

BASIC ASSESSMENT REPORT



destea

department of
economic, small business development,
tourism and environmental affairs
FREE STATE PROVINCE

(For official use only)

File Reference Number:

Application Number:

Date Received:

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.

Kindly note that:

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 as amended and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
2. This report format is current as of **13 February 2020**. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority
3. 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.
4. Where applicable **tick** the boxes that are applicable in the report.
5. An incomplete report may be returned to the applicant for revision.
6. 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 competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
7. This report must be handed in at offices of the relevant competent authority as determined by each authority.
8. No faxed or e-mailed reports will be accepted.
9. The signature of the EAP on the report must be an original signature.
10. The report must be compiled by an independent environmental assessment practitioner.
11. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
12. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.

BASIC ASSESSMENT REPORT

13. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.
14. Two (2) colour hard copies and one (1) electronic copy of the report must be submitted to the competent authority.
15. Shape files (.shp) for maps must be included in the electronic copy of the report submitted to the competent authority.

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" for the specialist appointed and attach in Appendix I.

1. PROJECT DESCRIPTION

a) Describe the project associated with the listed activities applied for

Mang Geoenviro Services has been appointed by Mafube Local Municipality as an Independent Environmental Assessment Practitioners (EAP) to submit an application for environmental authorisation for the proposed establishment of a township on the remainder of the farm Dorp Frankfort 74 under the jurisdiction of the Mafube Local Municipality in Free State Province.

The geographical coordinates of the site are:

Latitude: 27°17'08.05"S

Longitude: 28°29'59.03"E

The proposed establishment of the Frankfort township will cover approximately 19.5 hectares which will consist of the following:

- 115 Residential facilities
- 3 Open Space and
- Roads

However, there are existing infrastructures (cow kraal and residential areas) within the development site.

The proposed activity requires an Environmental Impact Assessment (EIA) to be undertaken in compliance with the regulatory requirements of the National Environmental Management Act (Act 107 of 1998) (NEMA) and the Environmental Impact Assessment (EIA) Regulations, 2010, GN R.453, R.544 and R546. The EIA consists of two phases, namely the Scoping Phase and the Environmental Impact Assessment Phase.

b) Provide a detailed description of the listed activities associated with the project as applied for

Listed activity as described in GN 327,325 and 324	Description of project activity
R 327, 07 April 2017 Listing Notice 1, Activity 27: The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for— (i) the undertaking of a linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan	The proposed township establishment will involve clearance and preparation of approximately 19.69 hectares space.
R 327, 07 April 2017 Listing Notice 1, Activity 28: Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development: (i) will occur inside an urban area, where the total land to be developed is bigger than 5 hectares; or (ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare; excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.	The proposed development entails establishment of a township for residential purposes.

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 as required by Appendix 1 (3)(h) of GN 326, Regulation 2014 as amended. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity (NOT PROJECT) 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.

BASIC ASSESSMENT REPORT

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, competent authority 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.

The identification of alternatives should be in line with the Integrated Environmental Assessment Guideline Series 11, published by the DEA in 2004. Should the alternatives include different locations and lay-outs, the co-ordinates of the different alternatives must be provided. 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.

a) Site alternatives

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
	27°17'08.05"S	28°29'59.03"E
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)

In the case of linear activities:

Alternative:	Latitude (S):	Longitude (E):
Alternative S1 (preferred)		
• Starting point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
• Middle/Additional point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
• End point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
Alternative S2 (if any)		
• Starting point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
• Middle/Additional point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
• End point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
Alternative S3 (if any)		
• Starting point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
• Middle/Additional point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
• End point of the activity	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>

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.

In the case of an area being under application, please provide the co-ordinates of the corners of the site as indicated on the lay-out map provided in Appendix A of this form.

b) Lay-out alternatives

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)

c) Technology alternatives

Alternative 1 (preferred alternative)
Alternative 2
Alternative 3

d) Other alternatives (e.g. scheduling, demand, input, scale and design alternatives)

Alternative 1 (preferred alternative)		
Alternative 2		
Alternative 3		

e) No-go alternative

--

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

3. PHYSICAL SIZE OF THE ACTIVITY

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

Alternative:

- Alternative A1¹ (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

Size of the activity:

19.69 hectares
m ²
m ²

or, for linear activities:

Alternative:

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

Length of the activity:

m
m
m

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

Alternative:

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

Size of the site/servitude:

m ²
m ²
m ²

4. SITE ACCESS

Does ready access to the site exist?

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

YES	NO
m	

Describe the type of access road planned:

The site can be accessed along the R26 and unnamed gravel road passing next to the site.

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.

5. 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:

¹ "Alternative A.." refer to activity, process, technology or other alternatives.

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- indication of all the alternatives identified;
- closest town(s);
- 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 and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

6. LAYOUT/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:

- the property boundaries and numbers of all the properties within 50 metres of the site;
- the current land use as well as the land use zoning of the site;
- the current land use as well as the land use zoning each of the properties adjoining the site or sites;
- the exact position of each listed activity applied for (including alternatives);
- servitude(s) indicating the purpose of the servitude;
- a legend; and
- a north arrow.

7. SENSITIVITY MAP

The layout/route plan as indicated above must be overlain with a sensitivity map that indicates all the sensitive areas associated with the site, including, but not limited to:

- watercourses;
- the 1:100 year flood line (where available or where it is required by DWS);
- ridges;
- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species); and
- critical biodiversity areas.

The sensitivity map must also cover areas within 100m of the site and must be attached in Appendix A.

8. 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 report. It must be supplemented with additional photographs of relevant features on the site, if applicable.

9. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of at least 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.

10. ACTIVITY MOTIVATION

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

1. Is the activity permitted in terms of the property's existing land use rights?	YES	NO <input checked="" type="checkbox"/>	Please explain
The remainder of the farm Dorp Frankfort 74 is currently zoned as agricultural However, Mafube Local Municipality is in the process of to use the land for the establishment of a township.			
2. Will the activity be in line with the following?			
(a) Provincial Spatial Development Framework (PSDF)	YES <input checked="" type="checkbox"/>	NO	Please explain
According to section B10.1 of the Free State Provincial Development Framework, the Free State, especially the Frankfort area, has a medium housing backlog. In fact, the prioritised strategies and implementation guidelines as set out under section C5.4 of the Free State Spatial Development Framework, stipulates that {C5.4(e)} one of the highest priorities is the rezoning of low-potential agricultural land to accommodate for housing developments. It states further that it generally accepted that public funds be used for the improvement of town structures and functioning, under which housing developments are prioritised. It is therefore evident that the Proposed development is in fact in line with the Free State Provincial Development Framework.			
(b) Urban edge / Edge of Built environment for the area	YES <input checked="" type="checkbox"/>	NO	Please explain
Frankfort is a small farming town situated on the banks of the Wilge River in the Free State province of South Africa.			

BASIC ASSESSMENT REPORT

(c) Integrated Development Plan (IDP) and Spatial Development Framework (SDF) of the Local Municipality (e.g. would the approval of this application compromise the integrity of the existing approved and credible municipal IDP and SDF?).	YES x	NO	Please explain
<p>South Africa has been experiencing rapid urbanization for decades, and this will continue to happen particularly in metropolitan areas and major towns. Combined with increasing urban poverty, adequate housing and inadequate urban policies and planning approaches. This situation is posing a significant threat to the social, economic, and environmental sustainability of cities.</p> <p>Frankfort is not immune to all these challenges. It has a huge housing backlog compared to other municipalities in the Free State.</p> <p>One of the IDP (2017-2022) objectives is to evolve integrated human settlements with varied housing typologies. Furthermore, the municipality will strive to ensure that its future built environment must at least provide for development of suitably located and affordable housing (shelter) and decent human settlements. It is evident that the development is in line with the IDP of the Mafube local Municipality.</p>			
(d) Approved Structure Plan of the Municipality	YES x	NO	Please explain
<p>The remainder of the farm Dorp Frankfort 74 is one of the properties which is proposed for future residential development according to the Approved North Western Structure Plan of the Fezile Dabi District Municipality.</p>			
(e) An Environmental Management Framework (EMF) adopted by the Department (e.g. Would the approval of this application compromise the integrity of the existing environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?)	YES x	NO	Please explain
<p>The development is within an area earmarked for future residential development; the environmental management priorities of the area have been set in line with the anticipated impacts.</p> <p>From the Environmental Assessment it is not anticipated that the proposed development will have major environmental impacts.</p> <p>It is anticipated that sound environmental management measures will be put in place as well as continuing monitoring of the operations. These will further ensure that the environmental priorities set for the area are maintained.</p>			
(f) Any other Plans (e.g. Guide Plan)	YES x	NO	Please explain
<p>It is not anticipated that the development will affect any other local or provincial plans.</p>			

BASIC ASSESSMENT REPORT

<p>3. Is the land use (associated with the activity being applied for) considered within the timeframe intended by the existing approved SDF agreed to by the relevant environmental authority (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)?</p>	YES <input checked="" type="checkbox"/>	NO	Please explain
<p>One of the IDP (2017-2022) objectives is to evolve integrated human settlements with varied housing typologies. Furthermore, the municipality will strive to ensure that its future built environment must at least provide for development of suitably located and affordable housing (shelter) and decent human settlements. It is evident that the development is in line with the IDP of the Mafube Local Municipality. It is therefore in line within the timeframes intended.</p>			
<p>4. Does the community/area need the activity and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.)</p>	YES <input checked="" type="checkbox"/>	NO	Please explain
<p>The Free State Province, especially Frankfort, has a housing backlog which the all relevant departments prioritise to enhance. There is major public need in Frankfort for housing opportunities.</p>			
<p>5. Are the necessary services with adequate capacity currently available (at the time of application), or must additional capacity be created to cater for the development? (Confirmation by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)</p>	YES <input checked="" type="checkbox"/>	NO	Please explain
<p>All necessary services are already in place for the proposed development, mainly due to the area already earmarked for residential development and also due to other residential developments adjacent and near the proposed site.</p>			
<p>6. Is this development provided for in the infrastructure planning of the municipality, and if not what will the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)</p>	YES <input checked="" type="checkbox"/>	NO	Please explain
<p>All necessary services and infrastructure are already in place for the proposed development, mainly due to the area already earmarked for residential development and also due to other residential developments adjacent and near the proposed site.</p>			
<p>7. Is this project part of a national programme to address an issue of national concern or importance?</p>	YES <input checked="" type="checkbox"/>	NO	Please explain
<p>As discussed above, housing is a major issue of concern due the housing backlog in the Free State Province and Mafube local Municipality. Not only is there a housing backlog in the Free State province, but in South Africa as a whole. As a result, the project will address a national concern.</p>			

BASIC ASSESSMENT REPORT

8. Do location factors favour this land use (associated with the activity applied for) at this place? (This relates to the contextualisation of the proposed land use on this site within its broader context.)	YES <input checked="" type="checkbox"/>	NO	Please explain
The proposed property is earmarked by the Approved Mafube Structural plan as a property for future Residential Development. As a result, location factors favour the proposed property.			
9. Is the development the best practicable environmental option for this land/site?	YES <input checked="" type="checkbox"/>	NO	Please explain
The area is currently transformed agricultural land and used for grazing and other agricultural purposes (livestock enclosures), illegal dumping and vehicular movement and footpaths; however, due to the low-agricultural potential of the property, the land was/is left dormant. As a result, and as per the Mafube's IDP, low potential agricultural land should be rezoned for residential development.			
10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?	YES <input checked="" type="checkbox"/>	NO	Please explain
Due to the property being located on an area earmarked for residential development, and mainly due to the area located already in a residential area with adjacent residential townhouses, the property has very little, none, negative environmental impacts. The low-agricultural potential on the property makes the site ideal to be rezoned for residential purposes. The proposed project will hold massive positive socio-economic impacts mainly as a result of housing opportunities during the operational phase and also job creation during the construction phase of the project. Therefore, potential positive impacts outweigh the possible negative impacts.			
11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?	YES	NO <input checked="" type="checkbox"/>	Please explain
The majority of the surrounding areas is already developed by residential developments, and the majority of the area is already earmarked by the Municipality's Approved structure plan as future residential areas.			
12. Will any person's rights be negatively affected by the proposed activity/ies?	YES	NO <input checked="" type="checkbox"/>	Please explain
No person's rights will be negatively affected. The property is earmarked for residential development by the municipality and the majority of the surrounding area is already developed for residential use.			
13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?	YES	NO <input checked="" type="checkbox"/>	Please explain
The activity is located within the urban edge of the Bloemfontein			
14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?	YES	NO <input checked="" type="checkbox"/>	Please explain
N/A			
15. What will the benefits be to society in general and to the local communities?	Please explain		
Job creation will be created during the construction phase of the project. One of the EMP conditions stipulate that local labour are to be used during the construction phase. The project will also hold major positive socio-economic benefits during the operational phase mainly due to the provision of housing opportunities.			
16. Any other need and desirability considerations related to the proposed activity?	Please explain		
None			

17. How does the project fit into the National Development Plan for 2030?	Please explain
<p>It will contribute towards the achievement of the following enabling milestones of the NDP 2030:</p> <ul style="list-style-type: none"> • Increasing employment • Ensure that skilled, technical, professional and managerial posts better reflect the country's racial and gender and disability makeup • Broaden social cohesion and unity while redressing 	
<p>18. Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account.</p>	
<p>Through the undertaking of this Assessment Process by a competent EAP, informed by guidelines, the consideration of impacts and alternatives (advantages and disadvantages coupled thereto) has been made. Moreover, the conducting of public participation and specialist investigations form part of the process, whilst mitigation measures and the need and desirability of the proposed project were interrogated. This ensured that all provisions of the Act were considered and as such Integrated Environmental Management were accounted for.</p>	

19. Please describe how the principles of environmental management as set out in section 2 of NEMA have been taken into account.

Through the undertaking of the Assessment process by a competent EAP, informed by guidelines, the consideration of impacts and alternatives (advantages and disadvantages coupled thereto) has been made. Moreover, the conducting of a public participation process and specialist investigations formed part of this basic assessment process, whilst mitigation measures and the needs and desirability of the proposed project were interrogated. This ensured that all provisions of the Act were considered and as such integrated environmental management were accounted for as follow:

(2) Environmental Management must place people and their needs at the forefront of its concern, and serve their physical, psychological, developmental, cultural heritage and social interests equitably.

The goal of this BA is to identify and mitigate potential socio-economic impacts in order to meet the terms of Section 24 of the Constitution.

3) Development must be socially, environmentally and economically sustainable.

The overall goal of this BA is to predict, identify and manage potential positive and negative impacts in the socio-economic, cultural-heritage and biophysical environments in order to meet the needs of present generations without compromising the needs of future generations which will give effect to sustainable development.

(4)(a) Sustainable development requires the consideration of all relevant factors including the following:

- *That the disturbance of ecosystems and loss of biological diversity are avoided, or, where they cannot be altogether avoided, are minimised and remedied;*
- *that pollution and degradation of the environment are avoided, or, where they cannot be altogether avoided, are minimised and remedied;*
- *that the disturbance of landscapes and sites that constitute the nation's cultural heritage is avoided, or where it cannot be altogether avoided, is minimised and remedied;*
- *that waste is avoided, or where it cannot be altogether avoided, minimised and reused or recycled where possible and otherwise disposed of in a responsible manner;*
- *that the use and exploitation of non-renewable natural resources is responsible and equitable, and takes into account the consequences of the depletion of the resource;*
- *that the development, use and exploitation of renewable resources and the ecosystems of which they are part do not exceed the level beyond which their integrity is jeopardised;*
- *that a risk averse and cautious approach is applied, which takes into account the limits of current knowledge about the consequences of decisions and actions; and*
- *that negative impacts on the environment and on people's environmental rights be anticipated and prevented, and where they cannot be altogether prevented, are minimised and remedied.*

An Environmental Management Program Report (EMPR) was compiled to mitigate and manage all activities during the planning, construction and operational phases.

b) Environmental management must be integrated, acknowledging that all elements of the environment are linked and interrelated, and it must take into account the effects of decisions on all aspects of the environment and all people in the environment by pursuing the selection of the best practicable environmental option.

All aspects, including socio-economic, cultural-heritage and biophysical was evaluated and assessed in order to minimize potential negative impacts which will give effect to Integrated Environmental Management, as set out in Chapter 5 of NEMA, 1998.

(c) Environmental justice must be pursued so that adverse environmental impacts shall not be distributed in such a manner as to unfairly discriminate against any person, particularly vulnerable and disadvantaged persons.

11. 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	Applicability to the project	Administering authority	Date
National Environmental Management Act, 1998 (Act 107 of 1998).	The Project triggers activity 27 and 28 of listing Notice one of the Environmental Impact Assessment Regulations published under the National Environmental Management Act.	Free State Department of Economic, Small Business Development, Tourism and Environmental Affairs	This application

12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

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

YES	NO
m ³	

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

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

A refuse area with bins will be done onsite and solid waste will be disposed of at the municipal dump site as per the municipal health bylaws.

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

A regional landfill situated nearest the site is to be used to dispose solid waste. The local municipality is responsible for connecting and disposing the solid waste. If the municipality is not able to provide this service, then a private company will need to be appointed by the development owners for the service.

Will the activity produce solid waste during its operational phase?

YES x	NO
m ³	

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

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

A refuse area with bins will be done onsite and solid waste will be disposed of at the municipal dump site as per the municipal health bylaws.

BASIC ASSESSMENT REPORT

If the solid waste will be disposed of into a municipal waste stream, indicate which registered landfill site will be used.

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

A regional landfill situated nearest the site is to be used to dispose solid waste. The local municipality is responsible for connecting and disposing the solid waste. If the municipality is not able to provide this service, then a private company will need to be appointed by the development owners for the service.

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 competent authority 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 NEM:WA? YES NO

If YES, inform the competent authority and request a change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

Is the activity that is being applied for a solid waste handling or treatment facility? YES NO

If YES, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

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?

m³

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

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.

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

YES NO

If YES, provide the particulars of the facility:

Facility name:		
Contact person:		
Postal address:		
Postal code:		
Telephone:	Cell:	
E-mail:	Fax:	

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

c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere other than exhaust emissions and dust associated with construction phase activities?

YES	NO x
-----	-------------

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

YES	NO
-----	----

If YES, the applicant must 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 only emissions into the atmosphere will be the result of dust during the construction phase of the project. As this is a residential development, no emission other than that of vehicle emissions will be generated during the operational phase.

d) Waste permit

Will any aspect of the activity produce waste that will require a waste permit in terms of the NEM:WA?

YES	NO x
-----	-------------

If YES, please submit evidence that an application for a waste permit has been submitted to the competent authority

e) Generation of noise

Will the activity generate noise?

YES x	NO
--------------	----

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

YES	NO x
-----	-------------

Describe the noise in terms of type and level:

Construction vehicles, equipment, and construction personnel will generate noise during the construction phase of the project. This will however be limited to the site (100 meter from the site boundary). Additional vehicle noise and residents might also produce a sound impact during the operational phase of the project.

13. 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
-------------	-------------	-------------	----------------------------	-------	---------------------------------

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:

	N/A
--	-----

Does the activity require a water use authorisation (general authorisation or water use license) from the Department of Water Affairs?

YES	NO
-----	----

If YES, please provide proof that the application has been submitted to the Department of Water Affairs.

14. ENERGY EFFICIENCY

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

Houses and townhouse will be designed in such a way to be cooler during summer months and warmer during winter months. This will save on energy during the respective months. Other factors that may be considered are solar geysers, however, the single residential properties will be developed by means of infrastructure, where after erven will be sold to individuals who will be responsible for constructing their own houses. Solar geysers will be incorporate as a recommendation in the EMP for the development.

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

Solar geysers will be used as an alternative.

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 B and indicate the area, which is covered by each copy No. on the Site Plan.

Section B Copy No. (e.g. A): N/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 ✓

If YES, please complete the form entitled “Details of specialist and declaration of interest” for each specialist thus appointed and attach it in Appendix I. All specialist reports must be contained in Appendix D.

Property description/physical address:

Province	Free State Province
District Municipality	Fezile Dabi District Municipality
Local Municipality	Mafube Local Municipality
Ward Number(s)	Ward 9
Farm name and number	Dorp Frankfort 74
Portion number	74
SG Code	F0140000000007400000

Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application including the same information as indicated above.

Current land-use zoning as per local municipality IDP/records:

The property is currently zoned as agricultural

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

BASIC ASSESSMENT REPORT

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
------	-------------	-------------	-------------	--------------	-------------	------------------

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	<input type="checkbox"/>	2.4 Closed valley	<input type="checkbox"/>	2.7 Undulating plain / low hills	<input type="checkbox"/>
2.2 Plateau	<input type="checkbox"/>	2.5 Open valley	<input type="checkbox"/>	2.8 Dune	<input type="checkbox"/>
2.3 Side slope of hill/mountain	<input type="checkbox"/>	2.6 Plain	<input checked="" type="checkbox"/>	2.9 Seafront	<input type="checkbox"/>
2.10 At sea	<input type="checkbox"/>				

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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

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

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.

5. SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites?

Perennial River	YES	NO ✓	UNSURE
Non-Perennial River	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE
Artificial Wetland	YES	NO ✓	UNSURE
Estuarine / Lagoonal wetland	YES	NO	UNSURE

If any of the boxes marked YES or UNSURE is ticked, please provide a description of the relevant watercourse.

N/A

6. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that 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:

Natural area	Dam or reservoir	Polo fields
Low density residential	Hospital/medical centre	Filling station ^H ✓
Medium density residential ✓	School	Landfill or waste treatment site
High density residential	Tertiary education facility	Plantation
Informal residential ^A	Church	Agriculture
Retail commercial & warehousing	Old age home	River, stream or wetland ✓

BASIC ASSESSMENT REPORT

Light industrial	Sewage treatment plant ^A	Nature conservation area
Medium industrial ^{AN}	Train station or shunting yard ^N	Mountain, koppie or ridge
Heavy industrial ^{AN}	Railway line ^N	Museum
Power station	Major road (4 lanes or more) ^N	Historical building
Office/consulting room	Airport ^N	Protected Area
Military or police base/station/compound	Harbour	Graveyard
Spoil heap or slimes dam ^A	Sport facilities	Archaeological site
Quarry, sand or borrow pit	Golf course	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? Specify and explain:

N/A

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

N/A

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

There are no direct impacts that will be encountered by the filling station; however, during the construction phase, there might be a traffic from the J.J Hadebe street caused by construction vehicles which will slow down movement of vehicles from and into the filling station.

Does the proposed site (including any alternative sites) fall within any of the following:

Critical Biodiversity Area (as per provincial conservation plan)	YES	NO ✓
Core area of a protected area?	YES	NO ✓
Buffer area of a protected area?	YES	NO ✓
Planned expansion area of an existing protected area?	YES	NO ✓
Existing offset area associated with a previous Environmental Authorisation?	YES	NO ✓
Buffer area of the SKA?	YES	NO ✓

If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix A.

7. 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? If YES, explain:

YES	NO ✓
Uncertain	

N/A

BASIC ASSESSMENT REPORT

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

N/A

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 provide proof that this permit application has been submitted to SAHRA or the relevant provincial authority.

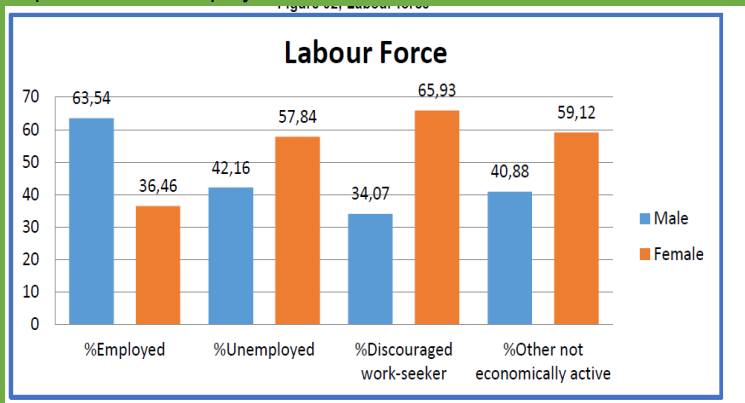
8. SOCIO-ECONOMIC CHARACTER

a) Local Municipality

Please provide details on the socio-economic character of the local municipality in which the proposed site(s) are situated.

Level of unemployment:

Mafube Local Municipality unemployment rate was standing at 33.4 %, the majority of the unemployment age group being the youth at 44.3 %, and the most unemployed gender group being Females. 66.6 % of the Population of is employed.



Economic profile of local municipality:

The GDP of Mafube Local Municipality has increased from 0,30% in 2019/2020 to 0,90% in 2020/2021. It is estimated to increase to 1,30% in 20221/2022.

Level of education:

7.3 % of the Mafube Local Municipality population has no schooling while 20.8 had schooling to the level of Grade 12/Standard 10/Form 5/Matric/NCV Level 4/ Occupational certificate NQF Level.

b) Socio-economic value of the activity

What is the expected capital value of the activity on completion?	Unknown	
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
Is the activity a public amenity?	YES	NO
How many new employment opportunities will be created in the development and construction phase of the activity/ies?	Unknown	
What is the expected value of the employment opportunities during the development and construction phase?	Unknown	
What percentage of this will accrue to previously disadvantaged individuals?	Unknown	
How many permanent new employment opportunities will be created during the operational phase of the activity?	Unknown	
What is the expected current value of the employment opportunities during the first 10 years?	Unknown	
What percentage of this will accrue to previously disadvantaged individuals?	Unknown	

9. BIODIVERSITY

Please note: The Department may request specialist input/studies depending on the nature of the biodiversity occurring on the site and potential impact(s) of the proposed activity/ies. To assist with the identification of the biodiversity occurring on site and the ecosystem status consult <http://bgis.sanbi.org> or BGIShelp@sanbi.org. Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used. A map of the relevant biodiversity information (including an indication of the habitat conditions as per (b) below) and must be provided as an overlay map to the property/site plan as Appendix D to this report.

a) Indicate the applicable biodiversity planning categories of all areas on site and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category)

Systematic Biodiversity Planning Category				If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan
Critical Biodiversity Area (CBA)	Ecological Support Area (ESA)	Other Natural Area (ONA)	No Natural Area Remaining (NNR)	According to the Free State Provincial Spatial Biodiversity Plan 2017, which sets out biodiversity priority areas in the province, The study area is located in an ESA 2 which implies that the area that must be maintained in at least fair ecological condition (semi-natural/moderately modified state) in order to support the ecological functioning of a Critical Biodiversity Area (CBA) .

BASIC ASSESSMENT REPORT

--	--	--	--	--

b) Indicate and describe the habitat condition on site

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing, harvesting regimes etc).
Natural	90%	Most of the propose site is undisturbed, it is dominated by natural vegetation and characterized by a wetland.
Near Natural (includes areas with low to moderate level of alien invasive plants)	2%	There are alien species which were spotted on site.
Degraded (includes areas heavily invaded by alien plants)	5%	A few alien species were spotted on site
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	3%	The area has been transformed since there are houses and roads on the site

c) Complete the table to indicate:

- (i) the type of vegetation, including its ecosystem status, present on the site; and
- (ii) whether an aquatic ecosystem is present on site.

Terrestrial Ecosystems		Aquatic Ecosystems							
Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	Critical	Wetland (including rivers, depressions, channelled and unchanneled wetlands, flats, seeps pans, and artificial wetlands)			Estuary		Coastline		
	Endangered								
	Vulnerable	YES	NO	UNSURE	YES	NO	YES	NO	
	Least Threatened	YES	NO	UNSURE	YES	NO	YES	NO	

- d) **Please provide a description of the vegetation type and/or aquatic ecosystem present on site, including any important biodiversity features/information identified on site (e.g. threatened species and special habitats)**

The proposed site is located within Frankfort Highveld Grassland which is dominated by graminoids. The vegetation type is classified as vulnerable due to extensive cultivation activities and flooded dams.

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT AND NOTICE

Publication name	Frankfort Herald	
Date published		
Site notice position	Latitude	Longitude
	27°16'58.68"S	28°30'8.69"E
Date placed	09 September 2021	

Include proof of the placement of the relevant advertisements and notices in Appendix E1.

2. DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 41(2)(e) and 41(6) of GN 326

Key stakeholders (other than organs of state) identified in terms of Regulation 41(2)(b) of GN 326

Title, Name and Surname	Affiliation/ key stakeholder status	Contact details (tel number or e-mail address)
Mr. Vernon Blair	Department of water and Sanitation	Tel: 051 405 9000 Email: blairv@dwa.gov.za
Ms P. Thabethe	Department of Environment, Forestry and Fisheries	Tel: 051 400 4872 Email: thabethe@detea.fs.gov.za
Mr Xolisa Songcaka	Eskom	Tel: 051 404 2133 Email: Songcaxh@eskom.co.za
Mrs Christa Klinck (HOD office Manager)	Department of Agriculture and Rural development	Tel: 051 861 8440 Cell: 072 600 5090 Email: christa.klinck.ck@gmail.com hodofficemanager@dard.gov.za
Mr SJ Msibi	Department of Road & Transport	Tel: 051 409 8579 Email: HOD@freetrans.gov.za msibis@freetrans.gov.za

BASIC ASSESSMENT REPORT

Mr Nthimotse Mokhesi	Department of Human Settlement	Tel: 051 405 4727 Email: Hodhs@fshs.gov.za tim@fshs.gov.za
----------------------	--------------------------------	--

Include proof that the key stakeholder received written notification of the proposed activities as Appendix E2. This proof may include any of the following:

- e-mail delivery reports;
- registered mail receipts;
- courier waybills;
- signed acknowledgements of receipt; and/or
- or any other proof as agreed upon by the competent authority.

3. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summary of main issues raised by I&APs	Summary of response from EAP
Residents are happy and looking forward to project. They are excited about the houses and the job opportunities that will be created through his project.	Thank you for all your responses. The EAP will ensure that all the Interested and affected parties will be informed about every developments of the project.

4. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments received from I&APs and respond to each comment before the Draft BAR is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to the Final BAR as Appendix E3.

5. AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders:

Authority/Organ of State	Contact person (Title, Name and Surname)	Tel No.	Fax No.	e-mail	Postal address
Department of water and Sanitation	Mr. Vernon Blair	Tel: 051 405 9000	N/A	Email: blairv@dwa.gov.za	PO Box 3704 Bloemfontein, 9300
Department of Environment, Forestry and Fisheries	Ms P. Thabethe	Tel: 051 400 4872	N/A	Email: thabethe@detea.fs.gov.za	
Department of Agriculture and Rural development	Mrs Christa Klinck (HOD office Manager)	Tel: 051 861 8440 Cell: 072 600 5090	N/A	Email: christa.klinck.ck@gmail.com hodofficemanager@dard.gov.za	Private Bag X01, Glen, Bloemfontein, 9360
Department of Road & Transport	Mr SJ Msibi	Tel: 051 409 8579	N/A	Email: HOD@freetrans.gov.za / msibis@freetrans.gov.za	PO Box 119, Bloemfontein, 9300
Department of Human Settlement	Mr Nthimotse Mokhesi	Tel: 051 405 4727	N/A	Email: Hodhs@fshs.gov.za tim@fshs.gov.za	Private Bag 247, Bloemfontein, 9300
Fezile Dabi District Municipality	Andre Van Zyl Mcebo Mkhathswa	016 970 8871/ 4 016 970 8859	N/A	andrevz@feziledabi.gov.za mcebom@feziledabi.gov.za	PO Box 10, Sasolburg, 1947
Eskom	Mr Xolisa Songcaka	Tel: 051 404 2133	N/A	Email: Songcaxh@eskom.co.za	

Include proof that the Authorities and Organs of State received written notification of the proposed activities as appendix E4.

In the case of renewable energy projects, Eskom and the SKA Project Office must be included in the list of Organs of State.

6. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for any activities (linear or other) where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub-regulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable. Application for any deviation from the regulations relating to the public participation process must be submitted prior to the commencement of the public participation process.

A list of registered I&APs must be included as appendix E5.

Copies of any correspondence and minutes of any meetings held must be included in Appendix E6.

SECTION D: IMPACT ASSESSMENT

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

Provide a summary and anticipated significance of the potential direct, indirect and cumulative impacts 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. This impact assessment must be applied to all the identified alternatives to the activities identified in Section A (2) of this report.

1.1. PLANNING, DESIGN AND CONSTRUCTION PHASE

Activity	Impact summary	Significance	Proposed mitigation
Alternative 1 (preferred alternative)			
Fauna	Direct impacts: <ul style="list-style-type: none"> - Habitat fragmentation due to removal of vegetation - Loss of faunal habitats 	Medium (Negative)	<ul style="list-style-type: none"> - Revegetation should be prioritized. - Prevent impact of construction activities to extend on to neighbouring land demarcated and fenced construction camp; strict control of labourers.
	Indirect impacts: None	Low	<ul style="list-style-type: none"> - No mitigation measures since there no impacts
	Cumulative impacts: None	Low	<ul style="list-style-type: none"> - - No mitigation measures since there no impacts
Flora	Direct Impacts: <ul style="list-style-type: none"> - Loss of indigenous species - Loss of species of conservation 	Medium	<ul style="list-style-type: none"> - Revegetate the disturbed area with indigenous plants,

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<ul style="list-style-type: none"> - Encroachment of invasive species 		<ul style="list-style-type: none"> - Avoid unnecessary loss of indigenous trees. - Species of conservation should be translocated upon receipt of Permit - Prior to construction any medicinally important floral specimens that may occur within the site layout should be collected and replanted in the surrounding areas
	Indirect impacts: None	Low	<ul style="list-style-type: none"> - No mitigation measures since there no impacts
	Cumulative impacts: None	Low	<ul style="list-style-type: none"> - No mitigation measures since there no impacts
Air quality	<p>Direct impacts:</p> <ul style="list-style-type: none"> - Dust, P.M2.5 emission during construction activities - Generation of CO and NOx due to movement of construction vehicles 	Medium	<ul style="list-style-type: none"> - Dust Suppression measures will be implemented (Spraying water on the access roads) - Stockpiles which have the potential of generating dust must be covered with tarpaulin - Vehicles should move at low speed to minimize the dust - Vehicle maintenance must be conducted regularly to avoid excessive diesel fumes

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	Indirect impacts: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts
Surface water and ground water	Direct impact: <ul style="list-style-type: none"> - Contamination of Surface water from construction activities - Contamination of groundwater by hazardous substances leaching in to the ground 	Medium (negative)	<ul style="list-style-type: none"> - Implement dust suppression measures to prevent surface water contamination - Prevent Groundwater contamination by properly storing fuel on site and re-fuelling to be done from a bowser that do not drip - Prevent run-off by constructing diversion berms and / or placing straw bales on denuded areas.
	Indirect: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts
Wetland	Direct impact: <ul style="list-style-type: none"> - Destruction of the wetland biodiversity - Loss of wetland habitat - Addition of suspended soils - Modification of water levels band flow regimes 	Low	<ul style="list-style-type: none"> - 32 meter buffer distance should be maintained at all times - Keep the footprint of the disturbed area to the minimum and designated areas only - No construction activities and equipment will be allowed on the wetland
	Indirect Impacts: None	Low	- No mitigation measures since there no impacts

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts
Soil	Direct Impact: - Increased soil erosion due to construction activities - Removal of topsoil	Medium (Negative)	- Implement soil erosion control measures
	Indirect Impact: None	Low	- No mitigation measures since thee no impacts
	cumulative impact: None	Low	- No mitigation measures since thee no impacts
Storm water	Direct Impact: - Increase in stormwater runoff resulting from construction activities	Medium	- Temporary cut off drains and berms may be required to capture stormwater and promote infiltration.
	Indirect Impact: None	Low	- No mitigation measures since there no impacts
	Cumulative Impact: None	Low	- No mitigation measures since there no impacts
Heritage	Direct Impact: - Destruction of heritage resources	Medium	- SAHRA must immediately be alerted in case evident or artefacts, paleontological fossils, additional graves or heritage resources are discovered during the course of development
	Indirect Impact: None	Low	- No mitigation measures since there no impacts
	Cumulative Impact: None	Low	- No mitigation measures since there no impacts
Waste	Direct Impact: - Waste impacts by means of waste storage and littering during the development	Medium (Negative)	- Appropriate materials management - Sufficient housekeeping - Effective solid waste management
	Indirect Impact: None	Low	- No mitigation measures since there no impacts
	Cumulative Impact: None	Low	- No mitigation measures since there no impacts
Visual	Direct impact: - Increased visual impact due to increased working activities on-site.	Medium (Negative)	- Visual impact can be addressed by removal of any infrastructure, scrap, waste that would contribute to a negative impact

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			<ul style="list-style-type: none"> - Institute an appropriate building and site maintenance programme
	Indirect impact: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts
Social	Direct Impact: <ul style="list-style-type: none"> - Increased socio-economic conditions due to job-creation - Crimes and influx of people looking for employment opportunities 	Medium	<ul style="list-style-type: none"> - Enhance the use of local labour and local skills as far as reasonably possible. - Ensure that goods and services are sourced from the local and regional economy as far as reasonable possible
	Indirect Impact : None	Low	- No mitigation measures since there no impacts
	Cumulative: None	Low	- No mitigation measures since there no impacts
Noise	Direct Impact: <ul style="list-style-type: none"> - Noise disturbance from construction vehicles and activities 	Medium	<ul style="list-style-type: none"> - Limit construction activities to day time hours. - Construction personnel must wear personal protective equipment where appropriate
	Indirect Impact: None	Low	- No mitigation measures since there no impacts
	cumulative impacts: None	Low	- No mitigation measures since there no impacts
Traffic	Direct Impact: <ul style="list-style-type: none"> • High traffic congestion due to construction vehicles moving to and from site 	High	<ul style="list-style-type: none"> - Speed limit should be 40 km per hr on gravel Roads - Transportation of construction equipment and material should be mostly be done outside peak hours
	Indirect Impact: None	Low	- No mitigation measures since there no impacts
	Cumulative impact: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts:		
No-go option			

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	Direct impacts: - If the proposed project does not proceed, increased income and economic spin-off activities will not be realised	Medium	
	Indirect impacts: None	Low	
	Cumulative impacts: None	Low	

1.2. OPERATIONAL PHASE

Activity	Impact summary	Significance	Proposed mitigation
Alternative 1 (preferred alternative)			
Visual	Direct impacts: - Visual impacts will increase during the operation phase due to development and lighting. - Impact on the surrounding community in terms of visibility and great environment	High	- Lighting and layout to be maintained as per the layout plan to ensure bright street lighting is not permitted - Ensure that surrounding gardens are well maintained. The planting of indigenous vegetation is encouraged
	Indirect impacts: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
Flora	Direct Impacts: <ul style="list-style-type: none"> - Loss of indigenous species - Loss of species of conservation - Encroachment of invasive species 	Medium	<ul style="list-style-type: none"> - Open spaces should be re-vegetated with Indigenous vegetation. -
	Indirect impacts: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts
Air quality	Direct impacts: <ul style="list-style-type: none"> - Dust, P.M2.5 emission during the operational phase - Generation of CO and NOx due to movement of residents' vehicles 	Medium	<ul style="list-style-type: none"> - Dust suppression measures will be implemented - Using less vehicles - Use of fuel efficient vehicles will be encouraged
	Indirect impacts: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts
Surface water and ground water	Direct impact: <ul style="list-style-type: none"> - Contamination of water from hazardous substances which may be used by residents during the operational phase 	Medium	<ul style="list-style-type: none"> - Vehicles should be serviced regularly to prevent oil leaks -
	Indirect: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
Wetland	Direct impact: - There is no Wetland closer to the site	Low	- No mitigation measures since there no impacts
	Indirect Impacts: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: none	Low	- No mitigation measures since there no impacts
Soil	Direct Impact: - Increased soil erosion during the operational phase - Increased Soil contamination by means of hazardous substances.	Medium	- Prevent by properly storing fuel on site and re-fuelling to be done from a bowser that do not drip - Restoration of the landform and removal of infrastructure to reinstate land use potential
	Indirect Impact: None	Low	- No mitigation measures since there no impacts
	Cumulative impact: None	Low	- No mitigation measures since there no impacts
Heritage	Direct Impact: - Destruction of heritage resources <i>during operational phase</i>	Medium	- Any valuable heritage feature should be marked and demarcated.
	Indirect Impact: None	Low	- No mitigation measures since there no impacts
	Cumulative Impact: None	Low	- No mitigation measures since there no impacts
Waste	Direct Impact: - Waste impacts by means of waste storage and littering during the operational phase. -	High	- Confirmation from the municipality must be sought to ensure the municipal waste collection service will collect the waste generated by the proposed development/ activity
	Indirect Impact: None	Low	
	Cumulative Impact: None	Low	
Social	Direct Impact: - Increased socio-economic conditions higher residential opportunities in the area.	Medium	- Where the required skills do not occur locally, and where appropriate and applicable, ensure that relevant local individuals are trained.

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<ul style="list-style-type: none"> - Increased socio-economic conditions due to job-creation - 		<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 Impact: None	Low	- No mitigation measures since there no impacts
	Cumulative Impact: None	Low	- No mitigation measures since there no impacts
Noise	Direct: <ul style="list-style-type: none"> - Noise nuisance generated during the operational phase. - 	High	<ul style="list-style-type: none"> - Noise reduction measures will have to be implemented in compliance with Noise standards and Regulations
	Indirect Impact: None	Low	- No mitigation measures since there no impacts
	Cumulative impacts: None	Low	- No mitigation measures since there no impacts
Traffic	Direct Impact: <ul style="list-style-type: none"> - Traffic impacts by means of increased / higher amount of residence during the operational phase 	High	<ul style="list-style-type: none"> - Traffic lights and stop signs should well maintained and used by residents. -Speed limit should be 40 km per hr on gravel Roads
	Indirect Impact: None	Low	- No mitigation measures since thee no impacts
	Cumulative impact: None	Low	- No mitigation measures since thee no impacts

1.3 DECOMMISSIONING PHASE

There is no Decommissioning phase for this proposed development and therefore, impacts related to the decommissions phase have not been included. However, if the client for some other reason decide to decommission the area, an Environmental Impact study will have to be undertaken in accordance with the NEMA EIA regulations whereby the Decommissioning impacts will be determined and submitted to the Relevant Competent Authority for Decision making.

A complete impact assessment in terms of Regulation 19(3) of GN 326 must be included as Appendix F.

2. 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)

Site alternative can be either for the entire development where the activity is proposed on a o established on a different site, or for certain components of it. In terms of this proposed development, the site alternative will not be further investigated since the applicant is the landowner and has no other land available for residential development in the area, the farm Dorp Frankfort 74 which results in the proposed development occurring or not occurring at all in such instances the no-go alternative will play an important role.

Alternative B

Alternative C

No-go alternative (compulsory)

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
-----	----

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).

N/A

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 competent authority in respect of the application.

GENERAL ENVIRONMENTAL MANAGEMENT STATEMENT

The EAP has no objections to the proposed project and is of the opinion that an Environmental Authorisation may be granted. This said, it is imperative that the following recommendations and the EMP are implemented and adhered to during all phases of the project.

TRAFFIC:

- Control impact on roads by properly servicing the construction vehicles
- Speed limit should be 40 Km per hr on gravel roads
- Transportation of construction materials and rubbish shall be undertaken outside traffic peak hours to minimize inconveniencing residents

NOISE NUISANCE:

- Limit vehicles travelling to and from the site to minimise the noise to the surrounding areas
- Noise reduction measures will have to be implemented in compliance with Noise Standards and Regulations

AIR QUALITY

- Water should be sprayed on the construction access road during the dry/windy periods
- Construction phase stockpiles which have the potential of generating dust must be covered with tarpaulin
- Maintain construction vehicles and machinery to control exhaust emissions.

BIODIVERSITY:

- Re-vegetation with indigenous species will be encouraged
- Endangered species should not be removed without a permit
-
-

HERITAGE:

BASIC ASSESSMENT REPORT

- During construction, if heritage findings are made (graves, archaeological objects, etc), SAHRA should be contacted and works to be stopped immediately.
- A chance find protocol must be implemented, as the site has a high paleontological sensitivity. Mitigation measures contained in the Environmental Management Plan as well as the specialist recommendations to be implemented of "find chance protocol"

SURFACE AND GROUND WATER:

- If a spill occurs it is to be cleaned up immediately and Reported to the appropriate authorities

Is an EMPr attached?

YES

NO

The EMPr must be attached as Appendix G.

The details of the EAP who compiled the BAR and the expertise of the EAP to perform the Basic Assessment process must be included as Appendix H.

If any specialist reports were used during the compilation of this BAR, please attach the declaration of interest for each specialist in Appendix I.

Any other information relevant to this application and not previously included must be attached in Appendix J.

Seli Mahlangu _____
NAME OF EAP

SIGNATURE OF EAP

DATE

SECTION F: APPENDIXES

The following appendixes must be attached:

Appendix A: Locality Map

Appendix B: Facility illustration

Appendix C: Photographs

Appendix D: Impact Assessment

Appendix E: Public Participation Process

Appendix F: Environmental Management Programme (EMPr)

Appendix G: Specialist Reports

Appendix G1: Civil Services Report

Appendix G2: Flood line Delineation

Appendix G3: Biodiversity Impact Assessment

Appendix G4: Heritage Impact Assessment

Appendix G5: Geotechnical Investigations

Appendix H: Specialist Declarations

Appendix I: EAP Declaration