



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:

NEAS Reference Number:

Date Received:

Due date for acknowledgement:

Due date for acceptance:

Due date for decision

Kindly note that:

(For official use only)

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.

DRAFT BAR_PROPOSED MADIMBO MIXED COMMERCIAL USE DEVELOPMENT

7. The Act means the National Environmental Management Act (No. 107 of 1998) as amended.
8. Regulations refer to Environmental Impact Assessment (EIA) Regulations of 2014.
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: -

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

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

SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section?	NO
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If YES, please complete the form entitled “Details of specialist and declaration of interest” or appointment of a specialist for each specialist thus appointed:

Any specialist reports must be contained in Appendix D.

1. ACTIVITY DESCRIPTION

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

Brightz Outsourcing Group proposes to develop a mixed commercial use complex on Farm Hetty 93 in Madimbo village, Limpopo Province. The proposed development of a Shopping complex, a filling station and a public transport facility station yields provision to a number of needs for the local community and surrounding area, which include the following:

Shopping Complex:

- The proposed Shopping Complex consists of rights relating to activities of goods and services provision including banking facilities which are part of the day-to-day necessities of individuals.
- This will allow for the economic participation of the locals.
- Needed goods and services will be provided, more so in close proximity to the consumers.
- This will also contribute positively to the unemployment stats of the community and skills development of the local residents and by so doing also contributing towards poverty alleviation.

Filling Station:

- The provision of a filling station will provide access to a petroleum facility of vehicles in close proximity to the area; and
- This also contributes to the local economy, unemployment stats and skills development.

Public transport facility station:

- Considering the fact that the area of the application site is within a rural area with a number of residents depending on public transport, it goes without saying that a formal public transport facility will be a necessity;
- The proposed facility also compliments the proposed development of a Shopping Complex and will promote the use of the proposed filling station by the taxis and buses that will be able to obtain the necessary petroleum products.

The description above will entail the clearance of 15 hectares of natural vegetation to accommodate the proposed development. Figure 1 below shows the proposed area for development in relation to the surrounding local wards and Madimbo Village.

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.
LEDET BA Report, EIA 2014: Project Name: _____

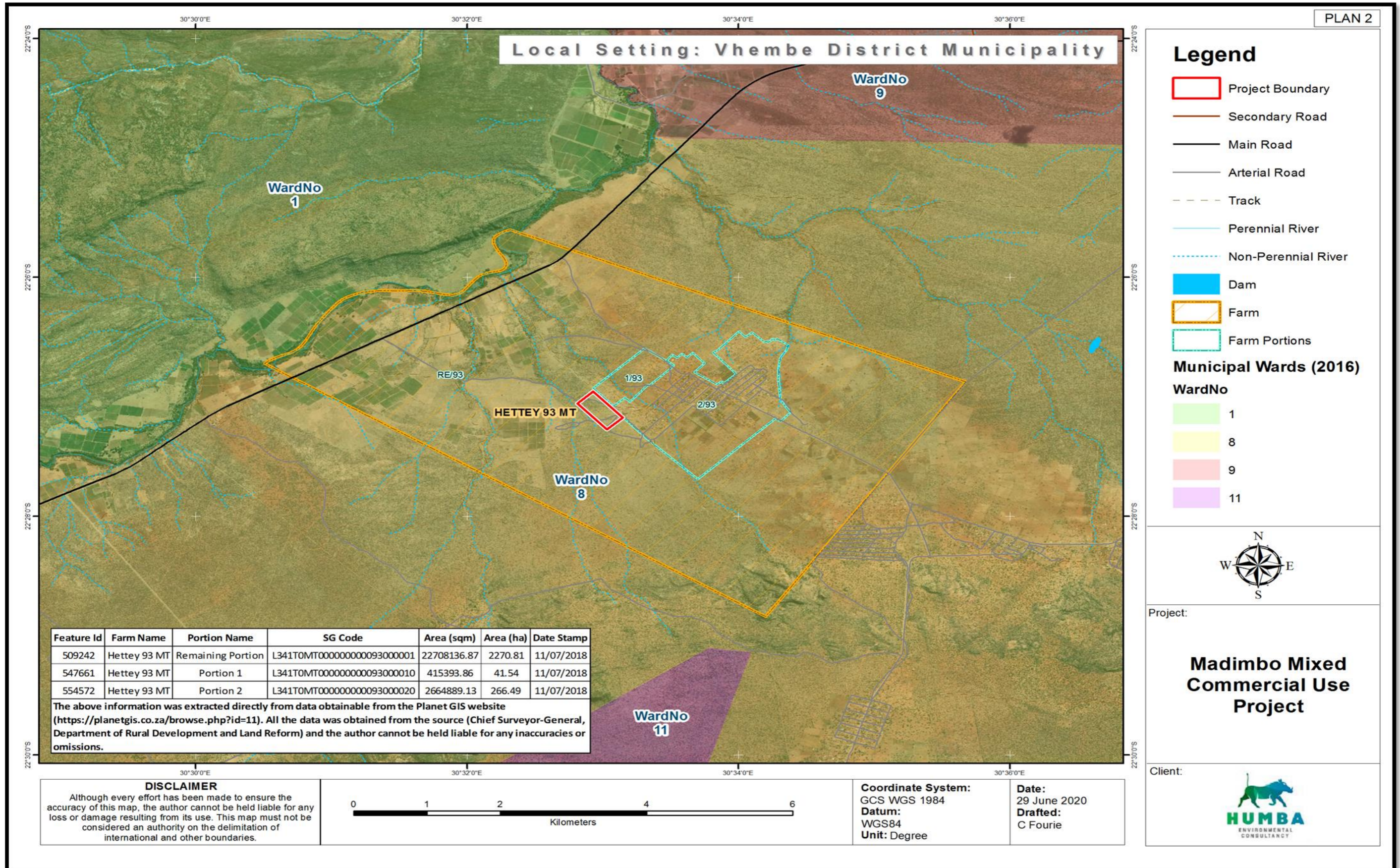


Figure 1: Locality map showing proposed area for development

2. FEASIBLE AND REASONABLE ALTERNATIVES

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

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

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

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

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 S1 ² (preferred or only site alternative)	22°	27'	07.77"	30°	32'	59.68"
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	°	'	"	°	'	"

² “Alternative S..” refer to site alternatives.
LEDET BA Report, EIA 2014: Project Name:

• 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	°	'	"	°	'	"

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:	Size of the activity:
Alternative A1 ³ (preferred activity alternative)	150 305m ²
Alternative A2 (if any)	m ²
Alternative A3 (if any)	m ²

or,

for linear activities:

Alternative:	Length of the activity:
Alternative A1 (preferred activity alternative)	m
Alternative A2 (if any)	m
Alternative A3 (if any)	m

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

Alternative:	Size of the site/servitude:
Alternative A1 (preferred activity alternative)	m ²
Alternative A2 (if any)	m ²

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

Alternative A3 (if any)		m ²
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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		m
Describe the type of access road planned:		

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

6. SITE OR ROUTE PLAN

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

The site or route plans must indicate the following:

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

7. SITE PHOTOGRAPHS

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

8. FACILITY ILLUSTRATION

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

9. ACTIVITY MOTIVATION

9(a) Socio-economic value of the activity

What is the expected capital value of the activity on completion?	R12 000 000.00
What is the expected yearly income that will be generated by or as a result of the activity?	R4 000 000.00
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 phase of the activity?	57
What is the expected value of the employment opportunities during the development phase?	R150 000.00
What percentage of this will accrue to previously disadvantaged individuals?	100%
How many permanent new employment opportunities will be created during the operational phase of the activity?	34
What is the expected current value of the employment opportunities during the first 10 years?	R1 500 000.00
What percentage of this will accrue to previously disadvantaged individuals?	100%

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:		

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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.		
	<p>v. The area currently is natural bushveld. As such, the proposed development will impact on the visual integrity of the area as the proposed development encompasses the construction of concrete structure and will result in a considerably higher influx of traffic and people due to the tertiary services offered by the proposed development.</p>		
	<p>vi. Madimbo village currently, does not have an economic hub/node from which services such as public transport, the provision of petroleum products and retail shopping are conducted. As such, the proposed development will be the first of its kind within the area providing services that previously needed to be sourced a fair distance away.</p>		

BENEFITS:			
i.	Will the land use / development have any benefits for society in general?	YES	NO
ii.	<p>Currently, anyone driving through along the North-East corridor that is defined by D3701 between Madimbo and Shakadza, Tshilamba to Thohoyandou and surrounding villages will have to drive a fair way to access a filling station. The proposed development will go a long way in ensuring motorists don't have to drive a long way to access a filling station.</p> <p>In addition, the public transport facility will attract public transport operators to the area as here</p>		

	will be a dedicated taxi rank from which long distance commuter can catch local taxis. Currently, no such facility exists an commuters have to walk a fair bit from wherever the alight public transport.		
iii.	Will the land use / development have any benefits for the local communities where it will be located?	YES	NO
iv.	<p>The proposed development will provide much needed employment opportunities during the construction and operational phase of the project. All employees will be sourced from Madimbo Village with the exception of skills that will not be present in the area. The operational employment opportunities will be permanent and will assist in improving the livelihoods of the employed staff complement and their families.</p> <p>In addition, the absence of a public transport facility in Madimbo Village meant that the locals did not have a dedicated location from which to access different destinations such as Musina and Thohoyandou. The proposed development will encourage other taxi to be created through Madimbo to assist in creating better networking opportunities.</p> <p>The proponent has also put in application with Road Agency Limpopo (RAL) to ensure the completion of the D3701 road maintenance project. The widening and resurfacing of this road will assist motorists and commuters within the area with more convenient access to and from Madimbo Village.</p>		

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:
Constitution of the Republic of South Africa, (Act No. 108 of 1996)	National	18 December 1996
National Environmental Management Act, (Act No. 107 of 1998).	National & Provincial	27 November 1998
National Environmental Management: Waste Act, (Act No. 59 of 2008	National & Provincial	06 March 2008
National Environmental Management: Air Quality Act, (Act No. 39 of 2004)	National & Provincial	19 February 2005
National Environmental Management: Protected Areas Act, (Act No. 39 of 2004)	National & Provincial	11 February 2004
National Environmental Management: Biodiversity Act, (Act No. 10 of 2004)	National & Provincial	7 June 2004
National Water Act, (Act No. 36 of 1998)	National & Provincial	26 August 1998
Occupational Health and Safety Act, (Act No. 85 of 1993)	National & Provincial	23 June 1993
National Heritage Resources Act, (Act No. 25 of 1999)	National & Provincial	28 April 1999

1999)		
Hazardous Substances Act, (Act No. 15 of 1973)	National & Provincial	4 April 1973
National Road Traffic Act, (Act No. 93 of 1996)	National & Provincial	22 November 1996
Employment Equity Act, (Act No. 55 of 1998)	National & Provincial	12 October 1998
Basic Conditions of Employment Act, 1997 (Act No. 75 of 1997)	National & Provincial	26 November 1997
Skills Development Act, (Act No. 97 of 1998)	National & Provincial	20 October 1998
Deeds Registries Act, (Act No. 47 of 1937)	National & Provincial	19 May 1937
EIA Regulations	National & Provincial	4 December 2014
Red List Plant Species Guidelines	Provincial	26 June 2006

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
If yes, what estimated quantity will be produced per month?		10m ³
How will the construction solid waste be disposed of (describe)?		
Any rubble will be transported to an accredited General Waste Disposal Facility in Musina		
Where will the construction solid waste be disposed of (describe)?		
General Waste Disposal Facility in Musina		
Will the activity produce solid waste during its operational phase?	YES	NO
If yes, what estimated quantity will be produced per month?		m ³
How will the solid waste be disposed of (describe)?		
Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?		
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

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
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
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:		

11(c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere?	YES	NO
If yes, is it controlled by any legislation of any sphere of government?	YES	NO
If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.		
If no, describe the emissions in terms of type and concentration:		
Dust from moving construction vehicles. The concentrations cannot be determined at this stage. During operation, the development will not produce emissions.		

11(d) Generation of noise

Will the activity generate noise?	YES	NO
If yes, is it controlled by any legislation of any sphere of government?	YES	NO
If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.		
If no, describe the noise in terms of type and level:		

Noise from moving construction vehicles. The type and level cannot be determined at this stage. During operation, the development will not produce noise.

12. WATER USE

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

municipal water board	<input checked="" type="checkbox"/> groundwater	river, stream, other dam or lake	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:			10 000 Litres
Does the activity require a water use permit from the Department of Water Affairs?			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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:
N/A
Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:
N/A

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):	
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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:		
All specialist reports must be contained in Appendix D.		

Property description/physical address:	Portion 93 of Farm Hetty MT	
	(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:	<p>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:</p> <ul style="list-style-type: none"> • 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)
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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	
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 Seafont	
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.

5. LAND USE CHARACTER OF SURROUNDING AREA

DRAFT BAR_PROPOSED MADIMBO MIXED COMMERCIAL USE DEVELOPMENT

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:

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

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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
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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:

During the survey, no heritage resources were found on the proposed site. Two (2) modern structures with no heritage significance were found on site with co-ordinate readings 22°27'02.71"S 30°32'59.06"E. This means, according to NHRA these structures are less than 60 years and therefore are not protected as heritage

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

YES	NO
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Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

YES	NO
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If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

SECTION C: PUBLIC PARTICIPATION

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 sub regulation 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.

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.

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)
Provincial Departments	
Limpopo Road Agency (RAL)	NO
Public Works, Road, And Infrastructure	NO
Transport And Community Safety	NO
Economic Development (LEDET)	NO
Limpopo Economic Development Agency	NO
Local Municipal Departments	
Economic Development And Planning	NO
Community Services	NO
Community Services (Traffic)	NO
Municipal Manager	NO
Technical Services	NO
Town Planning	NO
Communications	NO
Mayor's Office	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 sub regulation 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
<p>If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):</p>		

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.

N/A. Public participation is currently ongoing , as such, no comments have been received as yet.

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):

N/A. Public participation is currently ongoing, however, the Comments and Response Report will be appended to the Final Basic Assessment Report

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.

2.1. Methodology used in Determining and Ranking the Nature, Significance, Consequence, Extent, Duration and Probability of Potential Environmental Impacts and Risks

Details of the impact assessment methodology used to determine the significance of environmental impacts are provided below.

2.1.1. Impact Rating

The impact rating process is designed to provide a numerical rating of the various environmental impacts identified by use of the Input-Output model. It must be noted that the purpose of the EIA process is not to provide an incontrovertible rating of the significance of various aspects, but rather to provide a structured, traceable and defensible methodology of rating the relative significance of impacts in a specific context. This will give the project applicant a greater understanding of the impacts of the project and the issues which need to be addressed by management. It will also give the regulators information on which to base their decisions.

The significance rating process follows the established impact/risk assessment formula given in Figure 2 below.

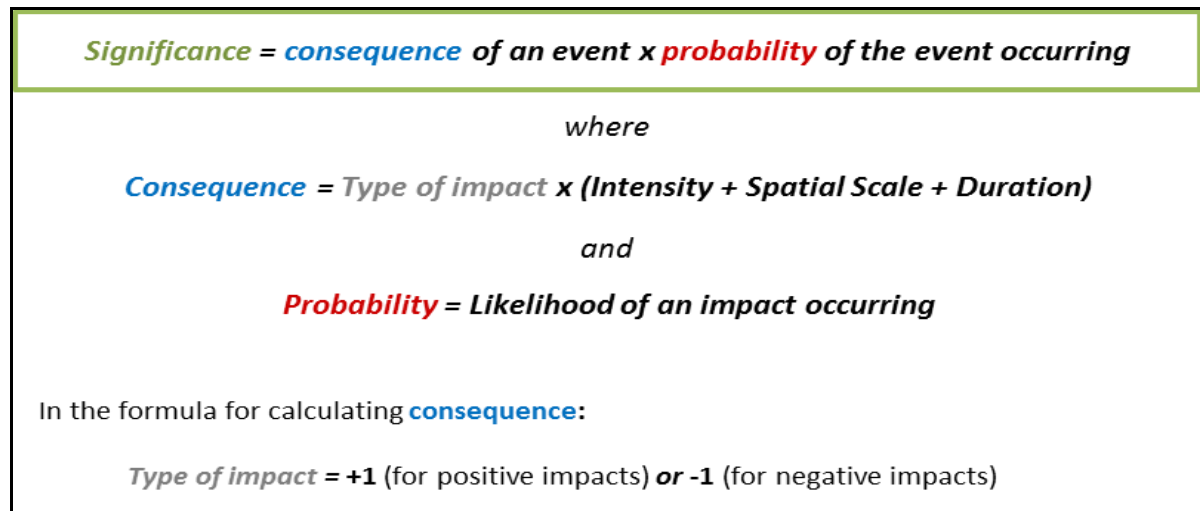


Figure 2: Significance Rating Methodology

The matrix calculates the rating out of 147, whereby Severity, Spatial Scale, Duration and Probability is rated out of seven. Please refer to Table 1 for the parameter ratings which will be used to assign a weighting for both positive and negative impacts.

The significance of an impact is determined and categorised into one of eight categories.

Impacts are rated prior to mitigation and again after consideration of the proposed mitigation measure included in the EMPr.

Table 1: Impact Assessment Parameter Ratings

Rating	Severity/Intensity		Spatial scale	Duration	Probability
	Environmental	Social, cultural and heritage			
7	<p>Very significant impact on the environment. Irreparable damage to highly valued species, habitat or eco system. Persistent severe damage.</p> <p>The positive impact will result in a significant improvement to the initial/post disturbance environmental status and will benefit ecological and natural resources.</p>	<p>Irreparable damage to highly valued items of great cultural significance or complete breakdown of social order.</p> <p>The positive impact will be of high significance which will result the improvement of the socio-economic status of a greater area beyond the boundary of the directly affected of the community and/or promote archaeological and heritage awareness and contribute towards research and documentation of sites and artefacts through phase two assessments.</p>	<p>International</p> <p>The effect will occur across international borders</p>	<p>Permanent: No Mitigation</p> <p>No mitigation measures of natural process will reduce the impact after implementation.</p>	<p>Certain/ Definite.</p> <p>The impact will occur regardless of the implementation of any preventative or corrective actions.</p>
6	<p>Significant impact on highly valued species, habitat or ecosystem.</p> <p>The positive impact is of high significance which will result in a vast improvement to the environment such as ecological diversification and/or rehabilitation of endangered species</p>	<p>Irreparable damage to highly valued items of cultural significance or breakdown of social order.</p> <p>The positive impact will be of high significance and will result in the upliftment of the surrounding community and/or contribute towards research and documentation of sites and artefacts through phase two assessments</p>	<p>National</p> <p>Will affect the entire country</p>	<p>Permanent: Mitigation measures of natural process will reduce the impact.</p>	<p>Almost certain/Highly probable</p> <p>It is most likely that the impact will occur.</p>

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Rating	Severity/Intensity		Spatial scale	Duration	Probability
	Environmental	Social, cultural and heritage			
5	<p>Very serious, long-term environmental impairment of ecosystem function that may take several years to rehabilitate</p> <p>The positive impact will be moderately high and will have a long term beneficial effect on the natural environment</p>	<p>Very serious widespread social impacts. Irreparable damage to highly valued items</p> <p>The positive impact will be moderately high and will result in visible improvements on the socio-economic environment of the local and regional community, and/or promote archaeological and heritage awareness through mitigation</p>	<p>Cercle/ Region</p> <p>Will affect the entire Cercle or region</p>	<p>Project Life</p> <p>The impact will cease after the operational life span of the project.</p>	<p>Likely</p> <p>The impact may occur.</p>
4	<p>Serious medium term environmental effects. Environmental damage can be reversed in less than a year</p> <p>The positive impact on the environment will be moderate with visible improvement to the natural resources and regional biodiversity</p>	<p>On-going serious social issues. Significant damage to structures / items of cultural significance</p> <p>The positive impact on the socio-economic environment will be of a moderate extent and benefits should be experience across the local extent and/or potential benefits for archaeological and heritage conservation</p>	<p>Commune Area</p> <p>Will affect the whole municipal area</p>	<p>Long term</p> <p>6-15 years</p>	<p>Probable</p> <p>Has occurred here or elsewhere and could therefore occur.</p>

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Rating	Severity/Intensity		Spatial scale	Duration	Probability
	Environmental	Social, cultural and heritage			
3	<p>Moderate, short-term effects but not affecting ecosystem function. Rehabilitation requires intervention of external specialists and can be done in less than a month.</p> <p>The positive impact will be moderately beneficial to the natural environment, but will be short lived.</p>	<p>Ongoing social issues. Damage to items of cultural significance.</p> <p>The positive impact will be moderately beneficial for some community members and/or employees, but will be short lived and/or there will be a moderate possibility for archaeological and heritage conservation</p>	<p>Local</p> <p>Local extending only as far as the development site area</p>	<p>Medium term</p> <p>1-5 years</p>	<p>Unlikely</p> <p>Has not happened yet but could happen once in the lifetime of the project, therefore there is a possibility that the impact will occur.</p>
2	<p>Minor effects on biological or physical environment. Environmental damage can be rehabilitated internally with/without help of external consultants.</p> <p>The positive impacts will be minor and slight environmental improvement will be visible.</p>	<p>Minor medium-term social impacts on local population. Mostly repairable. Cultural functions and processes not affected.</p> <p>Minor positive impacts on the social/cultural and/ or economic environment</p>	<p>Limited</p> <p>Limited to the site and its immediate surroundings</p>	<p>Short term</p> <p>Less than 1 year</p>	<p>Rare/ improbable</p> <p>Conceivable, but only in extreme circumstances and/ or has not happened during lifetime of the project but has happened elsewhere. The possibility of the impact materialising is very low as a result of design, historic experience or implementation of adequate mitigation measures</p>

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Rating	Severity/Intensity		Spatial scale	Duration	Probability
	Environmental	Social, cultural and heritage			
1	Limited damage to minimal area of low significance, (e.g. ad hoc spills within plant area). Will have no impact on the environment. The positive impact on the environment will be insignificant and will not result in visible improvements.	Low-level repairable damage to commonplace structures. The positive impact on social and cultural aspects will be insignificant	Very limited Limited to specific isolated parts of the site.	Immediate Less than 1 month	Highly unlikely/None Expected never to happen.

		Significance																																					
Probability	7	-147	-140	-133	-126	-119	-112	-105	-98	-91	-84	-77	-70	-63	-56	-49	-42	-35	-28	-21	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140	147
	6	-126	-120	-114	-108	-102	-96	-90	-84	-78	-72	-66	-60	-54	-48	-42	-36	-30	-24	-18	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126
	5	-105	-100	-95	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105
	4	-84	-80	-76	-72	-68	-64	-60	-56	-52	-48	-44	-40	-36	-32	-28	-24	-20	-16	-12	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84
	3	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63
	2	-42	-40	-38	-36	-34	-32	-30	-28	-26	-24	-22	-20	-18	-16	-14	-12	-10	-8	-6	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
	1	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
		-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
		Consequence																																					

Figure 3: Relationship between Consequence, Probability and Significance Ratings

Table 2: Significance Ratings

Score	Description	Rating
109 to 147	A very beneficial impact which may be sufficient by itself to justify implementation of the project. The impact may result in permanent positive change	Major (positive)
73 to 108	A beneficial impact which may help to justify the implementation of the project. These impacts would be considered by society as constituting a major and usually a long-term positive change to the (natural and / or social) environment	Moderate (positive)
36 to 72	An important positive impact. The impact is insufficient by itself to justify the implementation of the project. These impacts will usually result in positive medium to long-term effect on the social and/or natural environment	Minor (positive)
3 to 35	A small positive impact. The impact will result in medium to short term effects on the social and / or natural environment	Negligible (positive)
-3 to -35	An acceptable negative impact for which mitigation is desirable but not essential. The impact by itself is insufficient even in combination with other low impacts to prevent the development being approved. These impacts will result in negative medium to short term effects on the social and / or natural environment	Negligible (negative)
-36 to -72	An important negative impact which requires mitigation. The impact is insufficient by itself to prevent the implementation of the project but which in conjunction with other impacts may prevent its implementation. These impacts will usually result in negative medium to long-term effect on the social and / or natural environment	Minor (negative)
-73 to -108	A serious negative impact which may prevent the implementation of the project. These impacts would be considered by society as constituting a major and usually a long-term change to the (natural and / or social) environment and result in severe effects	Moderate (negative)
-109 to -147	A very serious negative impact which may be sufficient by itself to prevent implementation of the project. The impact may result in permanent change. Very often these impacts are immitigable and usually result in very severe effects	Major (negative)

Activity/Aspect	Impact	Phase	Nature	Intensity	Spatial Scale	Duration	Probability	Rating Pre Mitigation	Mitigation measures	Rating Post Mitigation
Pre-Construction Phase										
Pre-planning and development design	The location of the development infrastructure within delineated water resource areas and within the 32 m or 100 m of drainage lines	Pre-Construction	Negative (-1)	Moderate (3)	Commune area (4)	Project life (5)	Likely (5)	Minor (negative) (-60)	<ul style="list-style-type: none"> Ensure that as far as possible all infrastructures result in the least disturbance to delineated water resource features present; Ensure that sound environmental management is in place during the planning phase e.g. ensure that all site documentation to be drafted including method statements are approved by the ECO; Ensure that during the planning phase stormwater control measures such as the construction of berms to prevent gully formation, siltation of freshwater resources as well as contamination of surface water resources are implemented. This must be prioritised in areas where the development crosses a watercourse; Ensure that the design of the development infrastructure is environmentally and structurally sound and all possible precautions are taken to prevent possible sewer spillages into surface water resources. 	Negligible (negative)
Establishment of the Construction site camp	Disturbance to the environment i.e. Indigenous Vegetation, Soil & Land Capability, Freshwater features and Groundwater	Pre-Construction	Negative (-1)	Moderate (3)	Commune area (4)	Medium Term (3)	Likely (5)	Minor (negative) (-50)	<ul style="list-style-type: none"> The construction site camp should preferably be located in an already disturbed area During the planning of the construction site camp layout, ensure that the site layout makes provision for a storage area for hazardous material. This storage area must be concreted, bunded, covered, labelled and well ventilated; The waste skip that will contain hazardous waste will be kept within a bunded area; If the contractor will repair or maintain vehicles at the site camp, the site camp layout plan must make provision for a bunded maintenance area; The location of the laydown area, hazardous material storage, waste area including hazardous waste and ablution facilities should not be located within sensitive areas. 	Negligible (positive)
Construction Phase										
Access to the Construction site	Soil compaction caused by vehicles and heavy machineries	Construction	Negative (-1)	Moderate (3)	Site only (2)	Medium Term (3)	High (6)	Minor (negative) (-48)	<ul style="list-style-type: none"> Access to site must be gained through use of existing roads; The contractor must use the existing tracks that run along the development footprint for access; The areas that were disturbed e.g. areas used for parking, must be ripped and reseeded during rehabilitation. 	Negligible (negative)
Construction site setup	Potential contamination of water resources,	Construction	Negative (-1)	Moderate (3)	Local (3)	Medium Term (3)	High (6)	Minor (negative) (-54)	<ul style="list-style-type: none"> Ensure that all equipment e.g. generator, waste bins, spill kit and hazardous material are kept outside freshwater resources including the identified drainage line. A buffer zone of at least 32m from the outer edge of the drainage line and 100m from a stream must be maintained when setting up on site; Ensure that the area to be designated as parking area is outside of water resources. A buffer zone of 32m from the outer edge of a drainage line or 100m from a stream must be maintained. Stockpiling of the construction material to be installed must be limited to only what is required and only be stored in designated areas to avoid any unnecessary impact to drainage lines. No construction material or any materials shall be stored within 100m from a drainage line Ensure that stationery vehicles have a drip tray placed underneath; All hazardous material including oil and paint should be kept within a drip tray while on site. 	Negligible (negative)

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Activity/Aspect	Impact	Phase	Nature	Intensity	Spatial Scale	Duration	Probability	Rating Pre Mitigation	Mitigation measures	Rating Post Mitigation
Vegetation Clearing for the construction activities	Removal of the natural vegetation	Construction	Negative (-1)	Moderate (3)	Site only (2)	Long term (4)	Definite (7)	Minor (negative) (-63)	<ul style="list-style-type: none"> Vegetation clearing must take place only within the 15Ha development footprint; Areas designated for vegetation clearing should be identified and visibly marked off. Exposed areas should be rehabilitated with indigenous plants to the project area as soon as construction is finished. 	Negligible (negative)
	Disturbance to animals on site	Construction	Negative (-1)	Low (2)	Site only (2)	Long term (4)	High (6)	Minor (negative) (-48)	<ul style="list-style-type: none"> Do not disturb nests, breeding sites or young ones that are outside the development footprint. Do not attempt to kill or capture snakes unless directly threatening the safety of employees. Dogs or other pets are not allowed to the worksite as they are threats to the natural wild animal A low speed limit should be enforced on site to reduce wild animal-vehicle collisions No animals should be intentionally killed or destroyed and poaching and hunting should not be permitted on the site. Severe contractual fines must be imposed and immediate dismissal on any contract employee who is found attempting to snare or otherwise harms remaining faunal species. The ECO must conduct regular site inspections of removing any snares or traps that have been erected. Employees and contractors should be made aware of the presence of, and rules regarding, flora and fauna through suitable induction training and on-site signage. 	Negligible (negative)
Vegetation Clearing for the construction activities	Increased soil erosion, increase in silt loads and sedimentation	Construction	Negative (-1)	High (5)	Local (3)	Long term (4)	Definite (7)	Moderate (negative) (-84)	<ul style="list-style-type: none"> Following construction, rehabilitation of disturbed areas is required; especially next to the drainage. Avoid areas with sensitive soils, steep slopes during rain or windy season. During the construction phase, berms should be installed to prevent gully formation and siltation of the freshwater resources. The following points should serve to guide the placement of berms. The material for the construction of the berms must be sourced legally by the contractor appointed to construct the proposed development: <ul style="list-style-type: none"> Where the track has slope of less than 2%, berms every 50 m should be installed; Where the track slopes between 2% and 10%, berms every 25 m should be installed; Where the track slopes between 10%-15%, berms every 20 m should be installed; and Where the track has slope greater than 15%, berms every 10 m should be installed. Have a rehabilitation strategy such as a clean-up plan/strategy if spills occur and proper facilities (ablution) to ensure no sewage spills into drainage lines and streams. 	Negligible (negative)
	Establishment and spread of declared weeds	Construction	Negative (-1)	High (5)	Local (3)	Long term (4)	Definite (7)	Moderate (negative) (-84)	<ul style="list-style-type: none"> The best mitigation measure for alien and invasive species is the early detection and eradication of these species which will be ensured with the use of a monitoring programme. An alien invasive management programme should be developed and implemented in order to control alien invasive species 	Negligible (negative)
	Loss of drainage line Features	Construction	Negative (-1)	High (5)	Local (3)	Medium Term (3)	Medium (6)	Minor (negative)	<ul style="list-style-type: none"> Ensure that vegetation clearing and indiscriminate vehicle driving does not occur outside of the demarcated areas; 	Negligible (negative)

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Activity/Aspect	Impact	Phase	Nature	Intensity	Spatial Scale	Duration	Probability	Rating Pre Mitigation	Mitigation measures	Rating Post Mitigation
	Habitat and Ecological Structure							(-66)	<ul style="list-style-type: none"> Minimize construction footprints prior to commencement of the construction and control the edge effects from construction activities; and Implement alien vegetation control program within the drainage line features. Ensure that all activities impacting on the drainage line features are managed according to the relevant DWS Licensing regulations (where applicable); and As far as possible, all construction activities should occur in the low flow season, during the drier winter months 	
	Changes to Ecological and Socio-Cultural Services Provision	Construction	Negative (-1)	Serious (4)	Local (3)	Short Term (2)	Likely (5)	Minor (negative) (-45)	<ul style="list-style-type: none"> During construction use techniques which support the hydrology and sediment control functions of the freshwater features; and normal as soon as possible after construction. Limit excavations to a limited extent to ensure that drainage patterns within the features returns to pre-construction state Restrict construction to the drier winter months if possible to avoid sedimentation of the freshwater feature and to minimize the severity of disturbance of the features and hydraulic function. 	Negligible (negative)
	Loss of hydrological function and sediment balance	Construction	Negative (-1)	High (5)	Commune area (4)	Long term (4)	High (6)	Moderate (negative) (-78)	<ul style="list-style-type: none"> Any construction-related waste must not be placed in the vicinity of the drainage line features; and Limit the footprint area of the construction activity to what is absolutely essential in order to minimize environmental damage. Stockpiled soil must be removed and the area must be levelled to avoid sedimentation of the drainage line features from runoff; and As far as possible, all construction activities should occur in the low flow season, during the drier summer months. 	Negligible (negative)
Excavation trenches, foundations associated stockpiling of soil	Increased soil erosion	Construction	Negative (-1)	High (5)	Local (3)	Long term (4)	High (6)	Minor (negative) (-72)	<ul style="list-style-type: none"> Do not stockpile soil for more than four (4) month; Earth works e.g. excavation, must be prioritised during the dry winter season; The speed limit on site should be kept at 20kmph to minimise dust generation; Install stormwater control measures e.g. berms around stockpiled soil to minimise the impact of surface water runoff. 	Negligible (negative)
	Loss of drainage line Features Habitat and Ecological Structure	Construction	Negative (-1)	High (5)	Local (3)	Medium Term (3)	Medium (6)	Minor (negative) (-66)	<ul style="list-style-type: none"> Ensure that vegetation clearing and indiscriminate vehicle driving does not occur outside of the demarcated areas; Minimize construction footprints prior to commencement of the construction and control the edge effects from construction activities; and Implement alien vegetation control program within the drainage line features. Ensure that all activities impacting on the drainage line features are managed according to the relevant DWS Licensing regulations (where applicable); and As far as possible, all construction activities should occur in the low flow season, during the drier winter months 	Negligible (negative)
	Changes to Ecological and Socio-Cultural Services Provision	Construction	Negative (-1)	Serious (4)	Local (3)	Short Term (2)	Likely (5)	Minor (negative) (-45)	<ul style="list-style-type: none"> During construction use techniques which support the hydrology and sediment control functions of the freshwater features; and normal as soon as possible after construction. Limit excavations to a limited extent to ensure that drainage patterns within the features returns to pre-construction state Restrict construction to the drier winter months if possible to avoid sedimentation of the freshwater feature and to minimize the severity of disturbance of the features and hydraulic function. 	Negligible (negative)
	Loss of hydrological function and sediment balance	Construction	Negative (-1)	High (5)	Commune area (4)	Long term (4)	High (6)	Moderate (negative) (-78)	<ul style="list-style-type: none"> Any construction-related waste must not be placed in the vicinity of the drainage line features; and Limit the footprint area of the construction activity to what is absolutely essential in order to minimize environmental damage. 	Negligible (negative)

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Activity/Aspect	Impact	Phase	Nature	Intensity	Spatial Scale	Duration	Probability	Rating Pre Mitigation	Mitigation measures	Rating Post Mitigation
									<ul style="list-style-type: none"> Stockpiled soil must be removed and the area must be levelled to avoid sedimentation of the drainage line features from runoff; and As far as possible, all construction activities should occur in the low flow season, during the drier summer months. 	
Waste generation	Pollution due to oil and fuel spills, erosion, and ablution facilities.	Construction	Negative (-1)	High (5)	Local (3)	Long term (4)	Definite (7)	Moderate (negative) (-84)	<ul style="list-style-type: none"> Ensure that all stationery vehicles have a drip tray underneath; Ensure that there is always a spill kit available; Should a spill occur, ensure that it is cleaned up immediately and the contaminated soil is stored as hazardous waste; Proper ablution facilities on site must be provided. Regular monitoring of installed sewer pipelines to ensure that there are no leaks Hazardous material must be kept within a drip tray while on site and stored within a bund area at the construction site camp. All spills must be reported to the ECO; No vehicles or machineries may be maintained/repared on site. This must be done at a workshop area within a bund wall; Proper Standard Operating Procedures in place regulating refuelling and other potential polluting activities. 	Negligible (negative)
	Mishandling of construction waste	Construction	Negative (-1)	High (5)	Local (3)	Short Term (2)	High (6)	Minor (negative) (-60)	<ul style="list-style-type: none"> All construction employees and visitors must undergo an environmental induction by ECO. The ECO must clearly highlight the management of waste on site; The construction waste generated on site must be separated into their waste streams i.e. general waste, construction rubble, hazardous waste, scrap metal and other construction waste; All bins and skips must be clearly labelled to indicate the waste stream; The waste skip containing hazardous waste must be kept within a concreted, bunded area; Use a licensed waste contractor for the collection of waste generated on site. The collected waste must be disposed of at a registered/authorised landfill site and proof of disposal must be kept; The ECO should keep all records of waste generated and disposed of. A waste register must be part of these records. Building rubble must be re-used where possible; Do not bury wastes on-site; Burning of waste is not allowed. 	Negligible (negative)
Construction of the proposed development	Contamination of groundwater due to hydrocarbon spillages.(Filling Station)	Construction	Negative (-1)	High (5)	Local (3)	Long term (4)	High (6)	Minor (negative) (-72)	<ul style="list-style-type: none"> Ensure that all stationery vehicles have a drip tray underneath; Ensure that there is always a spill kit available; Should a spill occur, ensure that it is cleaned up immediately and the contaminated soil is stored as hazardous waste; Generators must be placed within their own drip tray; Hazardous material must be kept within a drip tray while on site and stored within a bund area at the construction site camp. All spills must be reported to the ECO; No vehicles or machineries may be maintained/repared on site. This must be done at a workshop area within a bund wall; Ensure that vehicles are maintained according to their maintenance plan. 	Negligible (negative)
	Loss of drainage line Features Habitat and Ecological	Construction	Negative (-1)	High (5)	Local (3)	Medium Term (3)	High (6)	Minor (negative) (-66)	<ul style="list-style-type: none"> Ensure that vegetation clearing and indiscriminate vehicle driving does not occur outside of the demarcated areas; Minimize construction footprints prior to commencement of the construction and control the edge effects from construction activities; and 	Negligible (negative)

DRAFT BAR_PROPOSED MADIMBO MIXED COMMERCIAL USE DEVELOPMENT

Activity/Aspect	Impact	Phase	Nature	Intensity	Spatial Scale	Duration	Probability	Rating Pre Mitigation	Mitigation measures	Rating Post Mitigation
	Structure								<ul style="list-style-type: none"> Implement alien vegetation control program within the drainage line features. Ensure that all activities impacting on the drainage line features are managed according to the relevant DWS Licensing regulations (where applicable); and As far as possible, all construction activities should occur in the low flow season, during the drier winter months 	
	Changes to Ecological and Socio-Cultural Services Provision	Construction	Negative (-1)	Serious (4)	Local (3)	Short Term (2)	Likely (5)	Minor (negative) (-45)	<ul style="list-style-type: none"> During construction use techniques which support the hydrology and sediment control functions of the freshwater features; and normal as soon as possible after construction. Limit excavations to a limited extent to ensure that drainage patterns within the features returns to pre-construction state Restrict construction to the drier winter months if possible to avoid sedimentation of the freshwater feature and to minimize the severity of disturbance of the features and hydraulic function. 	Negligible (negative)
	Loss of hydrological function and sediment balance	Construction	Negative (-1)	High (5)	Commune area (4)	Long term (4)	High (6)	Moderate (negative) (-78)	<ul style="list-style-type: none"> Any construction-related waste must not be placed in the vicinity of the drainage line features; and Limit the footprint area of the construction activity to what is absolutely essential in order to minimize environmental damage. Stockpiled soil must be removed and the area must be levelled to avoid sedimentation of the drainage line features from runoff; and As far as possible, all construction activities should occur in the low flow season, during the drier summer months. 	Negligible (negative)
Construction of the development and associated clearance activities	Creation of employment opportunities	Construction	Positive (+1)	Low (2)	Commune area (4)	Short term (2)	Probable (4)	Negligible (positive) (+32)	<ul style="list-style-type: none"> Where feasible, promote the creation of employment opportunities for women and youth; Where possible, construction workers must be sourced from areas within Madimbo Village; Source goods and services within the local study area to maximise economic growth for SMEs; Partner with existing community organisations and social departments to jointly assist affected communities, to strengthen the economic development opportunities provided as a result of the project. 	Minor (positive)
	Enhancement of the local economy through sourcing of goods and services									
Operational Phase										
Site access by vehicles for maintenance purposes	Loss of hydrological function and sediment balance	Operational	Negative (-1)	Low (2)	Site only (2)	Short term (2)	Rare / improbable (3)	Negligible (negative) (-12)	<ul style="list-style-type: none"> Vehicles should not be driven indiscriminately within the drainage line features during maintenance activities to prevent soil compaction, contamination of the water resource and disturbance thereof. 	Negligible (negative)
Operation of the development facility and Clearance of vegetation for maintenance purposes	Establishment and spread of declared weeds	Operational	Negative (-1)	High (5)	Local (3)	Long term (4)	Definite (7)	Moderate (negative) (-84)	<ul style="list-style-type: none"> The best mitigation measure for alien and invasive species is the early detection and eradication of these species which will be ensured with the use of a monitoring programme. An alien invasive management programme should be developed and implemented in order to control alien invasive species 	Negligible (negative)
	Loss of drainage line Features Habitat and Ecological Structure	Operational	Negative (-1)	Low (2)	Site only (2)	Short term (2)	Unlikely (3)	Negligible (negative) (-18)	<ul style="list-style-type: none"> Any areas where active erosion within the drainage line features are observed must be immediately rehabilitated in such a way as to ensure that the hydrology of the area is reinstated to conditions which are as natural as possible; Cutting/ clearing of the herbaceous layer within the drainage line areas along the linear development should be avoided so as to retain soil stability provided by the grass root structures 	Negligible (negative)
	Changes to Ecological and	Operational	Negative (-1)	Low (2)	Site only (2)	Short term (2)	Likely (5)	Negligible (negative)	<ul style="list-style-type: none"> Monitor the drainage line feature for erosion and incision; Maintain the REC for each of the drainage line features, as stated within the 	Negligible (negative)

DRAFT BAR_PROPOSED MADIMBO MIXED COMMERCIAL USE DEVELOPMENT

Activity/Aspect	Impact	Phase	Nature	Intensity	Spatial Scale	Duration	Probability	Rating Pre Mitigation	Mitigation measures	Rating Post Mitigation
	Socio-Cultural Services Provision							(-30)	<ul style="list-style-type: none"> report during the life of the development; and Implement an alien vegetation control program within the drainage line features and ensure establishment of indigenous species within areas previously dominated by alien vegetation. 	
Waste generation	Mishandling of waste	Construction	Negative (-1)	High (5)	Local (3)	Short Term (2)	High (6)	Minor (negative) (-60)	<ul style="list-style-type: none"> The waste generated on site must be separated into waste streams i.e. general waste, construction rubble, hazardous waste, scrap metal and other construction waste; All bins and skips must be clearly labelled to indicate the waste stream; The waste skip containing hazardous waste must be kept within a concreted, bunded area; Use a licensed waste contractor for the collection of waste generated on site. The collected waste must be disposed of at a registered/authorised landfill site and proof of disposal must be kept; The ECO should keep all records of waste generated and disposed of. A waste register must be part of these records. Do not bury wastes on-site; Burning of waste is not allowed. 	Negligible (negative)
Maintenance of the development facility and associated infrastructure	Continuation of jobs during the operational phase of the development through maintenance of infrastructure	Operational	Positive (+1)	Low (2)	Local (3)	Long term (4)	Unlikely (3)	Negligible (positive) (+27)	<ul style="list-style-type: none"> Empower the workforce to develop skills that could be transferred to other sectors of the economy; Training and skills development initiatives should be initiated; and 	Minor (positive)

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)

An in depth assessment of all the potential negative and positive environmental and socio-economic issues was conducted for the proposed Madimbo mixed use commercial development. It is the view of the EAP that the proposed activity be allowed in line with the proposed recommendation put forward especially for the construction phase. As such, the proposed project is seen in positive light and may be granted authorisation.

No-go alternative (compulsory)

Looking at the possible positive long term impacts that have the potential to be enhanced, not commencing with the project would not be in the best interest of the inhabitants of Madimbo Village. The no go option would mean that the status quo remains the same in terms employment statistics and general quality of life of those in Madimbo and those passing through it along the D3701. As such, this option is not supported.

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:

1. An independent ECO must be commissioned during the Construction phase of the proposed development to ensure adherence to the conditions of any authorisations/permits;
 2. The developer must ensure that locals are looked upon favourably as it relates to employment opportunities;
 3. Excavation must take place during the dry season (April-September). If construction will be over a prolonged period, ensure that clearing, excavation and foundations are laid down in the dry season to reduce the erosion potential of the exposed surfaces;
 4. The footprint area of the must be kept a minimum. The footprint area must be clearly demarcated to avoid unnecessary disturbances to adjacent areas;
 5. The contractors used for the project should have spill kits available to ensure that any fuel or oil spills are clean-up and discarded correctly;
 6. Employees should be educated and informed of how to dispose of waste including hydrocarbon waste;
 7. All chemicals and toxicants to be used for the construction must be stored in a bunded area;
 8. All machinery and equipment should be inspected regularly for faults and possible leaks; these should be serviced off-site in a bunded area;
 9. Adequate sanitary facilities and ablutions must be provided for all personnel throughout the construction site. Use of these facilities must be enforced (these facilities must be kept clean so that they are a desired alternative to the surrounding vegetation);
 10. All removed soil and material must be stockpiled. Stockpiles must be protected from erosion, stored on flat areas where run-off will be minimised, and be surrounded by bunds;
 11. No dumping of construction material on-site may take place;
 12. All waste generated on-site during construction must be adequately managed. Separation and recycling of different waste materials should be supported. All waste must be disposed of at an appropriate disposal facility i.e. the General Waste Disposal Facility in Musina;
 13. It is recommended that as much material is pre-fabricated and then transported to site to avoid the risks of contamination associated with mixing, pouring and the storage of chemicals and compounds;
 14. Rehabilitate any exposed surfaces using the local grassland mix;

15. Any drainage line areas outside of the specific project site area must be avoided where possible;
16. The construction vehicles and machinery must make use of existing access routes as much as possible, before adjacent areas are considered for access;
17. Laydown yards, camps and storage areas must be beyond the aquatic areas. Where possible, the construction of the pipeline and crossings must take place from the existing road servitudes and not from within the aquatic systems;
18. Temporary storm water channels and preferential flow paths should be filled with aggregate and/or logs (branches included) to dissipate and slow flows limiting erosion;
19. Prevent uncontrolled access of vehicles through any drainage line systems that can cause a significant adverse impact on the hydrology and alluvial soil structure of these areas;
20. All chemicals and toxicants to be used for the development construction must be stored outside the channel system and in a bunded area;
21. All contractors and employees should undergo induction which is to include a component of environmental awareness. The induction is to include aspects such as the need to avoid littering, the reporting and cleaning of spills and leaks and general good “housekeeping”;
22. Have action plans on site, and training for contractors and employees in the event of spills, leaks and other impacts to the aquatic systems;
23. Erosion and sedimentation into drainage channels must be minimised through the effective stabilisation (gabions and Reno mattresses) and the re-vegetation of any disturbed banks;
24. Temporary and permanent erosion control methods may include silt fences, flotation silt curtains, retention basins, detention ponds, interceptor ditches, seeding and sodding, riprap of exposed embankments, erosion mats, and mulching;
25. Quarterly vegetation rehabilitation surveys need to be conducted of the vegetation within the project footprint for a period of at least a year after construction has been completed to assess vegetation regrowth and recovery;
26. An alien invasive plant management plan needs to be compiled and implemented post construction to control current invaded areas and prevent the growth of invasive on cleared areas; and
27. If any chance archaeological or palaeontological; finds are exposed during excavation, all work must stop immediately and the matter is to be reported to the SAHRA.
28. A soil management strategy must be compiled and implemented for the excavation and back-filling of trenches.
29. An infrastructure monitoring and service plan must be compiled and implemented during the operational phase.

Is an EMPr attached?

YES	NO
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The EMPr must be attached as Appendix F.

SECTION F: APPENDIXES

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix E: Comments and responses report

Appendix F: Environmental Management Programme (EMPr)

Appendix G: Other information

SECTION G: DECLARATION BY THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

I, **TINASHE RONNIE MARAMBA** 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:

HUMBA ENVIRONMENTAL CONSULTANCY

Name of company:

27 AUGUST 2020

Date: