITIGATION	SIGNIFICANCE RATING OF IMPACT AFTER MITIGATION
Direct Impacts			
Loss of vegetation and faunal habitat, specifically the secondary woodland areas from construction phase of the development.	Medium (Negative)	<ul style="list-style-type: none"> • Maintain the viability of the indigenous seed bank in excavated soil so that it can be used for subsequent re-vegetation of any disturbed areas. • Prevent impact of construction activities to extend on to neighbouring land-demarcated and fenced construction camp; strict control of labourers. • Avoid unnecessary loss of indigenous trees. 	Low (Negative)
Increased risk of dust and erosion from clearing of vegetation and earth moving vehicles	Medium (Negative)	<ul style="list-style-type: none"> • All vehicles must be along existing lines or tracks. • Erosion protection measures must be implemented on the site to reduce erosion and sedimentation of the receiving environment. Measures could include: <ul style="list-style-type: none"> • Sediment traps • Sandbags • Bunding around soil stockpiles. • Adequate dust control strategies should be applied to minimise dust disposition, they can include periodic spraying of roads with water, cover trucks to prevent dust emission during transportation. 	

Waste collection services	High	<ul style="list-style-type: none"> Confirmation from the municipality must be sought to ensure the municipal waste collection service will collect the waste generated by the proposed development/ activity 	Low (Negative)
Potential noise impact from the use of construction equipment (for the construction of the proposed development)	Medium (Negative)	<ul style="list-style-type: none"> Limit construction activities to day time hours. Construction personnel must wear personal protective equipment where appropriate. All machineries to be utilised on the site must be fitted with muffers and must be maintained in good working conditions in order to minimize noise. The contractor shall warn all local community that could be affected by the noise generation from construction activities. 	Low (Neutral)
Increase in stormwater runoff resulting from construction activities	Medium (Negative)	<ul style="list-style-type: none"> To prevent stormwater damage, the increase stormwater runoff resulting from construction activities must be estimated and drainage patterns accessed accordingly. Temporary cut off drains and berms may be required to capture stormwater and promote infiltration. 	Low (Negative)
Potential health injuries to construction personnel as a result of construction work.	Medium (Neutral)	The contractor must ensure that all construction personnel are provided with adequate PPE for use where appropriate.	Low (Neutral)
Disturbance of Heritage Resources from construction activities.	Low (Negative)	<ul style="list-style-type: none"> SAHRA must immediately be alerted in case evident or artefacts, paleontological fossils, additional graves or heritage resources are discovered during the course of development. 	Negligible
Socio-economic Impact:	Medium	<ul style="list-style-type: none"> Enhance the use of local labour and 	High (Positive)

<p>Employment creation and skills development opportunities during the construction phase, which is expected to give rise to new jobs. This impact is rated as positive.</p>	<p>(Positive)</p>	<p>local skills as far as reasonably possible.</p> <ul style="list-style-type: none"> • Where the required skills do not occur locally, and where appropriate and applicable, ensure that relevant local individuals are trained. • Ensure that an equitable percentage allocation is provided for local labour employment as well as specify the use of small-to-medium enterprises and training specifications in the Contractors contract. • Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible. 	
<p>Air quality impact: Emissions from construction vehicles and generation of dust as a result of earthworks, as well as the delivery and mixing of construction materials.</p>	<p>Medium (Negative)</p>	<ul style="list-style-type: none"> • Ensure that cleared (excavated) areas and unpaved surfaces are sprayed with water (obtained from an approved source) to minimise dust generation. • Approved soil stabilizers may be utilised to limit dust generation. • Ensure that construction vehicles travelling on unpaved roads do not exceed a speed limit of 40 km/hour. • Adequate dust control strategies should be applied to minimise dust deposition, for example: Periodic spraying of the entrance road and environmentally-friendly dust control measures (e.g. mulching and wetting) where and when dust is problematic 	<p>Low (Negative)</p>
Indirect Impacts			
<p>Socio-economic impact: the community will benefit from the proposed development. This impact is rated as positive.</p>	<p>Low (Positive)</p>	<p>Ensure that local industries are utilised as suppliers, where applicable/practical.</p>	<p>Medium (Positive)</p>

No-go alternative			
<p>Direct Impacts:</p> <ul style="list-style-type: none"> None of the impacts mentioned above will occur. <p>Indirect Impacts:</p> <p>There are no indirect impacts during the construction phase for the No-go Option.</p> <p>Cumulative Impacts:</p> <p>There are no cumulative impacts during the construction phase for the No-go Option.</p>			
Operational Phase			
IDENTIFIED IMPACTS- OPERATIONAL PHASE			
IMPACT	SIGNIFICANCE RATING OF IMPACT BEFORE MITIGATION	PROPOSED MITIGATION	SIGNIFICANCE RATING OF IMPACT AFTER MITIGATION
Direct Impacts			
Visual impacts will increase during the operation phase due to development and lighting	High	<ul style="list-style-type: none"> Lighting and layout to be maintained as per the layout plan to ensure bright street lighting is not permitted 	Low
Lack of road maintenance will lead to a deterioration in the internal and access roads	High	<ul style="list-style-type: none"> Road maintenance must be done regularly by the Collins Chabane Municipality 	Low
Risk of fire explosion	Medium (Negative)	<ul style="list-style-type: none"> Prevent spread of fire to surrounding buildings or vegetation. Adequate firefighting training must be given to staff. Ensure that relevant signage e.g. no smoking, is displayed in potentially dangerous areas and is abided by. 	Low (Negative)
The development may lead to an increase in crime	High	<ul style="list-style-type: none"> Ensure effective measures are included in the operation of the development to reduce the chances of crime increase 	Low
Socio-economic Impact: Skills development opportunities and economic spin off activities will also occur during the operational	Medium (Positive)	<ul style="list-style-type: none"> Enhance the use of local labour and local skills as far as reasonably possible. Where the required skills do not occur locally, and where appropriate and 	High (Positive)

phase. This impact is rated as positive.		<p>applicable, ensure that relevant local individuals are trained.</p> <ul style="list-style-type: none"> • Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible. 	
Indirect Impacts			
Impact on the surrounding community in terms of visibility and great environment	Medium (Negative)	<ul style="list-style-type: none"> • Ensure that surrounding gardens are well maintained. The planting of indigenous vegetation is encouraged. • Use water sparingly in maintaining gardens. • Institute an appropriate building and site maintenance programme. 	Low (Negative)
No-go alternative			
<p>Direct Impacts</p> <ul style="list-style-type: none"> • None of the impacts mentioned above will occur. <p>Indirect Impacts</p> <p>There are no indirect impacts during the operation phase for the No-go Option.</p> <p>Cumulative Impacts</p> <p>There are no cumulative impacts during the operational phase for the No-go Option</p>			

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)

From the impact assessment of the biophysical and socio-economic aspects discussed in detail in this report it is evident that the proposed development is suitable for the site assessed.

It should however be noted that this is only if the development is planned and managed in accordance with the mitigation measures supplied described in this report, the specialist studies (especially the mitigation measures as supplied in the geotechnical, ecological and heritage reports) and in the Environmental Management Programme (EMPr). Furthermore, this project will also create employment opportunity for local residents.

The socio-economic environment

During Construction Phase:

The proposed development will have a positive impact on the economy due to temporary employment opportunities more especially to the surrounding community.

During Operational Phase:

The proposed development will have a positive impact on the socio-economic environment during the operational phase due to permanent employment opportunities.

The biophysical environment

During Construction Phase:

The biophysical environment will be affected by construction activities that could result in excessive noise and dust. However, there are mitigation measures put in place to prevent the impacts or minimizing them as explained on the Environmental Management Programme.

During Operational Phase:

All negative impacts that are likely to occur in this phase are not of significance as there are mitigation measures that are already put in place to control and protect the environment.

Results of the impact assessment

None of the adverse impacts that were identified are regarded as impacts that cannot be mitigated to acceptable levels and therefore Mang Geo-Enviro Services is of the opinion that there are no "permanent flaws"

associated with the proposed development.

Based on the results of the Specialist reports the proposed development is deemed as a good and profitable business concept. The impacts that are brought about can be mitigated.

No-go alternative (compulsory)

The No Go Alternative implies that the site is not developed for the purpose of the development. This option will come to the party if the proposed development has significant negative impact that cannot be mitigated effectively. The proposed site does not have any environmental constraints.

Other factors that can contribute to this option include opposite interested and affected parties with valid points to go against the proposed development as well as none compliance with legislations required by organs of sate. No objections have been received thus far as we are still to advertise and have the public participation meetings.

Our views as Mang Geo-Enviro Services, independent EAPs are that the proposed area is suitable for the proposed development based on that the area is not sensible to the environment and it is located within Mtititi Village.

Alternative B

Alternative C

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
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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:

The EAP recommends that the implementation and strict adherence to the EMPr forms part of the conditions of an Environmental Authorisation for the development. The EAP also recommends that all mitigation measures as described in this Basic Assessment Report and specialist studies report be included as part of the conditions of the authorisations granted for the development. Furthermore, the developer should accept responsibility for appointing service providers that comply with the legislative requirements of the country and who have standing agreements with the necessary authorities where required.

The following measures/ plans must also be required as part of the approval:

- Communication or awareness must be undertaken to the project team to ensure maximum participation and compliance to the EMPr.
- The EMP attached and the mitigation measures related to it must be adhered to at all times and the appointed ECO must ensure that the developer complies with the EMP.
- An ECO must be appointed to monitor compliance with the authorization and develop compliance reports to be submitted to the Department during the construction phase.
- It is recommended that adequate storm water management be incorporated in the design of the proposed development in order to prevent erosion and the associated sedimentation of the surrounding areas. All areas affected by construction which are to remain as open space areas should be rehabilitated upon the completion of the construction phase of the development.
- All of the recommendations in the specialist reports that are included as a part of this application should be implemented & strictly adhered to in order to counteract adverse and cumulative impacts to the biophysical & social environments.

Is an EMPr attached?

The EMPr must be attached as Appendix F.

YES	NO
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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: Comments and responses report

Appendix F: Environmental Management Programme (EMPr)

Appendix G: Other information

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SECTION G: DECLARATION BY THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

I, **Mankaleme Maqoro** 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, 2014;
- (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:

Mang Geo-Enviro Services

Name of company:

24 August 2020

Date:

Appendix A: Site Plan(S)

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Appendix B: Photographs

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Appendix C: Facility Illustration(S)

Appendix D: Specialist Reports

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Ecology/ Biodiversity Study

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Heritage Study

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Geotechnical Study

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Engineering Service Report

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Socio-Economic

Appendix E: Comments and Responses Report

Appendix F: Environmental Management Programme (Empr)

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Appendix G: Other Information

Communication to the Interested and Affected Parties

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Details and Expertise of the EAP

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Specialist Declaration Forms