SEDIBA FARMER PRODUCTION SUPPORT UNIT

Final Basic Assessment Report

Prepared By:

Environmental Management Group

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Prepared For:

Department of Rural Development

and Land Reform

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File Reference Number: EMB/27/20/16
Application Number:

15/08/2020

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:

Date Received:

- 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.
- This report format is current as of 07 April 2017. 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.

- 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

Environmental Management Group has been appointed by SMEC South Africa for the Department: Rural Development and Land Reform to conduct the Basic Assessment application of the Sediba Farmer Production Support Unit (FPSU)

The proposed development is situated about 100m from the Sediba village. The proposed development entails a Farmer Production Support Unit (FPSU). The FPSU is a rural small-holder farmer outreach and capacity building unit that links farmers with markets. The FPSU does primary collection, some storage, provides some processing for the local market, and extension services including mechanisation. The Proposed land uses include:

- Security Offices 27m²
- Reception and admin offices 440m²
- Office and Storage shed 600m²
- Logistic Centre 350m²
- Multi-purpose animal handling facility/Sheep shearing 300m²

This development will be constructed in two phases. Phase 1 of the development includes the construction of the office and storage shed for which no EA was required (Appendix L). Phase 2 of the development will include an additional construction of Security Offices, Reception and admin offices, Logistic Centre and a Multi-purpose animal handling facility/Sheep shearing (See Appendix C for Facility Illustration). Phase 2 will trigger Activity 27, Listing Notice 1.

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
Example: GN 327 Item xx xx): The construction of a bridge where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.	A bridge measuring 5 m in height and 10m in length, no wider than 8 meters will be built over the Orange river

NEMA GN R327 07 April 2017 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 purpose undertaken in accordance with maintenance management plan.are not yet weaned

The total development footprint of the proposed FPSU is expected to be 1700 square meters so it will exceed the clearing of more than 1000 square meters but less than 20 Hectares

2. FEASIBLE AND REASONABLE ALTERNATIVES

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

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- I the design or layout of the activity:
- (d) the technology to be used in the activity;
- I 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.

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.

E) Site alternatives

Alternative 1 (preferred alternative)

Description	Lat (DDMMSS)	Long (DDMMSS)
Sediba 35	29° 05'38.63"	26° 50'10.27"
	Alternative 2	
Description	Lat (DDMMSS)	Long (DDMMSS)
N/A		
	Alternative 3	
Description	Lat (DDMMSS)	Long (DDMMSS)
N/A		

In the case of linear activities:		
Alternative:	Latitude (S):	Longitude I:
Alternative S1 (preferred)		
 Starting point of the activity 	N/A	
 Middle/Additional point of the activity 		
 End point of the activity 		
Alternative S2 (if any)		
 Starting point of the activity 	N/A	
 Middle/Additional point of the activity 		
 End point of the activity 		
Alternative S3 (if any)		
 Starting point of the activity 	N/A	
 Middle/Additional 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.

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

End point of the activity

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Corner A	29° 1'11.10"S	26°56'47.58"E
Corner B	29° 1'13.23"S	26°56'48.12"E
Corner C	29° 1'14.19"S	26°56'48.92"E
Corner D	29° 1'14.04"S	26°56'54.93"E
Corner E	29° 1'9.72"S	26°56'55.12"E
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)

Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)

c) Technology alternatives

Alternative 1 (preferred alternative)		
N/A		
	Alternative 2	
	Alternative 3	

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

Alternative 1 (preferred alternative)			
N/A			
	Alternativ	e 2	·
	Alternativ	e 3	

e) No-go alternative

The proposed FPSU development is preferred above the No-go option for reasons including that the land is earmarked for agricultural development, and therefore the FPSU development will contribute to the local economy in the short term (construction phase) and create a larger number of permanent employment opportunities in the longer term (operational phase).

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

3. PHYSICAL SIZE OF THE ACTIVITY

E) 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)

or, for linear activities:

Size of the activity:

21600m ²	
	m^2
	m^2

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

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 th	e site	/servitude:
			m ²

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 proposed project is located at Sediba Village that is approximately 35km from Thaba Nchu in the North Eastern direction. Thaba Nchu is a town which is approximately 60km east of Bloemfontein that falls under the Mangaung Metro Municipality. The study area is on a ridge and the access gate to the proposed site is from the eastern direction. The site terrain comprises a typical crest with a flat area on the north western part of the site boundary and steep slopes towards the south eastern area (See Appendix A)

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:

- 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?

The proposed development site is situated on a property zoned as agricultural. As such small to medium scale agriculture such as the proposed activity is permitted.

- 2. Will the activity be in line with the following?
 - (a) Provincial Spatial Development Framework (PSDF)

 YES

 NO

 Please explain

The proposed development is in line with the PSDF since it promotes shortcomings and addresses issues as stated in the paragraphs below:

On page 131 of the Free State SDF the following is stated that:

The protection and appropriate use of high potential agricultural land is of critical importance for sustainable economic growth and food security. High potential agricultural land in close proximity to settlements are often subjected to non-agricultural development pressure, while negative social impacts associated with such settlements often have a significant detrimental impact on the production potential of such land. It is therefore imperative that the highest priority be given to the protection of high potential agricultural land and that measures be instituted to create and maintain circumstances conducive to sustainable agriculture.

Agriculture is still one of the most labour-intensive goods-production sectors, with substantial employment linkages. Resources are not being used sensibly, which requires urgent attention because this sector is one of the few remaining goods producers with strong direct and indirect economic and employment links to the rural poor. Increasingly, South African agriculture faces technical and structural challenges that require improved sector management, including adequate funding of research, investment in skills and training, effective communication strategies and agricultural extension. However, there are also underlying structural and policy issues that need to be addressed in order for a regeneration of rural communities to take place. The industrialisation of agriculture and the country's unique ecosystems also demand that attention be paid to advances in ecological approaches to sustainable agriculture.

(b) Urban edge / Edge of Built environment for the area YES NO Please explain

The activity is located in a village where small holder agriculture can be accommodated or coincide with the urban edge line.

(IDP) Integrated Development Plan and **Spatial** Development Framework (SDF) of the Local Municipality (e.g. would the approval of this application compromise YES NO Please explain the integrity of the existing approved and credible municipal IDP and SDF?). Mangaung Municipality has a goal to promote sustainable agriculture. According to the Mangaung Metropolitan Municipality Spatial Development Framework and the Draft Integrated Development Plan (2017) One of the strategic locations of economic growth is to identify and demarcate land suitable for peri-urban farming. The proposed development will take place on an agricultural land. (d) Approved Structure Plan of the Municipality YES Please explain According to the Mangaung Metropolitan Municipality Spatial Development Framework and the Draft Integrated Development Plan (2017) One of the strategic locations of economic growth is to identify and demarcate land suitable for farming. Environmental Management Framework (EMF) adopted by the Department (e.g. Would the approval of this application compromise the integrity of the existing YES Please explain NO environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?) The EMP will form part of this application and will be implemented throughout the construction and operational phases of the project. This document will ensure that existing environmental management priorities for the area are not compromised. Any other Plans (e.g. Guide Plan) YES NO Please explain 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 YES Please explain O*A* authority (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)? The proposed area is currently zoned as agricultural. The activity is an agricultural activity, which falls in line with the SDF. 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 YES OA Please explain national priority, but within a specific local context it could be inappropriate.) The proposed development addresses poverty within the local community through the

generation of employment opportunities, as well as food security and nutrition by linking farmers with markets. The activity will result in job creation, both permanent and temporary

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? Please explain YES NO (Confirmation by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.) Efficient municipal services are available for the development. 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 Please explain YES QLA opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.) This development is provided for in the infrastructure planning of the municipality. 7. Is this project part of a national programme to address an Please explain YES QA national concern or importance? The agricultural sector in South Africa plays a valuable role in ensuring the sustainable supply of food to our growing population and represents one of the main sources of revenue. As such the project plays its part in addressing issues of national concern in terms of sustainable agriculture. The activity will result in job creation, both permanent and temporary and will also aid in addressing food security. 8. Do location factors favour this land use (associated with the activity applied for) at this place? (This relates to the NO Please explain YES contextualisation of the proposed land use on this site within its broader context.) The proposed area is currently zoned as agricultural. The activity is an agricultural activity, which falls in line with the SDF. 9. Is the development the best practicable environmental option YFS Please explain OH for this land/site? The proposed FPSU will be an agricultural development within an area zoned as agricultural. The surrounding land use is mainly small-scale agriculture and the zoning of the area

provides for agriculture; therefore, the proposed activity is in line with the land use zoning.

10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?

YES

OA

Please explain

The negative impacts identified during the impact assessment as well as those raised by the I&AP's will be addressed by implementing the mitigation measures contained in this report, which will in turn eliminate the majority of negative impacts. The positive impacts associated with the proposed land use will not only be of great benefit for the local community in terms of employment opportunities, but will also aid in addressing issues of national concern in terms of sustainable agriculture.

11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?

YES

04

Please explain

The proposed development will set a precedent for similar activities in the area and aid in the creation of jobs in the area as well as the continual growth of sustainable and suitable farming as identified as one of the strategic locations of economic growth by Mangaung Metropolitan Municipality Spatial Development Framework and the Draft Integrated Development Plan (2017).

12. Will any person's rights be negatively affected by the proposed activity/ies?

YES

NO

Please explain

After addressing all issues raised by the I&AP's, impacts identified during the impact assessment and implementing all the proposed mitigations, no rights of the surrounding landowners nor the surrounding environment will be negatively affected, provided that the applicant adheres to the proposed mitigations, recommendations and conditions of this report and the EMP.

13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?

YES

NO

Please explain

The activity is located at the outer boundary within which urban expansion and small holder agriculture can be accommodated or coincide with the urban edge line.

14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?

YES

OA

Please explain

No. 11: Agri-Logistics and Rural Infrastructure

15. What will the benefits be to society in general and to the local communities?

Please explain

Food security and the lack of knowledge are two of the main concerns under the local farmer and general communities of the Free State Province. The FPSU provide essential and efficient farmer support services and training to developing farmers in the Mangaung local area. These support and training services will focus on the agricultural commodities and input requirements identified in the farmer needs assessment. The FPSU will also incorporate private sector businesses, forums, union, and other stakeholders to assist with training and the provision of support services.

16. Any other need and desirability considerations related to the proposed activity?

Please explain

Food security is one of the main concerns in the local farming sector and general communities of the Free State Province. The facility supplies job opportunities as well as the opportunity of skills development and transfer to local community and additional work for contractors in the area.

17. How does the project fit into the National Development Plan for 2030?

Please explain

Agriculture has the potential to create close to 1million new jobs by 2030, a significant contribution to the overall employment target. Therefore, the project fits into the National Development Plan. South Africa has strategies to achieve this by developing strategies that give new entrants access to product value chains and support from better-resourced players

18. Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account.

Section 23 requires the following general objectives:

- (2) The general objective of integrated environmental management is to—
- a. Promote the integration of the principles of environmental management set out in section 2 into the making of all decisions which may have a significant effect on the environment;
- b. Identify, predict and evaluate the actual and potential impact on the environment, socioeconomic conditions and cultural heritage, the risks and consequences and alternatives and options for mitigation of activities, with a view to minimising negative impacts, maximising benefits, and promoting compliance with the principles of environmental management set out in section 2:
- c. Ensure that the effects of activities on the environment receive adequate consideration before actions are taken in connection with them:
- d. Ensure adequate and appropriate opportunity for public participation in decisions that may affect the environment;
- e. Ensure the consideration of environmental attributes in management and decision-making which may have a significant effect on the environment; and
- f. Identify and employ the modes of environmental management best suited to ensuring that a particular activity is pursued in accordance with the principles of environmental management set out in section 2.

These are achieved as follows:

- a) Decision making based on the findings of the BAR process
- b) Impacts have been identified, predicted and evaluated in terms of environmental, socioeconomic and cultural heritage environment. The risks, consequences and alternatives and options for mitigation have been evaluated.
- c) This BAR process and the EMP ensure that the effects of the activities on the environment receive adequate consideration before actions are taken in connection with them.
- d) There will have been adequate and appropriate opportunity for public participation that will lead to the decision being taken.
- e) Environmental attributes have been considered in management and decision making.
- f) The modes best suited to environmental management for this activity have been followed and recommended.

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

NEMA Section 2 requires:

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

This has been achieved as follows:

The environmental management relating to the proposed project by the construction of the proposed layer houses has been set up in such a way as to place the needs of people at the forefront of its concern while addressing the environmental issues concerning the establishment of the facility. The facility has been designed to allow for addition of modules utilizing the same infrastructure which allows for true sustainable management.

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	The proposed FPSU is a	National and	April
Management Act (Act 107 of 1998)	listed activity requiring environmental authorisation in terms of the Environmental Impact Assessment Regulations, 2017 promulgated under sections 20 and 44 of the National Environmental Management Act, 1998 (Act No.107 of 1998). The applicable activities are in terms of Listing Notice 1 (GNR 327) of 2017, which trigger a Basic Assessment	provincial	2017
Environmental Impact	application process.	DECTEA	2044
Environmental Impact Assessment Regulations, 2014	Competent Authority	DESTEA	2014
National Development Plan		National Government	2012
Constitution of the	of special relevance in terms	Constitution of the	1996

Republic of South Africa (1996)	of environment is section 24	Republic of South Africa	
Occupational Health and Safety Act, 1993 (Act No. 85 of 1993):	The purpose of this Act is to provide for the health and safety of persons at work and for the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with, the activities of persons at work. The proposed development will therefore be subject to this Act during the construction and operational Application for Environmental Authorisation.	Department of Labour	1993

12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

E) Solid waste management

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

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

YES NO

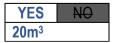
How will the construction solid waste be disposed of (describe)?

This solid construction waste will be separated into non-recyclables and recyclables and stored separately for collection. Non-recyclables will be collected and stored in fenced areas at a holding facility at the construction camps established. The construction waste will be removed from site by the appointed contractor to a registered waste disposal site.

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

Waste from the site will be collected by waste trucks on a weekly basis and disposed of at the nearest registered landfill site

Will the activity produce solid waste during its operational phase? If YES, what estimated quantity will be produced per month? How will the solid waste be2² disposed of (describe)?



It will be disposed of into the Municipal system.

If the solid waste will be disposed of into a municipal waste stream, indicate which registered landfill site will be used.				
Regional landfill site in the Mangaung Metropolitan Municipality				
Where will the solid waste be disposed of if it does not feed into a municipal waste stream (describe)?				
N/A				
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? If YES, what estimated quantity will be produced per month? 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? 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:				
N/A.				

c) Emissions into the atmosphere

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

YES NO

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

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 air emissions generated by the FPSU facility do not require an Air Emissions License as per NEM:AQA (Act No 39 of 2004). The relevant impacts of these odours have been assessed in the Impact Assessment Section (Section D).

d) Waste permit

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



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?

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

YES	OH
YES	NO

Describe the noise in terms of type and level:

The noise generated by the FPSU facility will not exceed thresholds. The relevant impact for the noise generated has been assessed in the Impact Assessment Section (Section D).

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 dam or lake Other 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:

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



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:

Most of the equipment and machinery used during construction is self-powered and does not require electricity

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

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

- 2. Paragraphs 1 6 below must be completed for each alternative.
- 3. Has a specialist been consulted to assist with the completion of this section?

 YES NO

 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
District	Mangaung Metropolitan Municipality
Municipality	
Local Municipality	Mangaung Metropolitan Municipality
Ward Number(s)	Ward 41
Farm name and	Farm Seliba 35
number	
Portion number	Remaining Extent of Farm Seliba 35
SG Code	F0320000000003500000

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:

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?

1.75	ı
YES	NO

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 S	2 (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 S	3 (if any):					
Flat	1:50 - 1:20	1:20 – 1:15	1:15 – 1:10	1:10 — 1:7,5	1:7,5 – 1:5	Steeper than 1:5

2. LOCATION IN LANDSCAPE

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

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

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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

Shallow water table (less than 1.5m deep)

Dolomite, sinkhole or doline areas

Seasonally wet soils (often close to water bodies)

Unstable rocky slopes or steep slopes with loose soil

Dispersive soils (soils that dissolve in water)

Soils with high clay content (clay fraction more than 40%)

Any other unstable soil or geological feature

An area sensitive to erosion

Alternative S1:

YES	NO
YES	NO
¥ES	NO
YES	NO
YES	NO

Alternative S2 (if any):

· •	
YES	NO

Alternative S3 (if any):

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 conditionE	Natural veld with scattered aliens ^E	Natural veld with heavy alien infestation ^E	Veld dominated by alien species	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.

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 [#]
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
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	Harbour	Gravovard
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:

N/A

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:



The proposed footprint is located on previously developed land surrounded by the remains of old rectangular kraals most likely linked to historical residential occupation as indicated in the Heritage Impact Assessment (Appendix D). However these structures will not be affected by the proposed development

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:

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

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

YES	NO
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

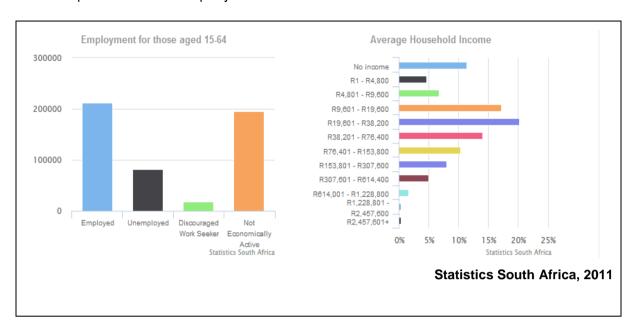
a) Local Municipality

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

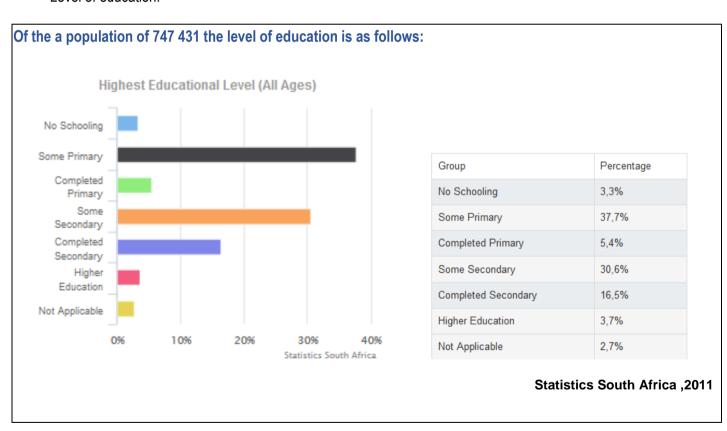
Level of unemployment:

Mangaung Metro Municipality has a population of 747 431 with the unemployment rate estimated at 27.7%. Of the 292 971 economically active (employed or unemployed but looking or work) people in Mangaung, 27.7% are unemployed. 37.2% of the 150 128 economically active youth (15 – 34 years) in the area are unemployed

Economic profile of local municipality:



Level of education:



b) Socio-economic value of the activity

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

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

Will the activity contribute to service infrastructure?

Is the activity a public amenity?

How many new employment opportunities will be created in the development and construction phase of the activity/ies?

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

What percentage of this will accrue to previously disadvantaged individuals?

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

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

What percentage of this will accrue to previously disadvantaged individuals?

	N/A
	N/A
YES	NO
YES	O W
It stated	that commercial

It stated that commercial agriculture has the potential to create 250 000 direct jobs and a further 130 000 indirect jobs. This particular FPSU at Sediba contributes to this goal of the National Development Plan

Building contractors will have to be consulted in this regard.

Building contractors will have to be consulted in this regard.

The Developer of the FPSU will consulted of how many opportunities will be available once it is operational.

The Developer will be consulted in this regard.

100%

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	Other Natural Area	No Natural Area Remaining	N/A N/A
Alea (CDA)	(ESA)	(ONA)	(NNR)	N/A

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	0%	N/A
Near Natural (includes areas with low to moderate level of alien invasive plants)	20%	N/A
Degraded (includes areas heavily invaded by alien plants)	70%	Tramping has occurred on site as a result of new developments.
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	10%	The site has transformed as there is infrastructure that is developed.

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 Eco	systems	
Ecosystem threat Status as per the National		Wetland (including rivers,		
		depressions, channelled and unchanneled wetlands, flats,	Estuary	Coastline
Environmental	Vulnerable	seeps pans, and artificial	Estuary	Coastille
Management:	Least	wetlands)		

Terrestrial Ecos	ystems	Aquatic Ecosystems						
Biodiversity Act (Act No. 10 of 2004)	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 vegetation within the area is considered as Central Free State Grassland (Gh 6). The vegetation type, Central Free State Grassland (Gh 6), is considered to be of Least Concern. The vegetation type is not currently subjected to any pronounced development pressures. A significant portion of the vegetation type has been transformed for cultivation. The area within which the vegetation type is situated does not contain any large urban areas which are responsible for the transformation of vegetation.

As a consequence, the vegetation type is not considered as a Threatened Ecosystem.

The vegetation on the area is totally depleted and removed by means of overgrazing. Thus, the vegetation located on the development site cannot be regarded as part of the Central Free State Grassland.

The vegetation type in the area contains significant watercourses as well as several significant wetlands. These must all be considered as sensitive and no-go areas. The vegetation type contains high amounts of wetlands scattered throughout the district. These are considered highly sensitive and must be regarded as no-go areas. (See Appendix 2)

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT AND NOTICE

Publication name	Express	
Date published	8 July 2020	
Site notice position	Latitude	Longitude
	29° 1'12.12"S	26°56'49.70"E
	29° 1'27.96"S	26°56'31.84"E
	29° 3'6.87"S	26°56'54.08"E
Date placed	03 July 2020	

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)
Please refer to the Public Participation Report (Appendix E)		

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	
No comment has been received from I&APs.	N/A	

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	e-mail	Postal address
Department of Agriculture and Rural Development	Mr Thabethe	0518618509	pa.hodagric@fs.agric.za schultzjg@gmail.com	Gielie Joubert St Glen, BFN, 9360
Department of Water & Sanitation	Mr Vernon Blair	0514059000 0828073552	blairV@dws.gov.za	Bloem Plaza 2nd Floor c/o Charlotte Maxeke & East Burger Streets Private Bag 528 Bloemfontein 9300
Free State Department of Public Works and Infrastructure	Ms G Brown	0514923909	hodoffice@fsworks.gov.za	Cnr Markgraaf & St Andrew's Streets Bloemfontein 9301
Department of Heritage (Department of sports, arts, culture and recreation)	Ms. Ntando Mbatha	0514104750 / 4738/4829	loudine.philip@nasmus.co.za	Private Bag X 20606 Bloemfontein 9300
Mangaung Metropolitan Municipality Manager Environmental	Mr. Mpolokeng Kolobe	0514058577 0514058429	mpolokeng.kolobe@mangaun g.co.za vivian.minnaar@mangaung.co .za	Room 1017, 10th Floor, Bram Fischer's Building, Bloemfontein, 9301

Assessment				
Executive Mayor	Clir. Olly Mlamieli	0514058494	Bram Fisc	Mangaung tan

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.

Activity	Impact summary	Significance	Proposed mitigation		
Alternative 1 (Alternative 1 (preferred alternative)				
	Flora and	l Fauna			
Clearance of Vegetation	Direct impacts:	LOW- MODERATE	 Only vegetation within the vicinity of the FPSU can be removed. Keep vegetation removal to a minimum and only what is required. 		
	Indirect impacts:	LOW	 Minimal to no vegetation removal around or within wetlands, watercourses or protected areas. The construction area must be demarcated to prevent movement in private 		
	Cumulative impacts:	LOW	property and adjacent natural veld. Topsoil must be stockpiled and kept clean from alien vegetation. This topsoil must be used for rehabilitation purposes. Contain the natural environment and ensure the Environmental Management Plan is		

Activity	Impact summary	Significance	Proposed mitigation
			 adhered to. No removal of indigenous vegetation or protected species.
Land transformation – Veldfire	Direct impacts:	LOW	The Developer will ensure that firefighting equipment is available onsite in the event that an accidental fire should
	Indirect impacts:	LOW	break out. Construction workers will not be allowed to make fires on the site. Construction activities that generate heat or an open
	Cumulative impacts:	LOW	flame should be monitored and appropriate measure taken to prevent run away veld fires. A Fire Management Plan must be present on site The local fire station, landowner and neighbouring landowners must be alerted about potential of causing a fire.
Unauthorized vehicle movement	Direct impacts: Indirect impacts:	LOW- MODERATE LOW	Vehicles must stay to existing gravel roads during any maintenance activities.
	Cumulative impacts:	LOW	Vehicle drives must be informed where it is safe to drive.
Hunting and gathering of Fauna	Direct impacts:	LOW- MODERATE	No hunting or trapping of animals to be permittedNo fauna or flora should be
	Indirect impacts:	LOW	eradicated unnecessarily and should be discussed during the monthly toolbox talks.
	Cumulative impacts:	LOW	A specialist must be consulted to identify sensitive species, highly susceptible to disturbances caused by construction. If species like this are found

Activity	Impact summary	Significance	Proposed mitigation
			on the construction footprint, a search-and-relocate must be implemented for them.
Loss of habitat and species diversity	Direct impacts:	MODERATE	 Limit the amount of construction sites that are worked on simultaneously. Proper rehabilitation of construction sites with special
	Indirect impacts:	LOW	 attention given to wetlands and watercourses. Consult an ecologist with regards to sustainable rehabilitation of the disturbed areas. Construction footprint to be
	Cumulative impacts:	LOW- MODERATE	demarcated as per the construction phase conditions outlined Construction vehicles will be restricted to travel only on designated roadways to limit the ecological footprint of the proposed development Rehabilitation measures must be implemented in areas where the soil surface was disturbed
	Herita	age	
Artefacts and Fossils	Direct impacts:	MODERATE	Upon finding any archaeological or historical material all work at the affected area must cease
	Indirect impacts:	LOW	The area will be demarcated in order to prevent any further work there until an investigation has been completed
	Cumulative impacts:	LOW	An archaeologist will be contacted immediately to provide advise on the matter.
	Indirect impacts:	LOW	 provide advice on the matter Should it be a minor issue, the archaeologist will decide on future action, which could include adapting the HIA or
	Cumulative impacts:	LOW	not. Depending on the nature of the find, it may include a site

Activity	Impact summary	Significance	Proposed mitigation
			visit SAHRA's APM Unit will be notified If needed the necessary permit will be applied for with SAHRA. This will be done in conjunction with the appointed archaeologist.
	Water Res	ources	
Surface and ground water Quality	Direct impacts:	MODERATE	Surface contamination of the soil through hazardous materials should be cleaned up immediately and disposed of properly. All vehicles must be fitted with
	Indirect impacts:	LOW	 All vehicles must be fitted with a drip tray and leaking vehicles must be repaired off site at a designated workshop area. It is recommended to use alternative substances to those that are hazardous especially near sensitive
	Cumulative impacts:	LOW- MODERATE	 areas such as watercourses and wetlands. Any maintenance taking place in the FPSU should have a spillage treatment kit with them at all times. All spillages must be cleaned before leaving a site. All animal waste is to be removed and disposed to a registered Landfill site
Hydrological – Storm water System and	Direct impacts:	MODERATE- HIGH	Storm water run-off generated within the development should be

Activity	Impact summary	Significance	Proposed mitigation
water supply	Indirect impacts:	LOW- MODERATE	accommodated through formal system. If groundwater resources are to be abstracted in the
	Cumulative impacts:	LOW- MODERATE	future water meters will be installed at every abstraction point and will be sent to DWS on a monthly basis. Storm water system should be implemented.
	Aestho	etics	
Construction of the FPSU	Direct impacts:	MODERTARE	 It is recommended that the number of construction sites be kept to a minimum to lower the overall aesthetic impact. Once an area is completed it is
	Indirect impacts:	LOW	recommended that the area be rehabilitated before moving on to the next section through levelling off the ground and re-
	Cumulative impacts:	LOW	vegetating the excavated areas. Trenches may not be kept open and unattended for longer than 30 days. Maintenance of the developed FPSU site should occur as quickly as possible to minimize the overall aesthetics value created by open trenches, soil heaps, construction signs and still standing vehicles
Location of FPSU	Direct impacts:	LOW- MODERATE	 Avoid excessive clearance of vegetation and disturbance to the area. It is recommended that after
	Indirect impacts:	LOW	the construction phase and before the operational phase, that indigenous trees be planted around the
	Cumulative impacts:	LOW	disturbed and cleared area to recover some aesthetic value for the area as well as blending the FPSU into the environment.

Activity	Impact summary	Significance	Proposed mitigation
			 Monitoring the occurrence of rodents and manage by means of traps Regularly inspections by the owner as well as state veterinary services Proper disposal of condemned animal mortalities to prevent distribution of diseases The premises must be fenced and provided with a gate to control access of people and
	Noise and A	ir Quality	animals
Generation of noise	Direct impacts:	LOW- MODERATE	 No loud music at any construction sites. Vehicles must be maintained in such a manner as to not cause
	Indirect impacts:	LOW	 excessive noise when operating them. Construction should take place between 8;00 and 17:00. The speed limit will be 40km/h on all roads running through and accessing the study area
	Cumulative impacts:	LOW	 Equipment/ machinery to be used must comply with manufacturers specifications acceptable noise levels Maintain a complaints and grievance register and act promptly to complaints regarding noise. Ensure that the FPSU is Adequately constructed to buffer noise coming from the FSPU facility. Also, maintain the FPSU in such a manner that it does not cause excessive noise
Air quality	Direct impacts:	LOW- MODERATE	Confine vehicle movements on unpaved roads to demarcated areas only Ensure that site drainage

Activity	Impact summary	Significance	Proposed mitigation	
	Indirect impacts:	LOW	carries spillage of clay or coal fines away from traffic movement zones Spraying of clay or coal stockpiles if wind erosion is	
	Cumulative impacts:	LOW	 observed. Set up water sprayers along haul roads to dampen dust and minimise dust loading to surrounding vegetation. Speed control for all roads to limit dust generation. If animal waste is immediately removed from the facilities no unpleasant smells will occur. The handling removal and disposal for animal waste products must be in terms of legal requirements and as per guidance through an approved operational Environmental Management Plan 	
No-go option Activity will	Direct impacts:	HIGH	If this project has been	
not proceed and the environment	Direct impacts:	ПІЗП	If this project has bee identified as a no-go option, jo opportunities will be lost to th local communities. This project will also stimulate the local	
is left as it is. The impact is assed from the need of this project to continue as part of ensuring the	Indirect impacts:	MODERATE	economy. Furthermore, if this project is rejected there will be no larger number of permanent employment opportunities in the longer term in the area of Thaba Nchu and Sediba.	
sustainability of food supply to our growing population and will result in job creation, both permanent and temporary	Cumulative impacts:	HIGH		

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
and will also			
aid in			
addressing			
food security			

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 <u>after</u> 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)

In terms of the potential impacts resulting from the proposed preferred development during the *planning, design construction and operational phase*, the most significant impacts are those related to land transformation i.e. impact on fauna, loss of floral species; loss of habitat, visual impact associated with the clearing of vegetation; the construction of roads; increased levels of dust; and socio-economic impacts associated with a potential increase in loitering and petty crime associated with casual labour.

The primary findings of the above processes were that the proposed development of the FPSU would probably result in:

- No negative environmental impacts of high significance;
- Potential positive impacts due to increased economic activity, employment and capacity building.

Other less significant impacts include increased noise and traffic levels due to construction vehicles.

All of these impacts can be adequately addressed by the implementation of suitable mitigation measures.

In terms of potential impacts resulting from the proposed preferred development during the operational phase, the most significant impacts are those related to land transformation and increase traffic generation and waste generation by the FPSU.

Major positive impacts during the operational phase is socio-economic, educational and food security. All of these will enhance the livelihoods of the local community.

Other less significant impacts include increased domestic waste.

All of these impacts can be adequately addressed by the implementation of suitable mitigation measures.

The preferred layout option is selected above any other alternative layout options if those consider higher dwelling density, this will only increase water demand and sewage removal during the operational Phase.

In the opinion of Environmental Management Group, there are no environmental impacts that

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have been identified that will be detrimental to the environment to such an extent that the proposed development should not be permitted, nor were any sensitive environmental components or fatal environmental flaws identified within the study area, thus that should result in refusal of environmental authorization for this application. Therefore, it is recommended that this application receives favourable consideration, given that the overall social impact of this proposed activity will be of a positive nature.

Alternative B

Alternative C

No-go alternative (compulsory)

This option assumes that a conservative approach would ensure that the environment is not impacted upon any more than is currently the case. It is important to state that this assessment is informed by the current condition of the area. Should the Competent Authority decline the application, the 'No-Go' option will be followed and the status quo of the site will remain in the same degraded and un-preferred operational state.

SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the sufficient to make a decision in respect of the active environmental assessment practitioner)?		YES NO
If "NO", indicate the aspects that should be asse before a decision can be made (list the aspects that		g and EIA process
If "YES", please list any recommended condition considered for inclusion in any authorisation that most the application. N/A		
Is an EMPr attached? The EMPr must be attached as Appendix G.		YES NO
The details of the EAP who compiled the BAR at Assessment process must be included as Appendix	•	perform the Basic
If any specialist reports were used during the cominterest for each specialist in Appendix I.	pilation of this BAR, please attach	the declaration of
Any other information relevant to this application Appendix J.	and not previously included mu	ust be attached in
NAME OF EAP		
SIGNATURE OF EAP	DATE	

SECTION F: APPENDIXES

The following appendixes must be attached:

Appendix A: Maps

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports (including terms of reference)

Appendix D (i): Phase 1 Heritage Impact Assessment

Appendix E: Public Participation Report

Appendix F: Impact Assessment

Appendix G: Environmental Management Programme (EMPr)

Appendix H: Details of EAP and expertise

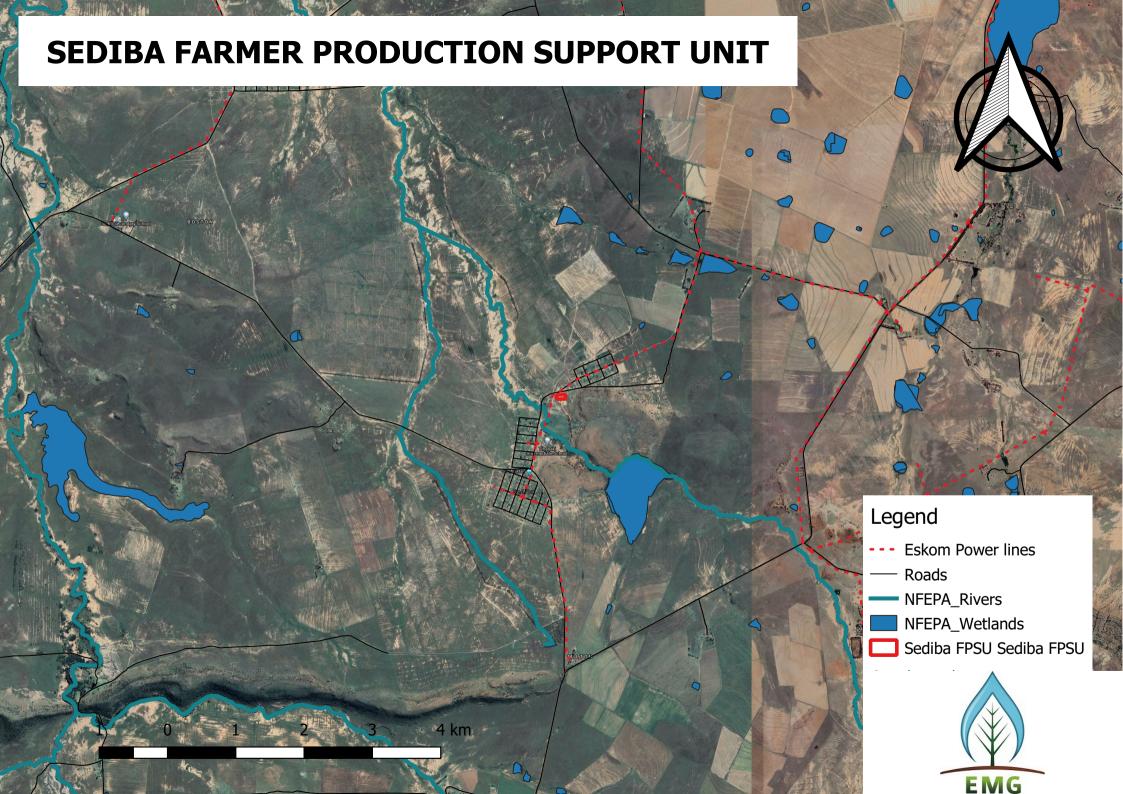
Appendix I: Specialist's declaration of interest

Appendix J: Title Deeds

Appendix K: Landowner's consent letter

Appendix L: Enquiry response

Appendix A: Maps



Appendix B: Photographs



















BASIC ASSESSMENT REPORT











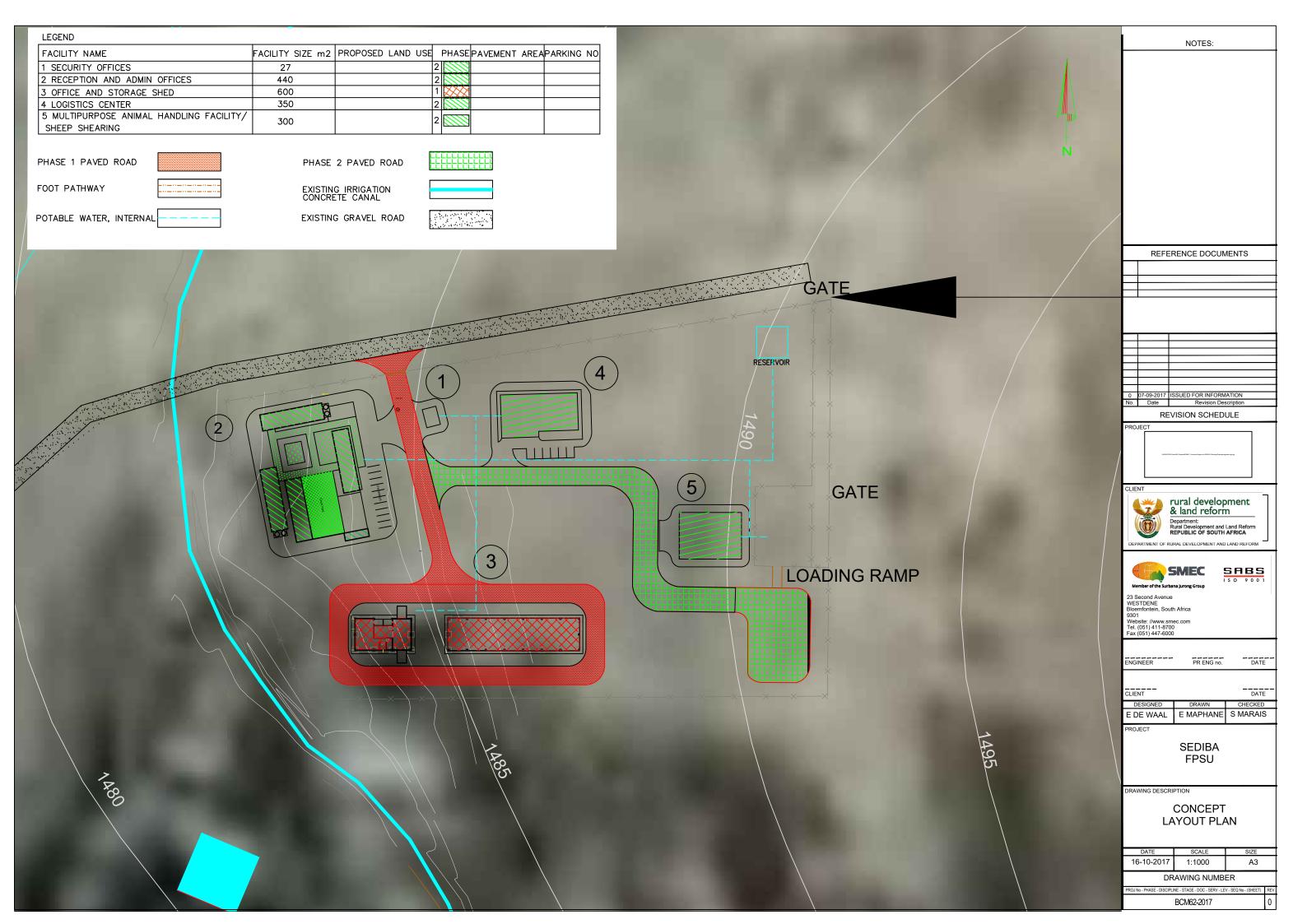


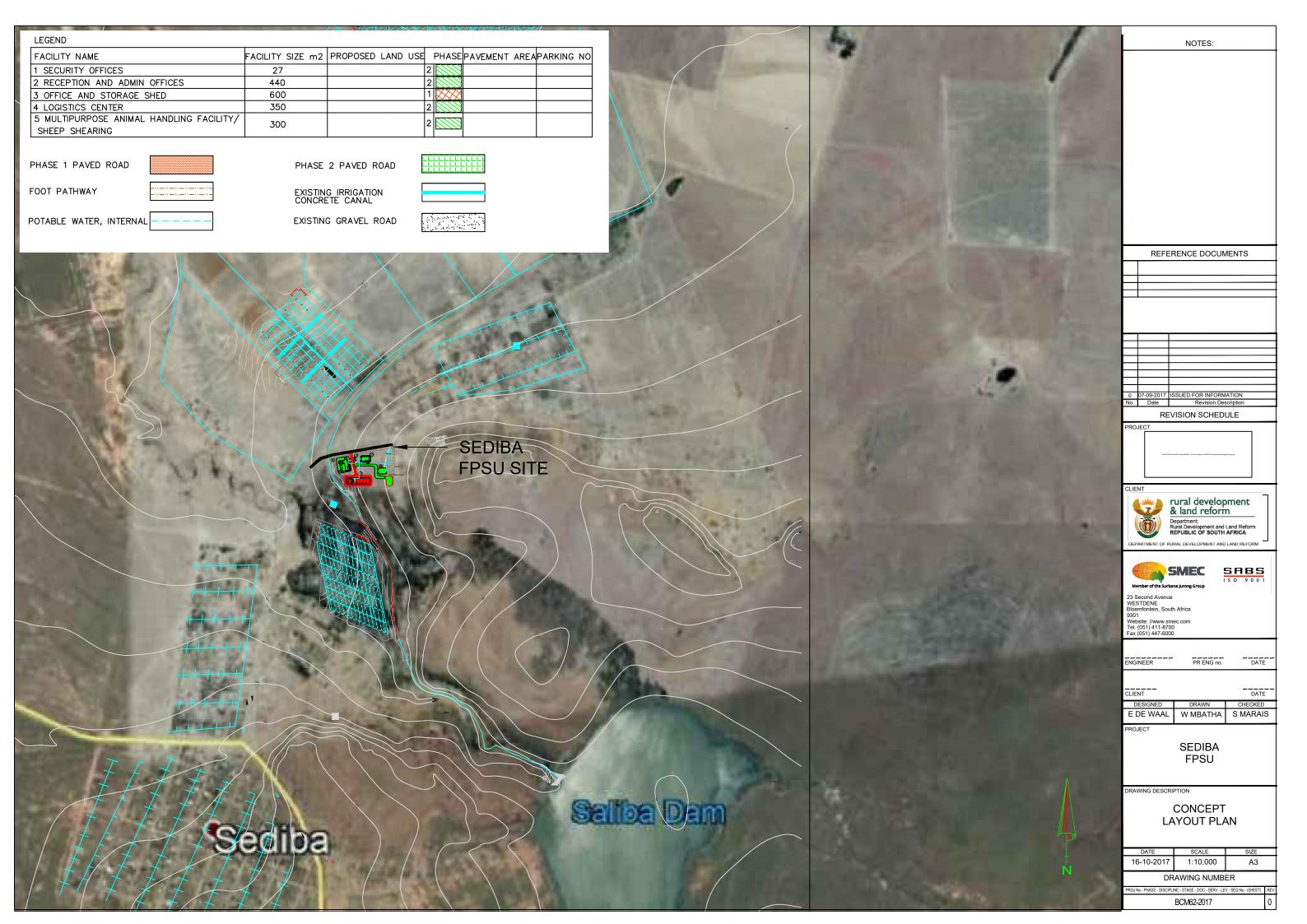






Appendix C: Facility illustration(s)





Appendix D: Specialist reports

Appendix D (i): Phase 1 Heritage Impact Assessment

Phase 1 Heritage Impact Assessment of a proposed new FPSU on the farm Sediba 35 near Excelsior, FS Province.

Report prepared by Paleo Field Services PO Box 38806 Langenhovenpark Bloemfontein, 9330 02/08/2020

Summary

A Phase 1 Heritage Impact Assessment was carried out for the establishment of a FPSU facility covering ± 3ha on the farm Sediba 35, which is located about 16 km southwest of Excelsior in the Free State Province. The residual topsoils (Quaternary sediments) have been completely degraded as a result of prior agricultural, residential and industrial activities. In accordance with the types and ranges of heritage resources as outlined in Section 3 of the National Heritage Resources Act (No 25 of 1999) there is no above-ground evidence to suggest that historically significant building structures older than 60 years or material of cultural significance or archaeological sites will be affected within the demarcated area. The site is underlain by dolerite that is capped by superficial (Quaternary) deposits of low to very low palaeontological sensitivity, the latter being that the impact area is not situated within or near pan, well-developed alluvial or spring deposits (considered to be potentially fossiliferous in the region). The proposed footprint is located on degraded terrain. Potential impact on in situ Stone Age archaeological material, graves, rock engravings, prehistoric structures or historically significant building structures older than 60 years within the impact footprint is considered unlikely. The terrain in general is regarded as of low archaeological significance and is assigned a rating of Generally Protected C (GP.C). As far as the archaeological and palaeontological heritage is concerned, the proposed development may proceed with no additional heritage assessments necessary, provided that all industrial activities are restricted to within the boundaries of the development footprint.

Introduction

A Phase 1 Heritage Impact Assessment was carried out for the establishment of a FPSU on the farm Sediba 35, located about 15 km southwest of Excelsior in the Free State Province (**Fig. 1 & 2**). Planned development includes multiple animal handling areas and offices. The study is required in terms of Section 38 of the National Heritage Resources Act 25 of 1999 as a prerequisite for any development which will change the character of a site exceeding 5 000 m2 in extent. The task involved identification and mapping of possible archaeological heritage within the proposed project area, an assessment of their significance, related impact by the proposed development and recommendations for mitigation where relevant.

Terms of Reference

- Identify and map possible archaeological sites and occurrences using available resources.
- Determine and assess the potential impacts of the proposed development on potential archaeological resources;
- Recommend mitigation measures to minimize potential impacts associated with the proposed development.

The heritage significance of the affected area was evaluated through a desktop study and carried out on the basis of existing field data, database information and published literature. This was followed by a field assessment of the five poultry facility structures by means of a pedestrian survey. A Garmin Etrex Vista GPS hand model (set to the WGS 84 map datum) and a digital camera were used for recording purposes. Relevant archaeological information, aerial photographs and site records were consulted and integrated with data acquired during the on-site inspection. Site significance classification standards prescribed by SAHRA (2005) were used to indicate overall significance and mitigation procedures where relevant (Table 1).

Locality data

1:50 000 scale topographic map: 2926 BB Thaba Nchu

1:250 000 scale geological map 2926 Bloemfontein

The geology of the region has been described by Theron (1963) and Johnson (2006). It is situated within the Beaufort Group (Karoo Supergroup), and is primarily represented by late Permian, Adelaide Subgroup sedimentary rocks, which are made up of alternating sandstone and mudstone layers. Dykes and sills of resistant Jurassic dolerites determine the relief in the region (**Fig. 3**).

The site is capped by younger, superficial deposits of Quaternary age consisting mainly of degraded topsoils of varying depth. The impact footprint will cover ± 3 ha of on previously developed land on the farm Sediba 35, located about 16 km southwest of Excelsior (**Fig. 4**). The affected area is situated next to a large dolerite koppie and is primarily represented by relatively low-relief terrain that has been severely degraded by previous development. Old topographic maps of the area indicate that the affected area has already been subjected to informal settlement by 1953 (**Fig. 5**).

Background

Palaeontology

The local palaeontological footprint is primarily represented by Late Permian Karoo vertebrate fauna and Late Cenozoic (Quaternary) macrofossils (Broom 1909 a, b; Kitching 1977; Churchill et al 2000; Rossouw 1999, 2000, 2006). The succession of Beaufort Group sedimentary rocks is subdivided into eight biostratigraphic units, called assemblage zones (Rubidge 1995) and the sedimentary strata underlying the affected area are assigned to the Dicynodon Assemblage Zone (AZ) (Kitching 1995) (Fig. 6). This biozone is characterized by the presence of a distinctive and fairly common dicynodont genus. Therapsids and other vertebrate fossils from this biozone are usually found as dispersed and isolated specimens in mudrock horizons, associated with an abundance of calcareous nodules. Plant fossils (Dadoxylon, Glossopteris) and trace fossils (arthropod trails, worm burrows) are also present. The sediments assigned to the Dicynodon AZ are associated with deposits consisting of floodplain mudstones and subordinate, lenticular stream channel sandstones. Several fossil localities have been recorded about 30 km east of the study area with the farm Chubani lying closest (see Fig. 3)

In more recent times the central interior and what is now the Free State Province, was once a vast and highly productive grassland ecosystem. Numerous mammal fossils stretching as far back as the Middle Pleistocene are regularly discovered in the Free State Province, especially in fluvial sediments along river courses like the nearb Modder River and the Renosterspruit. Quaternary palaeontological sites, often associated with Stone Age artefacts, are found eroding out of Pleistocene alluvial terraces and dongas along the Modder River and its tributaries near Maselspoort and Mockesdam and further east along the Honingspruit near Sannaspos. Fossils discovered at various fossil sites along the Modder River and its tributaries revealed the existence of a number of open grassland adapted herbivores (*Equus capensis*, *Megalotragus priscus*, *Pelorovis antiquus*, *Antidorcas bondi and Equus lylei*). The abundance of these different sized grazers in the Free State is a reflection of the availability of abundant seasonal grassland and offers strong evidence for a stable and sustainable grassland ecosystem in the central interior of South Africa thousands of years ago.

Stone Age heritage

The archaeological footprint in the region is primarily represented by Stone Age surface occurrences, structural remnants dating back to the Anglo Boer War and its aftermath, graveyards and other historical structures older dating more than 60 years ago. The Stone Age archaeological record of Modder River catchment east of Bloemfontein spans back to the early Middle Stone Age. Prehistoric archaeological remains previously recorded in the region include stone tools and mammal fossil remains from sealed and or exposed contexts. Along much of the course of Modder River and its tributaries between Sannaspos and Bloemfontein south of the study area, alluvial deposits contain numerous occurrences of in situ Middle and Later Stone Age material eroding out of the overbank sediments where they are often found in association large mammal fossil remains (Churchill et al. 2000; Rossouw 1999, 2000, 2006). The incidence of surface scatters usually decreases away from localized areas such as alluvial contexts and doleriteshale contact zones when stone tools largely occur as contextually derived individual finds in the open veld. Stone tools are mostly made of hornfels, a finegrained isotropic rock found in the hot-contact zone between the dolerites and shales in the area.

Historical heritage

During the 19th century the Thaba Nchu area was occupied by the Barolong under the chieftainship of Moroka until it was incorporated into the Free State Republic in 1880. The history is in part represented by numerous circular stone-walled kraals found in the area between Thaba Nchu and Excelsior (**Fig. 7 & 8**). The region has also witnessed several skirmishes between British and Boer forces during the Anglo-Boer War. Following the capture of Bloemfontein by British forces during the Anglo-Boer War, military movements occurred well towards the east of Bloemfontein around Thaba Nchu.

Site Assessment

The site is underlain by dolerite that is capped by superficial (Quaternary) deposits of low to very low palaeontological sensitivity, the latter being that the impact area is not situated within or near pan, well-developed alluvial or spring deposits (considered to be potentially fossiliferous in the region).

The proposed footprint is located on previously developed land surrounded by the remains of old rectangular kraals most likely linked to historical residential occupation as indicated in Figure 5 (**Fig. 9**). These structures will not be affected by the proposed development.

Impact Statement and Recommendations

The site is situated on palaeontologically insignificant dolerites. Residual topsoils (Quaternary sediments) have been completely degraded as a result of prior agricultural and industrial activities.

 As far as the palaeontological heritage is concerned, the proposed development may proceed with no additional heritage assessments necessary, provided that all industrial activities are restricted to within the boundaries of the development footprint.

In accordance with the types and ranges of heritage resources as outlined in Section 3 of the National Heritage Resources Act (No 25 of 1999), there is no above-ground evidence to suggest that building structures older than 60 years or material of cultural significance or archaeological sites will be affected within the demarcated area.

Potential impact on *in situ* Stone Age archaeological material, graves, rock engravings, prehistoric structures within the impact footprint is considered unlikely.

• The terrain in general is regarded as of low archaeological significance and is assigned a rating of Generally Protected C (GP.C) (**Table 1**). As far as the archaeological heritage is concerned, the proposed development may proceed with no additional heritage assessments necessary, provided that all industrial activities are restricted to within the boundaries of the development footprint.

References

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Rossouw, L. 1999. Palaeontological and archaeological survey of the Riet River, Modder River and certain sections of the Gariep River Unpublished Report, Palaeo-Anthropological Research Group. University of the Witwatersrand.

Rossouw, L. 2000. Preliminary species list of Late Pleistocene / Holocene fossil vertebrate remains from erosional gullies along the Modder River NE of Sannaspos, Free State Province. Unpublished Report , Palaeo- Anthropological Research Group, University of the Witwatersrand.

Rossouw, L. 2006. Florisian mammal fossils from erosional gullies along the Modder River at Mitasrust farm, central Free State, South Africa. *Navorsinge van die Nasionale Museum* 22(6): 145-162.

Theron, J.C. 1963. Geology of Bloemfontein area. Dept. of Mines. Government Printer, Pretoria.

DECLARATION OF INDEPENDENCE

I, Lloyd Rossouw, declare that I act as an independent specialist consultant. I do not have or will not have any financial interest in the undertaking of the activity other than remuneration for work as stipulated in the terms of reference and have no interest in secondary or downstream developments as a result of the authorization of this project.

Yours truly,

Tables and Figures

Table1. Field rating categories as prescribed by SAHRA

Field Rating	Grade	Significance	Mitigation
National	Grade 1	-	Conservation;
Significance (NS)			national site
			nomination
Provincial	Grade 2	-	Conservation;
Significance (PS)			provincial site
			nomination
Local Significance	Grade 3A	High significance	Conservation;
(LS)			mitigation not
			advised
Local Significance	Grade 3B	High significance	Mitigation (part of
(LS)			site should be
			retained)
Generally Protected	-	High/medium	Mitigation before
A (GP.A)		significance	destruction
Generally Protected	-	Medium	Recording before
B (GP.B)		significance	destruction
Generally Protected	-	Low significance	Destruction
C (GP.C)			

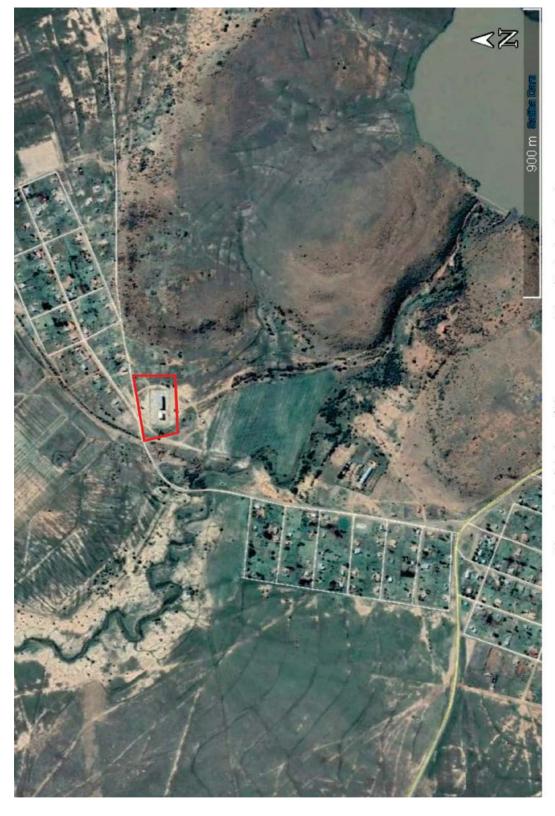


Figure 1. Aerial view of the area around the site (red polygon).



Figure 2. Aerial view of the proposed footprint.

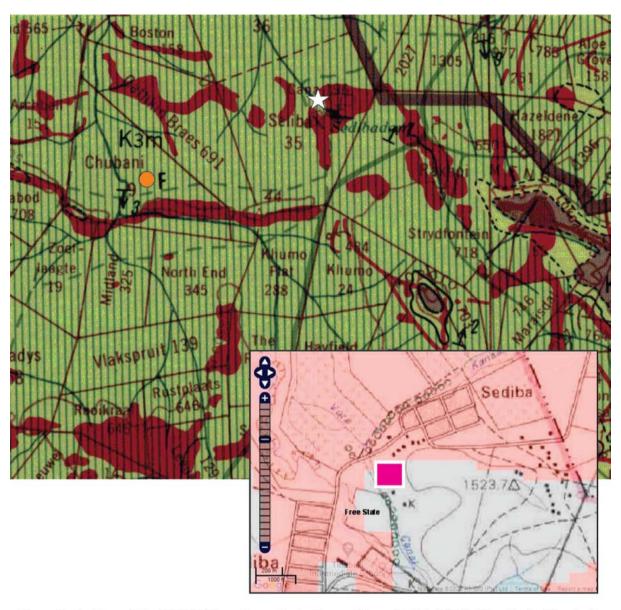


Figure 3. Portion of the 1:250 000 scale geological map Bloemfontein 2926. The site (white star) is situated within the Beaufort Group, Adelaide Subgroup (Karoo Supergroup, green areas) and on top of weather-resistant Jurassic dolerites (red areas and grey areas on SAHRIS palaeosensitivity map insert). Several therapsid localities are located on the farm Cubani situated east to the west (orange circle).



Figure 4. General view of the site.

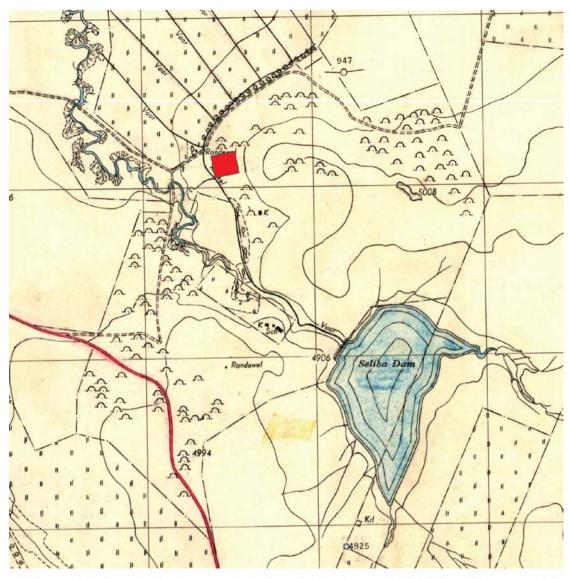


Figure 5. Informal structures or buildings indicated on 1:18 000 scale topographic map 2926 A8 Thaba Nchu dated ca. 1953. Site locality indicated by red square.

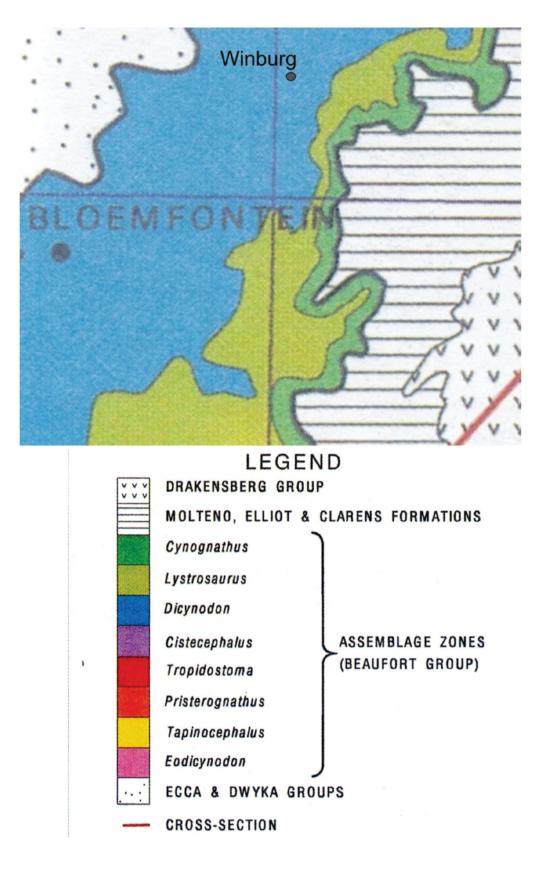


Figure 6. Geographical distribution of vertebrate biozones of the Beaufort Group around Bloemfontein (Rubidge 1995).



Figure 7. The remains of circular Barolong kraals found north of Thaba Nchu.

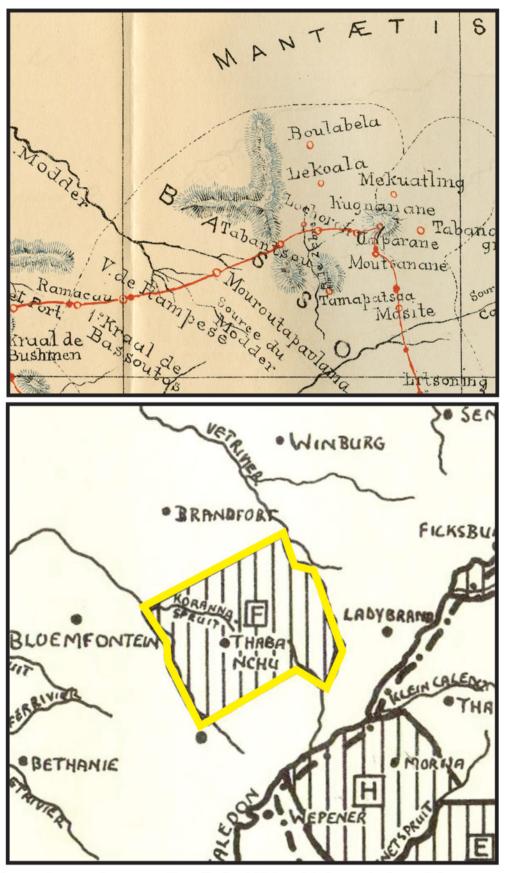


Figure 8. Map by Rev. Casalis in 1834, with boundaries of the country of the Basuto (above) and portion of historical map of designated Barolong land (below).



Figure 9. Examples of the remains of rectangular stone-walled structures located in the region.

Appendix E: Public Participation Report



ENVIRONMENTAL MANAGEMENT GROUP

PUBLIC PARTICIPATION

SEDIBA FARMER
PRODUCTION
SUPPORT UNIT

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ABBREVIATIONS

BID	Background Information Document
DWS	Department of Water and Sanitation
RI&APS	Registered Interested & Affected Parties
I&APS	Interested & Affected Parties
FPSU	Farmer Production Support Unit
PPP	Public Participation Process

1. INTRODUCTION

The Public Participation Process (PPP) forms an integral part of the rectification application process. It provides people with the opportunity to raise their issues and concerns about the proposed Sediba FPSU. A comprehensive public participation process was conducted by EMG Consultants, to ensure that all identified Interested and Affected Parties (I&APs) were informed of the proposed project and their input is able to influence decision-making process with regards to the development.

2. APPROACH AND METHODOLOGY

The Public Participation Process was conducted as per Regulation 39, 40, 41, 42, 43 & 44 of the Environmental Impact Assessment Regulations 2014 (as amended 07 April 2017) and the Public Participation Guidelines, 2017 were considered. Steps, which were taken to inform the identified I&APs and surrounding community of the proposed development included:

- Newspaper advertisement;
- On site Notice and Posters;
- ♣ Notifications, i.e. Distribution of Background Information Document (BID) to neighbouring property Owners & Stakeholders.

3. PUBLIC PARTICIPATION PROCESS CONDUCTED

The methods that were undertaken during conducting of the public participation process as discussed in detail below.

3.1. NEWSPAPER ADVERTISEMENT

The project was advertised in local newspaper, Express on the 8th of July 2020 to inform the I&APs of the Application for Environmental Authorisation for the proposed FPSU.

NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORIZATION

Notice is hereby given in terms of regulation 41 of Government Notice No. R326 under the National Environmental Management Act (Act 107 of 1998) as amended 7 April 2017, of intent to carry out the following project:

APPLICATION FOR SEDIBA FARMER PRODUCTION SUPPORT UNIT (FPSU)

NEMA: Listing Notice 1: (GN R 327, 7 April 2017)

R327	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 purpose undertaken in accordance with maintenance
		management plan.

LOCATION: Thaba 'Nchu, situated on the Farm Seliba, No 35, Mangaung Metropolitan

Municipality

PROPONENT: Department of Rural Development and Land Reform

CONSULTANT: ENVIRONMENTAL MANAGEMENT GROUP

PO BOX 37473

LANGENHOVEN PARK, 9330 TEL: 051 412 6350

CELL: 083 678 3032/0730361385 EMAIL: svr@envmgp.com/mk@envmgp

Thirty days are allowed for your comments to reach us as per NEMA (Act 107, 1998, amended 7 April 2017), GN R 326. In order to ensure that you are identified as an interested and/or affected party, please submit your name, contact information, and comments on the Draft BAR to the consultant given above.



Expres:

Seema joins big league

Teboho Setena tehoho setena@volksblad.com

Lehlohonolo Seema has Leniononolo Seema has part ways with Bloemfon-tein Celtic to join the big league as head coach of Chippa United. The Port Elizabeth based

earn announced on Monday team announced on Monday (06/07) the appointment of the Lesotho born star with immediate effect to the hot seat of head coach, replacing Rhulani Mokoena. Celtic confirmed Seema's departure on the same day, ending the seven-years relationship being part of the club's technical team that includes John Maduka

the club's technical team that includes John Maduka and Simon Gopane.

Seema, alongside Maduka and Gopane, oversaw Celtic since the departure of Steve Komphela, who quit as head coach



difficulties. The one-time captain of Phunya Sele Sele has been offered a three-year deal by Chippa. Seema joined the team during the era of former chairman Jimmy Augousti, His stint with Celtic started in 1998 as a player when he was recruited by the late coach Styles Phumo. He was part of the Celtic squad that won the SAA Supa Cup in 2005 and he helped the Bloemfontein giants to

Bloemfontein giants to regain Premier Soccer League status in 2003. Seema stayed at Celtic as a player until 2006 when he left to join opponents Orlando Pirates until 2011.

orlando Pirates until 2011.
Seema leaves Celtic ninth on the log table with 28 points from 23 matches and in the semi-finals of the Nedbank Cup. Phunya Sele Sele made history by reaching the tournament semi-final for the first time in the 12 years of the competition's existence. Seema said he will forever cherish this achievement. At Chippa, Seema joins former teammate Abram Nteo, who left Celtic earlier this year. Seema's unexpected departure leaves Maduka and Gopane in

and Gopane in

和它 Lehlohonolo during mes at Seema happier tin Teboho Seteni

Annual meeting to be held online

The Free State Cricket Union's (FSCU) annual general meeting is set to take place on 20 July.

In an effort to curb the spread of the coronavirus, this, the 128th meeting of the FSCU, will be held

online. The board is expected to expand from seven to nine

expand from seven to nine members. The previous annual general meeting, held on 22 July last year, was attended by the affiliated members.

O IS

intent to carry out the following project: Managment Plan LOCATION: Thaba Nichu, situated on the Farm Seliba, No 35, Managaung Metro-politan Municipality PROPONENT: Department of Rural Development and Land Reform

CONSULTANT:

MANAGEMENT GROUP O BOX 37473 LANGENHOVEN PARK, 9330 TEL: 051 412 6350

CELL: 083 678 3032

E-MAIL: svr@envmgp.co

Classifieds NOTICE Notice is hereby given in S OLX Notice is hereby given in terms of regulation 41 of Government Notice No. R326 under the National Environmental Manageme Act (Act 107 of 1998) as amended 7 April 2017, of intent to carry out the following molecti-

GENERAL

COMMUNITY

tact Magda de Beer at Engo Adoptions 051 522 6914/ 082 202 4306

LOANS

A BRIDGING LOAN: WAITING FOR PENSION/ PACKAGE (LUMP SUM) PAY-OUTS?

SMS OR SEND PLEASE CALL ME! 082 301 7856/ Call: 0860 018 025

LEGAL & TENDERS

LOST DO CU MENTS

FORM JJJ FORM JJJ

Notice is hereby given in terms of Regulation 68 of the Deeds Registries Act, 1997, of the intention to apply for the Saue of a certified copy of Deed of Transfer 37001a/2005 passed by Beverley-Ann Schuttb, Identity No. 671229 9028 68 9, Married out of community of property in respect of certain Erf 6 Japars-fontein, District Fauresmith, Province Free State and Erf 43 Japars-fontein, District Fauresmith, District Fauresmith, Province Free State and Erf 43 Japars-fontein, District Fauresmith, Province Free State and Erf 43 Japars-fontein, District Fauresmith, Province Free State and Erf 43 Japars-fontein, District Fauresmith, Province Free State, which has been lost or destroyed. All interested person:

aving objection to the issue naving operation to the issue of such copy are hereby required to iodge the same in writing with the Registrar of Deeds at BLOEMFONTEIN within two weeks from the date of the publication of this netice.

this notice.
Dated at BLOEMFONTEIN
this 2nd day of JULY 2020,
MCINTYRE VAN DER POST
INC – LIEZL VAN ZYL,
Address: 12 BARNES
STREET, WESTDENE, BLOEMFONTEIN E -mail address: zi@mcintyre.co.za Contact number: 051 505 0200

Sentim City Compan & Sentiness College (Play) Ltd Reg. No. 1995/01 2229/07 is regished with the Separate of Higher Education and Training as a printle higher administration under the Higher Education Act, 1907 (Act No. 1917), Registration Confident So. 2003/1907/07.



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JOHN WILLIAM'S MOTORS MULTI-FRANCHISE-DEALERSHIP Cor. Zastron Street and Wes Burger Street Bloemfontein Tel 051 00 111 22 SPECIALS • SPECIALS • SPECIAL Giulietta 1.4 Super 125kW TCT 170HP Jeep Cherokee 3.2. AT 4.X4 Traihawk ZA Jeep Cherokee 3.2. AT FWD Limited ZA Jeep Grand Cherokee 3.6L V6 Summit Jeep Ronegade 1.6 E-Tonque Longitude 2 Panda Series 2 Lourge 18 000 24 000 13 803 97 000 48 592 23 689 EDES BENZ Morcedes Br JEDES BENZ Mercedes Benz A220 CDI BE Mercedes Benz A25 AMG 4Matic Mercedes Benz B200 BE A/T Mercedes Benz C200 Cdi Mercedes Benz C200 CA Mercedes Benz C200 CDI B Aventgarde 92 070 111 239 63 000 89 000 69 000 1 37 005 1 00 005 299 900 369 900 149 900 249 900 299 000 179 900 329 900 299 700 OTHER MANUFACTURERS 2015 Aucli A3 Sporthands 1.4 flai 2013 Aucli A7 Sporthands 3.0 FSI 2016 Aucli A57 Sporthands 3.0 FSI 2016 Aucli SC5 3.0 Blich Quantifor 2015 Niesan Micra 1.2 Visia + Auclio 5dr (d8 6v) 2014 Phyrudat Clo IV 900T Express 2014 Toyotta Corolla 1.3 Profession 2014 Toyotta Corolla 1.3 Profession 2018 Toyotta Vivira 1.5 Sport 72 505 69 505 163 005 91 000 105 000 82 505 80 005 47 500 1 99 700 2 99 700 3 79 900 4 39 900 95 000 1 54 200 MTSLESHI 2015 ASX 2.0 Litre GL - My15 2019 Missubish Triton 2.4 GLX D/C 4x4 A/T - My19 2010 Missubish Triton 3.2 DI-DC DCab 4X4 68 500 12 100 169 000 500 500 000 000 RAT, ALFA, JEEP, DODGE, CHRYSLER 2009 Alfa 159 1.9 JTS High 2018 Flat Tipo Hatchback 1.4 HB Pop 2018 Toyota Yaris 1.5 Sport 2018 W Amarok 3.0 TDI DICAB HILINE PLUS 4MOTION DSG 2019 W T6 Caravelle 2.0 BiTDI HALINE 4MOTION DSG 165 000 79 900 179 900 Tel: 051 00 111 22 / www.johnwilliams.co.za " Get more than you bargained for!"

3.2. SITE NOTICES

On site notices was placed on the 2nd of July 2020, to bring the proposed development to the attention of I&APs including surrounding land users.

NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORIZATION

Notice is hereby given in terms of regulation 41 of Government Notice No. R326 under the National Environmental Management Act (Act 107 of 1998) as amended 7 April 2017 of intent to carry out the following project:

APPLICATION FOR SEDIBA FARMER PRODUCTION SUPPORT UNIT

NEMA: Listing Notice 1: (GN R 327, 7 April 2017) -

R327	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 purpose undertaken in accordance with maintenance management plan.

LOCATION: Thaba 'Nchu, situated on the Farm Seliba, No 35, Mangaung Metropolitan Municipality

PROPONENT: Department of Rural Development and Land Reform

CONSULTANT: ENVIRONMENTAL MANAGEMENT GROUP

PO BOX 37473

LANGENHOVEN PARK, 9330

TEL: 051 412 6350 CELL: 083 678 3032 EMAIL: svr@envmgp.com



Thirty days are allowed for your comments to reach us as per NEMA (Act 107, 1998, amended 7 April 2017), GN R 326. In order to ensure that you are identified as an interested and/or affected party, please submit your name, contact information, and comments on the Draft BAR to the consultant given above.

3.2.1 Poster was placed in surrounding area





3.2.2 The poster was placed at



EMG CONSULTANTS September 2020







3.4 NOTIFICATION SENT TO LOCAL AUTHORITY & STAKEHOLDERS

18 August 2020

Dear Sir/Madam

Re: <u>Notice is given in terms of Government Notice No. 326 in Government Gazette No. 40772 of 7 April 2017 issued under the National Environmental Management Act 1998, (Act 107 of 1998) and The National Water Act (NWA), 1998 (Act 36 of 1998) of intent to carry out the following activity:</u>

APPLICATION FOR SEDIBA FARMER PRODUCTION SUPPORT UNIT

We have been appointed by appointed by SMEC South Africa for the Department: Rural Development and Land Reform to conduct an application for Environmental Authorisaton for the Sediba Farmer Production Support Unit (FPSU) Development near Thaba Nchu, Sediba Village in the Mangaung Metropolitan Municipality in the Free State Province.

The Draft Basic Assessment Report can be accessed by clicking on the following links: http://envmgp.com/wp-content/uploads/2020/08/Sediba-FPSU-Draft-BAR.pdf

or by visiting our website http://envmgp.com/. Go to Projects, Agriculture, SMEC – BAR, Environmental Screening, BAR, IWULA- Farmer Production Support Units Development in the Free State Province (Koffiefontein; Odendaalsrus; Sediba; Ficksburg; Kroonstad)- **Department of Rural Development and Land Reform, Free State.** The Draft Bar can be downloaded from there.

Thirty days for comments to reach us are allowed per NEMA (Act 107, 1998, amended 7 April 2017), GN R 326, commencing on the date of circulating of the Draf BAR. Your comments on the project will be appreciated.

Should you have any project related queries, or difficulty downloading the Report please do not hesitate to contact the undersigned

Sincerely

S.E. van Rooyen

Mayor

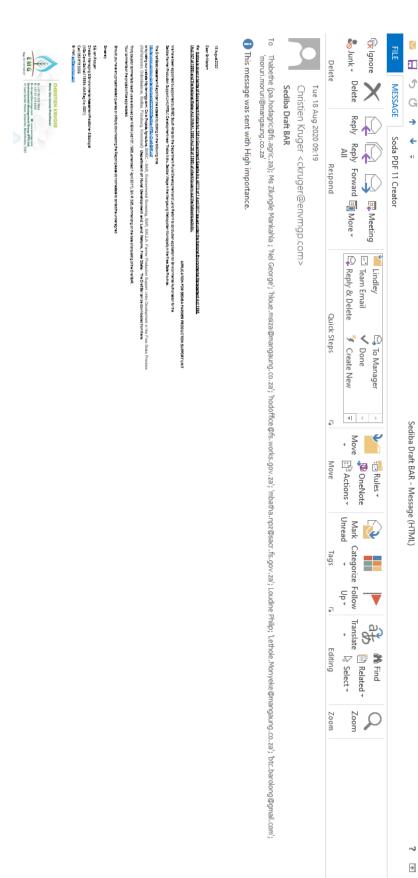
Director Managing & Environmental Assessment Practitioner & Ecologist

(MSc. Cand.Sci.Nat.116554; IAIA Reg No. 5901)

EMG CONSULTANTS September 2020

Cell: 083 678 3032

E- mail: svr@envmgp.com

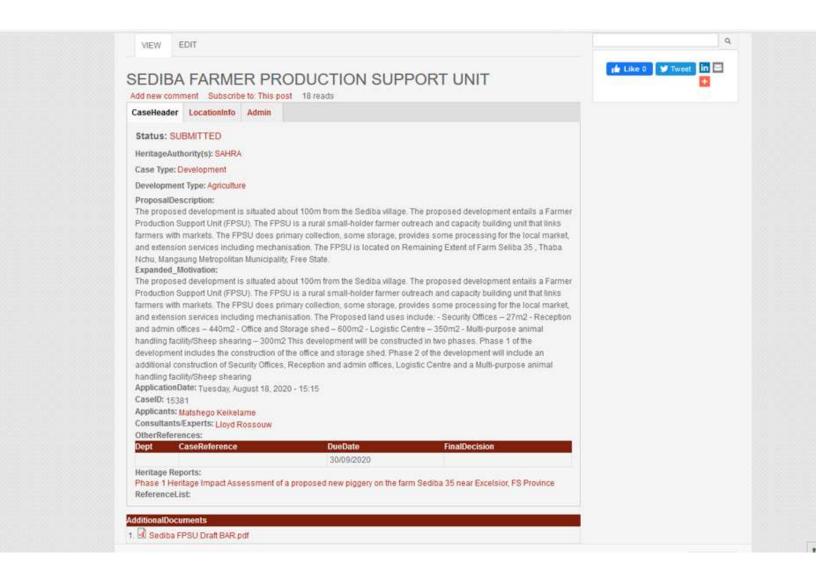


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EMG CONSULTANTS September 2020



3.6 LIST OF I&AP's

List of I&AP's				
Department/ Organisation	Contact Person	E-Mail Address	Address	Contact Nr
Department of Agriculture and Rural Development	Mr Thabethe	pa.hodagric@fs.agric.za schultzjg@gmail.com	Gielie Joubert St, Glen, BFN, 9360	051 861 8509
Department of Water & Sanitation	Mr G Nel	nelg@dws.gov.za	Private Bag 528 BLOEMFONTEIN 9300	051 405 9000
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EMG CONSULTANTS September 2020

3.7 RESPONSES RECEIVED FROM I&APS

No comments were received from the I&AP's.

4. CONCLUSION

It is concluded that the methods incorporated in the public participation process to inform the surrounding landowners, users, organs of state and identified government authorities was adequate. All the identified I&APs were given with an opportunity to give input regarding the proposed construction and no objections were received.

Appendix F: Impact Assessment



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Specialists in Environmental Management Integrating Industry and Infrastructure with the Environment

Environmental Impact Assessment

SEDIBA FARMER PRODUCTION SUPPORT UNIT





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1. Assessment Methodology

The environmental significance assessment methodology is based on the following determination:

Environmental Significance = Overall Consequence x Overall Likelihood.

1.1. Determination of Consequence

Consequence analysis is a mixture of quantitative and qualitative information and the outcome can be positive or negative. Several factors can be used to determine consequence. For the purpose of determining the environmental significance in terms of consequence, the following factors were chosen: Severity/Intensity, Duration and Extent/Spatial Scale. Each factor is assigned a rating of 1 to 5, as described in the tables below.

Determination of Severity

Severity relates to the nature of the event, aspect or impact to the environment and describes how severe the aspects impact on the biophysical and socio-economic environment (Table 1).

Table 1: Rating of severity

Type of criteria	Rating				
Type of Cifteria	1	2	3	4	5
Quantitative	0-20%	21-40%	41-60%	61-80%	81-100%
Qualitative	Insignificant / Non-harmful	Small / Potentially harmful	Significant / Harmful	Great / Very harmful	Disastrous Extremely harmful
Social/ Community response	Acceptable / I&AP satisfied	Slightly tolerable / Possible objections	Intolerable/ Sporadic complaints	Unacceptable / Widespread complaints	Totally unacceptable / Possible legal action
Irreversibility	Very low cost to mitigate/ High potential to mitigate impacts to level of insignificance / Easily reversible	Low cost to mitigate	Substantial cost to mitigate / Potential to mitigate impacts / Potential to reverse impact	High cost to mitigate	Prohibitive cost to mitigate / Little or no mechanism to mitigate impact Irreversible
Biophysical (Air quality, water quantity and quality, waste production, fauna and flora)	Insignificant change / deterioration or disturbance	Medium change / deterioration or disturbance	Significant change / deterioration or disturbance	Very significant change / deterioration or disturbance	Disastrous change / deterioration or disturbance

<u>Determination of Duration</u>

Duration refers to the amount of time that the environment will be affected by the event, risk or impact, if no intervention e.g. remedial action takes place (Table 2).

Table 2: Rating of Duration

Rating	Description
1: Low	1 Month
2: Low-Medium	1 – 3 Months
3: Medium	More than 3 Months
4: Medium-High	5 – 10 Years
5: High	More than 10 Years

Determination of Extent/Spatial Scale

Extent refers to the spatial influence of an impact, be it contained to the immediate surroundings (site), extending to the surrounding area, regional (will have an impact on the region), national (will have an impact on a national scale) or international (impact across international borders) (Table 3).

Table 3: Rating of Extent / Spatial Scale

Rating	Description
1: Low	Immediate, fully contained area (site)
2: Low-Medium	Surrounding Area
3: Medium	Regional
4: Medium-High	National
5: High	International

<u>Determination of Overall Consequence</u>

Overall consequence is determined by adding the factors determined above and summarised below, and then dividing the sum by 3 (Table 4).

Table 4: Example of calculating Overall Consequence

Consequence	Rating
Severity	Example 4
Duration	Example 2
Extent	Example 4
SUBTOTAL	Example 10
TOTAL CONSEQUENCE:(Subtotal divided by 3(Severity, Duration, Extent))	Example 3.3

1.2. Determination of Likelihood

The determination of likelihood is a combination of Frequency and Probability. Each factor is assigned a rating of 1 to 5 (Tables 5 and 6).

Determination of Frequency

Frequency refers to how often the specific activity, related to the event, aspect or impact, is undertaken (Table 5).

Table 5: Rating of frequency

Rating	Description
1: Low	Once a year / once during construction
2: Low-Medium	Once / more in 6 Months
3: Medium	Once / more a Month
4: Medium-High	Once / more a Week
5: High	Daily

Determination of Probability

Probability refers to how often the activity/event or aspect has an impact on the environment (Table 6).

Table 6: Rating of probability

Rating	Description
1: Low	Almost never / almost impossible
2: Low-Medium	Very seldom / highly unlikely
3: Medium	Infrequent / unlikely / seldom
4: Medium-High	Often / regularly / likely / possible
5: High	Daily / highly likely / definitely

Overall Likelihood

Overall likelihood is calculated by adding the factors determined above and summarised below, and then dividing the sum by 2 (Table 7).

Table 7: Example of calculating the overall likelihood

Likelihood	Rating
Frequency	Example 4
Probability	Example 2
SUBTOTAL	Example 6
TOTAL LIKELIHOOD (Subtotal divided by 2 (Frequency, Probability))	Example 3

1.3. Determination of Overall Environmental Significance

The multiplication of overall consequence with overall likelihood will provide the environmental significance, which is a number that will then fall into a range of LOW, LOW-MEDIUM, MEDIUM, MEDIUM-HIGH or HIGH(Table 8).

Table 8: Determination of overall environmental significance

Significance or Risk	Low	Low- Medium	Medium	Medium-High	High
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Overall Consequence X Overall Likelihood	1 - 4.9	5 - 9.9	10 - 14.9	15 – 19.9	20 - 25
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Qualitative description or magnitude of Environmental Significance

This description is qualitative and is an indication of the nature or magnitude of the Environmental Significance. It also guides the prioritisations and decision-making process associated with this event, aspect or impact (Table 9).

Table 9: Description of the environmental significance and the related action required.

Significance	Low	Low-Medium	Medium	Medium-High	High
Impact Magnitude	Impact is of very low order and therefore likely to have very little real effect. Acceptable.	Impact is of low order and therefore likely to have little real effect. Acceptable.	Impact is real, and potentially substantial in relation to other impacts. Can pose a risk to the company	Impact is real and substantial in relation to other impacts. Pose a risk to the company and environment. Unacceptable	Impact is of the highest order possible. Unacceptable. Fatal flaw.
Action Required	Maintain current management measures. Where possible improve.	Maintain current management measures. Implement monitoring and evaluate to determine potential increase in risk. Where possible improve	Implement monitoring. Investigate mitigation measures and improve management measures to reduce risk, where possible.	Improve management measures to reduce risk.	Implement significant mitigation measures or implement alternatives.

2. Impact Assessment

2.1. Flora and Fauna

Flora refers to the vegetation found in and around the area that will be assessed. This includes all species of vegetation from protected and indigenous species to alien and exotic plant life. Fauna refers to the animal life, inclusive of birds, mammals, invertebrates and reptiles found in or around the site being assessed. The fauna assessment also includes locating preferred habitants of protected/Endangered fauna species.

1. Clearand	e of Vege	etation						
Impact	Clearance	of vegetation	1					
Description of impact		will be clea to negative e			ing of construc	ction camp and	construction (of the FPSU. This
Construction	al Phase							
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	3	2	1	2	3	2	2,5	5
Mitigation	• K re • T ve	eep vegetati emoval aroun he constructi eld.	on removand or within on area mube stockp	the construction a ust be demarcated	and only remo rea. I to prevent mo	ve what is req	ate property an	to no vegetation d adjacent natural nust be used for
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	2	2	1	1.6	1	2	1.5	2.4
Operational P	hase							
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	2	3	1	2	3	2	2,5	5
Mitigation				onment and ensures vegetation or pro			nent Plan is ad	hered to.
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	1	2	1	1,3	2	2	2	2,7
Cumulative Impact	A major of developme		npact on t	the clearance of	vegetation has	s already occu	urred in the f	irst phase of this
Additional Notes:	activities w	ill take place	within gra		ate land. The a	reas outside the	e proposed cor	f the construction nstruction area will of vegetation.

The impact on clearance of vegetation will be **LOW-MODERATE** without mitigation and **LOW** when mitigation measures are applied. This risk assessment applies for both construction and operational phases and is described as having a low order impact likely to have little to real effect. It is however necessary to implement monitoring and evaluation procedures to determine the potential of increase in risk.

Impact	Aggidantal	or intentions	Logueina	of yold fires				
Description of impact	Machinery	or intentiona and human I piece of veg	activity m		ire risk levels	causing dry veg	etation to cato	ch fire and burn a
Construction	al Phase							
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	5	1	4	3,3	1	1	1	3,3
Mitigation	• C • C m • A	construction neasure taker Fire Manage	vorkers wil activities to to prever ement Plar	nt run away veld fi n must be present	at or an oper res. on site	n flame should		and appropriate
				•				
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
After Mitigation:	Severity 4	Duration 1	Extent 4	3	Frequency 1	Probability 1	Likelihood 1	Significance 3,0
	4			'		Probability 1		
Mitigation:	4			'		Probability 1 Probability		
Mitigation: Operational I Before Mitigation:	4 Phase	1 Duration	4	3	1	1	1	3,0
Mitigation: Operational I Before Mitigation: Mitigation	4 Phase Severity NO IMPAC	Duration	4 Extent	3 Consequence	1 Frequency	1 Probability	1 Likelihood	3,0 Significance
Mitigation: Operational I Before Mitigation:	4 Phase Severity	Duration Duration	4	3	1	1	1	3,0
Mitigation: Operational I Before Mitigation: Mitigation After	4 Phase Severity NO IMPAC	Duration Duration	4 Extent	3 Consequence	1 Frequency	1 Probability	1 Likelihood	3,0 Significance

Veld fires will only have an impact during the constructional phase and is rated according to the risk matrix of having a LOW impact. Although the assessed risk is low the threat or severity of the impact is high and can cause large scale destruction if this risk is not managed and monitored regularly.

3. Unautho	rised vehi	cle moven	nent					
Impact	Trampling	of pristine or	undisturb	ed grassland- and	vegetation.			
Description of impact	vegetation	can be des	troyed. Tl	ehicles move outs nis impact will be tine grasslands.				•
Construction	al Phase							
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	3	2	1	2	5	4	4,5	9,0
Mitigation	• V	ehicles must	remain wi	thin demarcated c	construction foc	tprint.		
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	1	2	1	1,3	4	2	3	4,0
Operational F	hase		<u> </u>	,	!			,
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	3	2	2	2,3	2	2	2	4,7
Mitigation			•	isting gravel roads	• •	aintenance activ	vities.	
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	1	2	1	1,3	2	2	2	2,7
	•		<u>'</u>	,		<u>l</u>		,
Cumulative Impact				occurred and on f the private land.	private land w	ere small single	e gravel pathw	ays have been
Additional Notes:				ve a great influence given to areas th			occur within ex	isting degraded

Unauthorised vehicle movements and the subsequent damaging of vegetation outside the construction boundaries is rated to have a **LOW-MODERATE** impact during the construction phase and a **LOW** impact during the operational phase. Damaging of vegetation is rated higher during the construction phase as most of the heavy vehicles will be involved during this phase and it is of utmost importance that workers and contractors be made aware of operational boundaries. This impact should be monitored and mitigation measures applied when the impact realises.

4. Hunting				1 1 1 1							
Impact	Actively re	moving anim	ai lite throi	ugh destructive me	easures.						
Description of impact	_			enance of the FPS e animals might ta	•	e that certain s	species of anir	nals may occupy			
Construction	al Phase										
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance			
Mitigation:	3	2	2	2.33	4	1	2.5	5.8			
Mitigation	• A	 No hunting or trapping of animals to be permitted No fauna or flora should be eradicated unnecessarily and should be discussed during the monthly toolbox talks. A specialist must be consulted to identify sensitive species, highly susceptible to disturbances caused by construction. If species like this are found on the construction footprint, a search-and-relocate must be implemented for them. 									
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance			
Mitigation:	2	2	2	2	1	1	1	2,0			
Operational F	hase										
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance			
Mitigation:	2	1	2	1.67	3	1	2	3.3			
Mitigation	• D	,	nance sp	e should be reloca ecial care should ompleted.		any animals	that re-occupion	ed the site after			
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance			
Mitigation:	1	2	1	1,33	2	1	1,5	2,0			
Cumulative Impact		tive impact hat bed areas.	as already	occurred with mo	st of the area	already transfor	med resulting	is wildlife moving			

It is not foreseen that any animals might be hunted or intentionally destroyed. It is also important to keep in mind that most of the areas are in degraded areas devoid of animal life. Being said it is important to inform workers and contractors of the reality of encountering multiple species. The above-mentioned factors rate this impact as being a **LOW – MODERATE** with the risk having a low severity and a low probability of occurring.

Impact	Loss of ha	bitat and spe	cies divers	sitv.				
Description of impact		e construction		FPSU it is possi	ble that anima	al life never re	turns, especia	ally around the
Construction	al Phase							
Before Mitigation:	Severity 3	Duration 5	Extent 2	Consequence 5	Frequency 3	Probability 2	Likelihood 2,5	Significance
Mitigation	• Li • P • C • C	imit the amou roper rehabili onsult an eco onstruction for onstruction vootprint of the	int of consitation of cologist with cotprint to rehicles we proposed	truction sites that construction sites. In regards to sustain be demarcated as ill be restricted to development must be impleme	are worked on nable rehabilita per the constr travel only on	simultaneously ation of the distu uction phase co designated roa	urbed areas. onditions outlin adways to limit	ed the ecological
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	2	2	3	2.3	2	1	1,5	3,5
Operational F	hase							
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	NO IMPAC	CT						
	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
After Mitigation:	NO IMPAC	CT				•		
Cumulative Impact	A cumulati	ve impact ha	s already	occurred with mos	t of the area al	ready transform	ned.	
	ı							
Additional Notes:	will have a life that sti	high signific Il remains are	ance on a scares. <i>F</i>	re rated as having large scale. This as with vegetation ition and support r	is due to the a , special care s	irea already be should be given	ing degraded a	and any anima

The risk of permanent loss of animal life is rated to be **HIGH** without mitigation and **LOW** with mitigation only during the construction phase. Activities during the operational phase are minor and will cause no impact to the loss of animal life. The risk matrix describes this impact as being real and substantial in relation to other impacts. It is crucial that all mitigation measures be implemented to counter act the effects of the construction phase and the impact it will have on animal life.

	Construction	nal Phase	Operational I	Phase	Total Before Mitigation	Total After Mitigation
Impacts	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation		
Clearance of Vegetation	5	2.4	5,8	2,7	5.4	2.55
2. Land transformation – Veldfire	3,3	3,0	NO IMPACT	NO IMPACT	1,65	1.5
3. Unauthorised vehicle movement	9,0	4,0	4,7	2,7	6.85	3,3
4. Hunting and gathering of Fauna	5,8	2,0	3,33	2,0	4,57	2,0
5. Loss of habitat and species diversity	12.5	3,5	NO IMPACT	NO IMPACT	6.25	1,75
					4.9	2.22

Although there are potentially significant individual impacts that can occur, it is foreseen that no real damage will occur during the construction of the FPSU. For the impacts that the construction of the FPSU will have on the fauna and flora, the risk matrix rates the impact at a **LOW-MODERATE** score before mitigation and a **LOW** after mitigation has been implemented.

2.2. <u>Heritage</u>

Heritage involves culturally significant finds including, but not limited to fossils, artefacts and certain culturally relevant infrastructure. These items will be identified by a Heritage Specialist throughout the construction phase of this project.

1. Artefacts	and Foss	sils								
Impact	Damaging	any artefacts	or fossils							
Description of impact	Possible a	rchaeological	and/or his	torical sites, featu	res or artefacts	that could be f	ound during sit	e clearing.		
Construction	al Phase									
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance		
Mitigation:	3	2	1	2	3	2	2,5	5		
	In the ever	Identification and an archaeological artefacts are found during the construction phase, a Chance Find rocedure should be followed. The key steps in this process would be as follows:								
Mitigation	 TI A S th S If 	he area will be completed n archaeologi hould it be a le HIA or not. AHRA's APM	e demarca st will be o minor issu Dependin Unit will b ecessary	ological or historical ted in order to precontacted immediate, the archaeology on the nature of the notified permit will be applead.	vent any furthe tely to provide ist will decide the find, it may	advice on the r advice on the r on future action include a site	ntil an investiga matter n, which could visit	tion has been include adapting		
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance		
Mitigation:	2	1	1	1,33	2	1	1.5	2		
Operational F	Phase									
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance		
Mitigation:	NO IMPAC	T								
Mitigation			r	T	T	T	1			
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance		
Mitigation:	NO IMPAC	Т								
Cumulative Impact	No cumula	tive impacts a	are forese	en						
Additional Notes	throughout	the lifetime	of the pro	occur during the ject and special octing of a specialis	care needs to					

Whilst clearing vegetation for the construction of the proposed FPSU, it is possible that archaeological and/or historical sites, features or artefacts could be found. In the event that this happens, the Chance Find Procedure should be followed. The abovementioned factors score the impact before mitigation at a **LOW-MEDIUM** risk and **LOW** after mitigation has been applied.

Heritage Impac	Heritage Impacts Constructional Phase		Operational Ph	ase	Total Before Mitigation	Total After Mitigation	
Impacts	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation			
1. Artefacts and Fossils and historical features	10,5	3,3	NO IMPACT	NO IMPACT	10,5	3,3	
					9,8	3,0	

The proposed footprint is located on previously developed land surrounded by the remains of old rectangular kraals most likely linked to historical residential occupation. These structures will not be affected by the proposed development. The abovementioned factors, according to the risk matrix, score an overall **LOW-MEDIUM** impact before mitigation and **LOW** after mitigation.

2.3. Water Resources

Water resources include every aspect of water including surface and ground water, as well as assessments on their quality and quantity.

Deteriorati	on of surface	water (po	nds, rivers and dan	ns) quality.			
During the FPSU and petroleum has the po	construction lusing hazar products whossibility to co	phase, sudous mate dous mate ich can en entaminate	urface water resour erial. It is also very d up in surface wa water resources, b	ces may becon likely that heav ter resources. T	y construction v he operational p	vehicles may lea chase during m	ak oil and other aintenance also
al Phase							
Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
2	1	1	1,3	2	1	1.5	1,95
• It a • .	is recomme reas such as	nded to us the existin	g irrigation concret	e canal within cl	ose proximity of	the area	near sensitive
Severity	Duration	Extent		1.7			Significance
1	4	1	4	1			4.5
1 Phase	1	1	1	1	2	1.5	1.5
1 Phase Severity				1			
1 Phase Severity	Duration 2	Extent 2	Consequence 1.6	Frequency 1	Probability 2	Likelihood 1.5	1.5 Significance 2.6
Severity 1 • A • A	Duration 2 ny maintenar Il spillages m	Extent 2 nce taking ust be clea	Consequence	Frequency 1 should have a sa site.	Probability 2 pillage treatmen	Likelihood 1.5	Significance 2.6
Severity 1 • A • A	Duration 2 ny maintenar Il spillages m	Extent 2 nce taking ust be clea	Consequence 1.6 place in the FPSU aned before leaving	Frequency 1 should have a sa site.	Probability 2 pillage treatmen	Likelihood 1.5	Significance 2.6
	During the FPSU and petroleum has the posurface was al Phase Severity 2 Severity 1 A C It a	During the construction FPSU and using hazar petroleum products wh has the possibility to co surface water near the al Phase Severity Duration 2 1 Surface conta disposed of pr All vehicles m construction at lt is recomme areas such as .	During the construction phase, so FPSU and using hazardous mate petroleum products which can en has the possibility to contaminate surface water near the proposed at al Phase Severity Duration Extent 2 1 1 Surface contamination of disposed of properly. All vehicles must be fitted construction area. It is recommended to use areas such as the existing and the surface construction.	During the construction phase, surface water resour FPSU and using hazardous material. It is also very petroleum products which can end up in surface wa has the possibility to contaminate water resources, be surface water near the proposed area. al Phase Severity Duration Extent Consequence 2 1 1 1,3 • Surface contamination of the soil through disposed of properly. • All vehicles must be fitted with a drip tray a construction area. • It is recommended to use alternative substances such as the existing irrigation concrete.	FPSU and using hazardous material. It is also very likely that heav petroleum products which can end up in surface water resources. It is also very likely that heav petroleum products which can end up in surface water resources. It is recommended to use alternative substances to those areas such as the existing irrigation concrete canal within clean.	During the construction phase, surface water resources may become contaminated FPSU and using hazardous material. It is also very likely that heavy construction of petroleum products which can end up in surface water resources. The operational phas the possibility to contaminate water resources, by using hazardous substances surface water near the proposed area. All Phase Severity Duration Extent Consequence Frequency Probability	During the construction phase, surface water resources may become contaminated as a result of FPSU and using hazardous material. It is also very likely that heavy construction vehicles may lepetroleum products which can end up in surface water resources. The operational phase during mean has the possibility to contaminate water resources, by using hazardous substances carelessly. Howeverity Duration Extent Consequence Frequency Probability Likelihood 1/2 1 1 1,3 2 1 1.5 Surface contamination of the soil through hazardous materials should be cleaned up in disposed of properly. All vehicles must be fitted with a drip tray and leaking vehicles must be repaired off site construction area. It is recommended to use alternative substances to those that are hazardous especially areas such as the existing irrigation concrete canal within close proximity of the area

Access to the existing irrigation concrete canal from clearing of vegetation in preparation for construction activities is likely to lead to disturbance. The impact on surface water can become a risk at any construction site if no mitigation is followed and the risk further exaggerated if operational methods use hazardous substances. If the correct mitigation measures are followed the risk significantly reduces and is based upon the reaction times between when the spills or contamination occurs up until when it is mitigated and properly disposed of. The construction phase has a rating of LOW before mitigation and LOW after mitigation. The rates **LOW** operational phase has а lower risk and before mitigation and LOW after mitigation.

The major risk to groundwater quality will be associated with activities on the surface such as spillages of hazardous substance, which will infiltrate over a period of time into the aquifer, which, depending on the size of the spill, can contaminate the whole aquifer. It is thus crucial to exercise mitigation measures during such incidents to avoid other groundwater users in the area being negatively affected by poor quality water. Both of the construction and operational phases show low severity if the aquifer is contaminated and low probability of occurring during this project. This equates to a construction phase score of LOW-MEDIUM before mitigation and LOW score after mitigation. The operational phase follows the same trend. If mitigation measures are applied it can be foreseen that this risk will have no impact on the aquifer's quality.

2. Hydrolo	gical – St	orm water	System					
Impact	Over abst	raction of gro	undwater					
Description of impact				r natural state and s that form prefere			n This could lea	ad to increased
Construction	al Phase							
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	2	1	1	1,3	2	1	1.5	1,95
Mitigation		Storm water system	run-off ge	enerated within th	e developmen	t should be ad	ccommodated	through formal
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	1	1	1	1	1	2	1.5	1.5
Operational F	hase				•	•	•	•
	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Before Mitigation:	1	2	2	1.6	1	2	1.5	2.6
Mitigation	• 8	Storm water s	ystem sho	ould be implement	ed			
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	1	2	1	1,3	1	1	1	1,3
Cumulative Impact		e impacts ca		st during the oper	rational phase	if flooding arou	und the area o	occurs whereby
Additional Notes:	assessme		activities a	ssed for the abst are being impleme				

This risk has not yet been incorporated into the project as abstracting borehole water will only be considered further down the line. If it is decided to augment the water supply further with borehole water a separate impact assessment will be done during a full geohydrological study.

Water Resourc	Constructional Phase		Operational Pha	ase	Total Before Mitigation	Total After Mitigation
Impacts	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation		
Surface water Quality	1.95	1.5	2.6	1,3	1.63	1.4
2. Hydrological – Storm water System	1.95	1.5	2.6	1.3	1.63	1.4
		•	•	•	1.63	1.4

The impact on surface water will be low as no abstractions are anticipated. Groundwater resources will stay unaffected as long as proper mitigation measures are followed. In total, the risk to Surface and Groundwater resources are rated to be **LOW** before mitigation and **LOW** after mitigation. The risk matrix however still advises that constant monitoring be applied and to improve where possible.

2.4. Aesthetics

This risk to the visual character of the environment will be based on a cumulative contribution of all the specialists and physical site visits done by the Environmental Assessment Practitioner.

1. Lowering	of aesth	etic value	of imme	ediate location	around FPS	SU		
Impact	Lowering a	aesthetic valu	e of the su	urrounding enviror	ment, where th	ne FPSU will be	built.	
Description of impact				and maintenance owered due to ope	•	•		etic value of the
Construction	al Phase							
Before Mitigation:	Severity 3	Duration 5	Extent 2	Consequence 3,3	Frequency 5	Probability 2	Likelihood 3,5	Significance
Mitigation	• C	esthetic impa Ince an area ection throug	ict. is complet h levelling	the number of c	ded that the ar d re-vegetating	ea be rehabilita the excavated	ted before mo	lower the overall ving on to the next
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	2	4	1	2,3	4	2	3	7,0
Operational F	hase							
Before Mitigation:	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation	to si • Ir	minimize the tanding vehice	e overall a les.	esthetics value cre	eated by open	trenches, soil h	eaps, construc	quickly as possible stion signs and still to the surrounding
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation:	2	3	1	2	2	2	2	4,0
				!				
Cumulative Impact				occurred through disturbed areas w				ds on private land
Additional Notes	None.							

Due to the extent over which the FPSU will be constructed the aesthetic risk will be increased during the construction phase. In the operational phase factors such as the visibility of the FPSU buildings that will be above ground will increase aesthetic risk.. Considering the factors above the risk to aesthetics during the construction phase is rated to be **MODERATE** before mitigation and **LOW-MODERATE** after mitigation. The operational phase will be less intrusive and will only be seen by a handful of people, scoring a **LOW-MODERATE** score before mitigation and **LOW** scores after mitigation.

2. Lowering of aesthetic value for the surrounding area.									
Impact	Constructi	Construction and permanent feature of the FPSU close to the community.							
Description of impact	hygienic o store, and	Since the FPSU will be located close to the Sediba community, vegetation clearance will take place. Poor hygienic conditions in the FPSU will also result in disease outbreaks. Rodents will be attracted to the feed store, and animal handling facility due to extensive food availability. These factors will all impact negatively on the aesthetic value.							
Construction	al Phase								
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance	
Mitigation:	3	4	2	3	4	2	3	9,0	
Mitigation		Г		ousekeeping prac	Γ	, 	T	T	
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance	
Mitigation:	2	3	1	2	2	2	2	4,0	
Operational	Phase	T			T		T	T	
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance	
Mitigation:	2	3	2	2,3	4	1	2,5	5,8	
Mitigation	 It is recommended that after the construction phase and before the operational phase, that indigenous trees be planted around the disturbed and cleared area to recover some aesthetic value for the area as well as blending the FPSU into the environment. Monitoring the occurrence of rodents and manage by means of traps Regularly inspections by the owner as well as state veterinary services Proper disposal of condemned animal mortalities to prevent distribution of diseases The premises must be fenced and provided with a gate to control access of people and animals 								
After	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance	
Mitigation:	1	2	1	1,3	3	1	2	2,7	
	A cumulative impact can occur if more infrastructure is built near the residential area as well as the remove indigenous vegetation.					the removal of			

The risk to the aesthetic value of the surrounding environment during the construction and operational phase of the FPSU are both rated to be **LOW-MEDIUM** before mitigation and **LOW** after mitigation. This impact is rated insignificant as the area that will be affected is small and with the proper mitigation measures applied will be insignificant to the aesthetic value of the surrounding environment.

	Constructional Phase		Operational Phase		Total Before Mitigation	Total After Mitigation
Impacts	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation		
1. Construction of FPSU	11,7	7,0	3,0	2,0	11,7	7,0
2. Location of FPSU	9,0	4,0	2,0	1,0	9,0	4,0
					10,3	5,5

It is foreseen that the aesthetic value of the area will only be affected on a small scale. It must be mentioned that utmost care should be taken when building the FPSU. The risk to the aesthetic value of the surrounding environment during the construction and operational phase of the FPSU are both rated to be **LOW-MEDIUM** before mitigation and **LOW** after mitigation.

2.5. Noise and Air Quality

Noise and air quality assessments are based upon what equipment will be used during a specific activity and the type of disturbance that will occur.

1. Generati	on of nois	se						
Impact	Increasing	Increasing noise levels during the construction phase and operational phase.						
Description of impact	the constr	Noise levels will increase during the construction of building structures at the FPSU (excavation) and during the construction of the animal handling facility, storage shed and offices (clearance and building infrastructure). The operational phase will also create noise as a result of agricultural activities that will take place.						
Construction	al Phase							
Before	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
Mitigation	2	4	2	2,7	4	3	3,5	9,3
Mitigation	 No loud music at any construction sites. Vehicles must be maintained in such a manner as to not cause excessive noise when operating them. Construction should take place between 8;00 and 17:00. The speed limit will be 40km/h on all roads running through and accessing the study area Equipment/ machinery to be used must comply with manufacturers specifications acceptable noise levels Maintain a complaints and grievance register and act promptly to complaints regarding noise 							
	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
	2	3	2	2,3	2	2	2	4,7
Operational F	hase			1 7-	!		<u> </u>	,
•	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
	2	5	2	3	3	3	3	9,0
Mitigation	 Ensure that the FPSU is adequately constructed to buffer noise coming from the FSPU facility. Also, maintain the FPSU in such a manner that it does not cause excessive noise. 					facility.		
	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
	2	3	1	2	2	2	2	4,0
Cumulative	No cumulative impact can be foreseen.							

Ambient noise will temporarily be impacted upon due to the movement and activities of construction vehicles. Due to the temporary nature of these activities, it is not foreseen that these impacts will significantly alter the ambient noise of the overall environment. The risk is rated **LOW-MEDIUM** for both the constructional and operational phase before mitigation and **LOW** after mitigation. It is foreseen that this risk will not have a significant effect on the environment if mitigation measures are applied.

2. Air qualit								
Impact	Dust and noxious fumes can be generated during the construction and operational phases.							
Description of impact	During the construction phase dust can be generated through heavy vehicles travelling regularly on gravel roads, excavation for trenches and construction of the FPSU. Petrochemical and exhaust emission from construction vehicle may also add to lowering of air quality. During the operational phase attention should be given to the generated odour through the remaining animal material from animal handling facility.							
Construction	al Phase		T		T		T	T
	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
	3	3	3	3 ents on unpaved ro	3	2	2,5	7,5
Mitigation	 Ensure that site drainage carries spillage of clay or coal fines away from traffic movement zones Spraying of clay or coal stockpiles if wind erosion is observed. Set up water sprayers along haul roads to dampen dust and minimise dust loading to surrounding vegetation. Speed control for all roads to limit dust generation. 					to surrounding		
	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
	1	2	2	1,7	3	2	2,5	4,2
Operational P	hase							
	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
	3	3	2	2,7	2	2	2	5,3
Mitigation	 If animal waste is immediately removed from the facilities no unpleasant smells will occur. The handling removal and disposal for animal waste products must be in terms of legal requirements and as per guidance through an approved operational Environmental Management Plan 					al requirements		
	Severity	Duration	Extent	Consequence	Frequency	Probability	Likelihood	Significance
	1	2	2	1,7	2	2	2	3,3
Cumulative Impact	Cumulative impacts can be foreseen when construction of the FPSU coincidence with the harvesting and ploughing seasons, with will contribute to the amount of dust in the air.							

Air quality will temporarily be impacted upon due to the movement and activities of construction vehicles. Due to the temporary nature of these activities, it is not foreseen that these impacts will significantly alter the air quality of the overall environment. Air quality and the risks involved will have a small to insignificant effect on the environment and people nearby. The only risk to air quality will be the cumulative impacts of excavating during windy conditions in combination with the harvesting and ploughing season on surrounding farms. The impacts for both the construction and operational phases score a **LOW-MEDIUM** rating before mitigation and **LOW** after mitigation measures have been implemented.

	Constructional Phase		Operational Phase		Total Before Mitigation	Total After Mitigation
Impacts	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation		
1. Generation of noise	9,3	4,7	9,0	4,0	9,2	4,3
2. Air quality	7,5	4,2	5,3	3,3	6,4	3,8
			•		7,8	4,0

The impacts the project development will have on the noise and air quality will be minimal and insignificant if mitigation measures are implemented. Taking all factors into consideration the risk for noise and air quality scores a **LOW-MODERATE** value before mitigation and **LOW** after mitigation.

3. Conclusion

Factors	Impact before Mitigation	Impact after Mitigation
2.1 Fauna and Flora	4.9	2.22
2.2 Heritage	9,8	3,0
2.3 Water Resources	1,63	1.4
2.4 Aesthetics	10,3	5,5
2.5 Noise and Air Quality	7,8	4,0
Overall Impact	6.9	4,2

In conclusion it is foreseen that the project will not have a significant effect on the environment as a whole and scores an impact rating of LOW-MODERATE (6.9) before mitigation and LOW (4,2) after mitigation measures. Although the general impact ratings are low, certain individual risks need to be monitored constantly as it involves the greatest risk to the project and environment. These include the risks to which is the risk of aesthetics value which involves the construction of the FPSU [10.3 (before mitigation) and 5.5 (after mitigation)] including the Heritage and Noise and Air quality when constructing the FPSU. Other than the above-mentioned individual risk, this project has no fatal flaws and considered to be of minimal impact to the environment.

The agricultural sector in South Africa plays a valuable role in ensuring the sustainable supply of food to our growing population and represents one of the main sources of revenue. As such the project plays its part in addressing issues of national concern in terms of sustainable agriculture. The activity will result in job creation, both permanent and temporary and will also aid in addressing food security.

Appendix G: Environmental Management Programme (EMPr)



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ENVIRONMENTAL MANAGEMENT PLAN:

For SEDIBA FARMER PRODUCTION SUPPORT UNIT







Report compiled by: Matshego Keikelame Reviewed by: Sampie van Rooyen

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1 DEFINITIONS

Alien Vegetation: alien vegetation is defined as undesirable plant growth which shall include, but not be limited to; all declared category 1 and 2 listed invader species as set out in the Conservation of Agricultural Resources Act (CARA) regulations. Other vegetation deemed to be alien shall be those plant species that show the potential to occupy in number, any area within the defined construction area and which are declared to be undesirable.

Aspect: Element of an organisation's activities, products or services that can interact with the environment.

Auditing: A systematic, documented, periodic and objective evaluation of how well the environmental management plan is being implemented and is performing with the aim of helping to safeguard the environment by: facilitating management control which would include meeting regulatory requirements. Results of the audit help the organisation to improve its environmental policies and management systems.

Built environment: Physical surroundings created by human activity, e.g. buildings, houses, roads, bridges and harbours.

Contamination: Polluting or making something impure.

Corrective (or remedial) action: Response required addressing an environmental problem that is in conflict with the requirements of the EMP. The need for corrective action may be determined through monitoring, audits or management review.

Degradation: The lowering of the quality of the environment through human activities, e.g. river degradation, soil degradation.

Ecology: The scientific study of the relationship between living things (animals, plants and humans) and their environment

Ecosystem: The relationship and interaction between plants, animals and the non-living environment.

Environment: environment means the surroundings within which humans exist and that could be made up of -

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

Environmental aspect: an environmental aspect is any component of a contractor's construction activity that is likely to interact with the environment.

Environmental impact: an impact or environmental impact is the change to the environment, whether desirable or undesirable, that will result from the effect of a construction activity. An impact may be the direct or indirect consequence of a construction activity.

Environmental Authorisation: an environmental authorisation is a written statement from the National Department of Environmental Affairs and Tourism, (N.DEAT) that records its approval of a planned undertaking to improve, upgrade or rehabilitate a section of road and the mitigating measures required to prevent or reduce the effects of environmental impacts during the life of a contract.

Hazardous waste: Waste, even in small amounts that can cause damage to plants, animals, their habitat and the well-being of human beings, e.g. waste from factories, detergents, pesticides, hydrocarbons, etc.

Land use: The use of land for human activities, e.g. residential, commercial, industrial use.

Mitigation: Measures designed to avoid, reduce or remedy adverse impacts

2. INTRODUCTION AND BACKGROUND

3. SCOPE

Environmental Management Group has been appointed by SMEC South Africa for the Department: Rural Development and Land Reform to conduct the Basic Assessment application of the Sediba Farmer Production Support Unit (FPSU).

This document is compiled in accordance with the Integrated Environmental Management (IEM) philosophy which aims to achieve a desirable balance between conservation and development (DEAT, 1992). IEM is a key instrument of the National Environmental Management Act [NEMA] (Act No. 107 of 1998). NEMA promotes the integrated environmental management of activities that may have a significant effect on the environment, while IEM prescribes a methodology for ensuring that environmental management principles are fully integrated into all stages of the development process. It advocates the use of several environmental management tools that are appropriate for the various levels of decision-making. One such tool is an EMP. The IEM guidelines encourage a pro-active approach to sourcing, collating and presenting information in a manner that can be interpreted at all levels. The basic principles underpinning IEM are that there be:

- informed decision-making;
- · accountability for information on which decisions are taken;
- accountability for decisions taken;
- a broad meaning given to the term environment (i.e. one that includes physical, biological, social, economic, cultural, historical and political components);
- an open, participatory approach in the planning of proposals;
- consultation with interested and affected parties;
- due consideration of alternative options:
- an attempt to mitigate negative impacts and enhance positive aspects of proposals;
- an attempt to ensure that the 'social costs' of development proposals (those borne by society, rather than the developers) be outweighed by the 'social benefits' (benefits to society as a result of the actions of the developers);
- democratic regard for individual rights and obligations;
- compliance with these principles during all stages of the planning, implementation and decommissioning of the proposals (i.e. from 'cradle to grave'); and
- the opportunity for public and specialist input in the decision-making process.

The Environmental Impact Assessment Regulations that took effect in December 2014 regulate the procedures and criteria for the submission, processing, consideration and decision on applications for environmental authorisation of listed activities.

The general principles contained within this document apply to all **PLANNING PHASE**, **CONSTRUCTION PHASE**, **and OPERATIONAL PHASE** activities with regard to the development of 3 Khai Appel boreholes and related infrastructure.

4. SITE SPECIFIC INFORMATION

The proposed project is located at Sediba Village that is approximately 35km from Thaba Nchu in the North Eastern direction. Thaba Nchu is a town which is approximately 60km east of Bloemfontein that falls under the Mangaung Metro Municipality. The study area is on a ridge and the access gate to the proposed site is from the eastern direction. The site terrain comprises a typical crest with a flat area on the north western part of the site boundary and steep slopes towards the south eastern area (See Appendix A).

5. INTERPRETATIONS

The implementation of the EMP is not an additional or "add on" requirement. The EMP is legally binding through NEMA. The proponent is to ensure that through the project tender process the EMP forms part of the Project Contract Document for the proposed development to be incorporated in line with:

- a) General project specifications; and
- b) SANS 1200 A or SANS 1200 AA, as applicable.

6. ROLE PLAYERS AND RESPONSIBILITY MATRIX

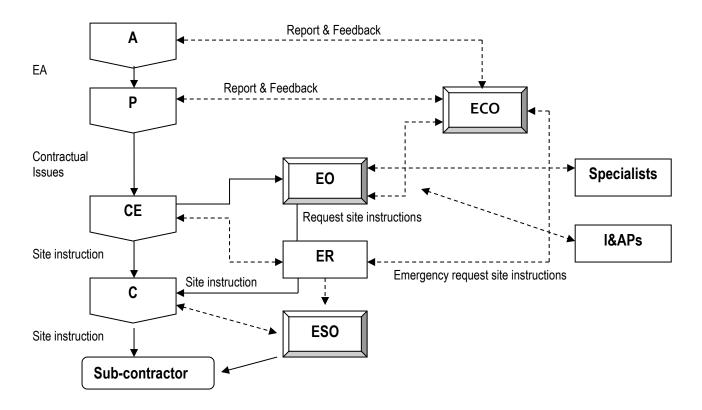
In order for the EMP to be successfully implemented, all the role players involved in the project need to cooperate. For this to happen, role players must clearly understand their roles and responsibilities in the project, must be professional, form respectful and transparent relationships, and maintain open lines of communication.

Table 1: Functions and Responsibilities of Project Team

KEY	FUNCTION	RESPONSIBILITY
P	Proponent	Proponent is ultimately accountable for ensuring compliance to the EMP. The ECO must be contracted by the Proponent (full time or part time depending on the size of the project) as an independent appointment to objectively monitor implementation of relevant environmental legislation, conditions of the EMP for the project. The Proponent is further responsible for providing and giving mandate to enable the ECO to perform responsibilities. The developer must ensure that the ECO is integrated as part of the project team.
CE	Consulting Engineer	Contracted by the developer to design and specify the project engineering aspects. Generally, the engineer runs the works contract. The CE may also fulfil the role of Project Manager on the proponent's behalf (See PM).
PM	Project Manager	The Project Manager has over-all responsibility for managing the project, contractors, and consultants and for ensuring that the environmental management requirements are met. The CE may also act as the PM. All decisions regarding environmental procedures must be approved by the PM. The PM has the authority to stop any decommissioning activity in contravention of the EMP in accordance with an agreed warning procedure.
ER	Engineers Representative	The consulting engineer's representative on site. Has the power/mandate to issue site instructions and in some instances, variation orders to the contractor, following request by the EO or ECO. The ER oversees site works, liaison with Contractor and ECO.
EO/EM	Environmental Officer / Environmental Manager	Appointed by the Consulting Engineers as their environmental representative on site. The EO is not independent but must rather act on behalf of the consulting engineers with the mandate to enforce compliance under the project contract, which must include the EMP. The EO has the directive to issue non-conformance and hazard certificates. Further, in terms of accepted industry practice the EO could issue the equivalent of a "cease works" instruction only in exceptional circumstances where serious environmental harm has been or is about to be caused i.e. in cases of extreme urgency and then only when the ER is absent. The EO must form part of the project team and be involved in all aspects of project planning that can influence environmental conditions on the site. On certain types of projects, such as linear developments (fences, pipelines, etc), the EO must also be the liaison between the contractor and landowners. The EO must attend relevant project meetings, conduct daily inspections to monitor compliance with the EMP, and be responsible for providing reports and feedback on potential environmental problems associated with the development to the project team and ECO. The EO must convey the contents of this EMP to the Contractor site team and discuss the contents in detail with the Contractor as well as undertake to conduct an induction and an environmental awareness training session prior to site handover to all

		contractors and their workforce.
		The EO must be suitably experienced with the relevant qualifications and preferably competent in construction related methods and practices.
ECO	Environmental Control Officer	An independent appointment to objectively monitor implementation of relevant environmental legislation, conditions of Environmental Authorisations (EA's), and the EMP for the project. The ECO must be on site prior to any site establishment and must endeavour to form an integral part of the project team. The ECO must be proactive and have access to specialist expertise as and when required, these include botanists, ecologists, etc. Further, the ECO must also have access to expertise such as game capture, snake catching, etc. The ECO must conduct audits on compliance to relevant environmental legislation, conditions of EA, and the EMP for the project. The size and sensitivity of the development, based on the EIA, will determine the frequency at which the ECO will be required to conduct audits. (A minimum of a monthly site inspection must be undertaken). The ECO must be the liaison between the relevant authorities and the project team. The ECO must communicate and inform the developer and consulting engineers of any changes to environmental conditions as required by relevant authoritative bodies. The ECO must ensure that the registration and updating of all relevant EMP documentation is carried out. The ECO must be suitably experienced with the relevant environmental management qualifications and preferably competent in construction related methods and practices. The ECO must handle information received from whistle blowers as confidential and must address and report these incidences to the relevant Authority as soon as possible. On small projects, where no EO is appointed, the ECO must convey the contents of this EMP to the Contractor site team and discuss the contents in detail with the Contractor as well as undertake to conduct an induction and an environmental awareness training session prior to site handover to all contractors and their workforce.
С	Contractor	The principle contractor, hereafter known as the 'Contractor', is responsible for implementation and compliance with the requirements of the EMP and conditions of the EA's, contract and relevant environmental legislation. The Contractor must ensure that all sub-contractors have a copy of and are fully aware of the content and requirements of this EMP. The contractor is required, where specified, to provide Method Statements setting out in detail how the management actions contained in the EMP will be implemented.
ESO	Environmental Site Officer	The ESO is employed by the Contractor as his/her environmental representative to monitor, review and verify compliance with the EMP by the contractor. This is not an independent appointment; rather the ESO must be a respected member of the contractor's management team. Dependent on the size of the development the ESO must be on site one week prior to the commencement of construction. The ESO must ensure that he/she is involved at all phases of the constriction (from site clearance to rehabilitation).
A	Lead Authority	The authorities are the relevant environmental department that has issued the Environmental Authorisation. The authorities are responsible for ensuring that the monitoring of the EMP and other authorisation documentation is carried out, this will be achieved by reviewing audit reports submitted by the ECO and conducting regular site visits.
OA	Other Authorities	Other authorities are those that may be involved in the approval process of an EMP. Their involvement may include reviewing EMP's to ensure the accuracy of the information relevant to their specific mandate. Other authorities may be involved in the development, review or implementation of an EMP. For example, if a specific development requires a water use licence for the relevant national authority then that authority should review and comment on the content of the particular section pertaining to that mandate.
EAP	Environmental Assessment Practitioner	The definition of an environmental assessment practitioner in Section 1 of NEMA is "the individual responsible for the planning, management and coordination of environmental impact assessments, strategic environmental assessments, environmental management plans or any other appropriate environmental instruments introduced through regulations".

7. RECOMMENDED FORMAL ENVIRONMENTAL COMMUNICATION CHANNELS



8. OBJECTIVES OF THE EMP

The specific objectives of this EMP are to:

- To provide explicit operational guidelines and environmental monitoring requirements during the construction phases so that activities are done in environmentally responsible and sustainable manner.
- To benefit the host communities, minimise the impacts on the environment and to ensure the health and safety of the community by creating a development that eliminates unacceptable health hazards and ensures public and animal safety.
- To enable the Department: Rural Development and Land Reform and its contractors to use resources efficiently and effectively during the project lifecycle in order to reduce wastage and thereby reduce associated negative environmental impacts. In addition, the aim is also to handle waste streams responsibly and apply the 'reduce, re-use and recycle' principle, wherever possible
- To leave areas disturbed by construction in a rehabilitated, stable, non-polluting and tidy condition.

9. ACTIVITIES COVERED BY THE EMP

9.1 PLANNING STAGE

The project planning stage consists of pumphouse structure designing and water pipeline layout, surveying and ensuring that all plans and required contracts, permits/licenses and agreements are in place.

9.2 CONSTRUCTION PHASE

The construction phase will start after the relevant authorizations are granted. The construction phase involves earthwork, structure development, service provision and finishing. The construction phase will start after the relevant authorizations are granted. This phase includes:

- Establishment of construction camp and equipment yards
- Transportation of construction material and other resource inputs.
- Use of heavy construction equipment on site.
- Storage of input materials and disposal of waste generated
- Construction of building structures
- Excavation of trenches for the construction of the pipeline
- Rehabilitation of the disturbed areas through:
- Demolition/Removal of any unwanted construction fences and infrastructure
- Top-soiling and re-vegetation of areas disturbed by construction

10. IDENTIFICATION OF ENVIRONMENTAL ASPECTS AND IMPACTS

The contractor shall identify likely aspects before commencing with any construction activity. Examples of environment aspects include:

- waste generation
- storm water discharge
- chemical use operations
- energy use operations
- water use operations
- use of natural resources
- noise generation

Thereafter the contractor shall programme his work in such a way that each cause and effect of a construction activity is also identified and the activity planned so as to prevent any impacts from happening. If prevention is not practicable, or in the event of mishap or misapplication, the contractor shall provide plans and measures for the engineer's approval, which will limit and contain the magnitude, duration and intensity of the impact. The contractor shall demonstrate that he is capable of carrying out any repair and reinstatement of the damaged environment.

Listed below are some environmental impacts that could adversely alter an aspect of the environment through usual construction activities:

- Pollution of atmosphere, soil or water
- Destruction or removal of fauna and flora and effect on biological diversity
- Deformation of the landscape
- Soil erosion
- Effect on the built environment

11. LEGAL REQUIREMENTS

(a) General

Construction activities will be according to the best industry practices, as identified in the project documents. This EMP, which forms an integral part of the contract documents, informs the contractor as to his duties in the fulfilment of the project objectives, with particular reference to the prevention and mitigation of environmental impacts caused by Construction activities associated with the project. The contractor should note that obligations imposed by the EMP are legally binding in terms of environmental statutory legislation and in terms of the additional conditions to the general conditions of contract that pertain to this project. In the event that any rights and obligations contained in this document contradict those specified in the standard or project specifications then the latter shall prevail.

(b) Statutory and other applicable legislation

The contractor is deemed to have made himself conversant with all legislation pertaining to the environment, including provincial and local government ordinances, which may be applicable to the contract.

12. ADMINISTRATION OF ENVIRONMENTAL OBLIGATIONS

(a) Appointment of an Environmental Site Officer (ESO)

For the purposes of implementing the conditions contained herein, the contractor shall submit to the engineer for approval the appointment of a nominated representative of the contractor as the ESO for the contract. The request shall be given, in writing, at least fourteen days before the start of any work clearly setting out reasons for the nomination, and with sufficient detail to enable the engineer to make a decision. The engineer will, within seven days of receiving the request, approve, reject or call for more information on the nomination. Once a nominated representative of the contractor has been approved he/she shall be the ESO and shall be the responsible person for ensuring that the provisions of the EMP are complied with during the life of the contract. The engineer will be responsible for issuing instructions to the contractor where environmental considerations call for action to be taken. The ESO shall submit regular written reports to the engineer, but not less frequently than once a month.

The engineer shall have the authority to instruct the contractor to replace the ESO if, in the engineer's opinion, the appointed officer is not fulfilling his/her duties in terms of the requirements of the EMP or this specification. Such instruction will be in writing and shall clearly set out the reasons why a replacement is required.

(b) Administration

Before the contractor begins each construction activities the ESO shall give to the engineer a written statement setting out the following:

- The type of construction activity.
- Locality where the activity will take place.
- Identification of the environmental aspects and impacts that might result from the activity.
- Methodology for impact prevention for each activity or aspect.
- Methodology for impact containment for each activity or aspect.
- Emergency/disaster incident and reaction procedures.
- Treatment and continued maintenance of impacted environment.

The contractor may provide such information in advance of any or all construction activities provided that new submissions shall be given to the engineer whenever there is a change or variation to the original.

The engineer may provide comment on the methodology and procedures proposed by the ESO, but he shall not be responsible for the contractor's chosen measures of impact mitigation and emergency/disaster management systems. However, the contractor shall demonstrate at inception and at least once during the contract that the approved measures and procedures function properly.

(c) Communication procedures on site

Each of the books described below must be available in duplicate, with copies for the RE and ESA or alternatively an agreement could be reached to use a single system. These books should be available to the authorities for inspection or on request. Contractor's meeting minutes must reflect environmental queries, agreed actions and dates of eventual compliance. These minutes form part of the official environmental record.

i. Site Instruction Entries

The Site Instruction Book entries will be used for the recording of general site instructions as they relate to the works on site. It will also be used for the issuing of stop work orders for the purposes of immediately halting any particular activities of the contractor in lieu of the environmental risk that they may pose.

ii. ESA Diary Entries

The purpose of these entries will be to record the comments of the ESA as they relate to activities on the site.

13. TRAINING

The designated environmental site officer (ESO) must be conversant with all legislation pertaining to the environment applicable to this contract and must be appropriately trained in environmental management and must possess the skills necessary to impart environmental management skills to all personnel involved in the contract.

The contractor shall ensure that adequate environmental training takes place. All employees shall have been given an induction presentation on environmental awareness. Where possible, the presentation needs to be conducted in the language of the employees. The environmental training should, as a minimum, include the following:

- The importance of conformance with all environmental policies;
- The environmental impacts, actual or potential, of their work activities;
- The environmental benefits of improved personal performance;
- Their roles and responsibilities in achieving conformance with the environmental policy and procedures and with the requirement of the Agency's environmental management systems, including emergency preparedness and response requirements;
- The potential consequences of departure from specified operating procedures;
- The mitigation measures required to be implemented when carrying out their work activities.

In the case of permanent staff, the contractor shall provide evidence that such induction courses have been presented. In the case of new staff (including contract labour) the contractor shall inform the engineer when and how he intends concluding his environmental training obligations.

14. RECORD KEEPING

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

It is recommended that photographs are taken of the site prior to, during and immediately after construction as a visual reference. These photographs should be stored with other records related to this EMP.

The day-to-day monitoring and verification that the Construction EMP is being adhered to shall be undertaken by the Contactor and the DEO. Monitoring required on a regular basis is shown in the environmental monitoring **table A**.

Table A:

ENVIRONMENTAL CONTROL CHECKLIST

No.	Requirements/Conditions	Responsibility	Comment/Mitigation measures
Genera	al Administration		
1.1	Environmental induction/ awareness training program	Contractors	
1.2	Environmental Incidents and Accidents Register		
1.3	Environmental Complaints Register/IAP register		
1.4	Environmental Emergency Procedures		
1.5	Fire prevention and management plan		
1.6	Hazardous waste remover/disposal facility		
	Organogram of contractor's management structure		
1.8	Agreement with toilet service provider		
	Management		
	Suitable sanitation facilities to be provided	Contractors	
2.2	Suitable waste receptacles provided		
2.3	Prohibition of littering		
2.4	General waste disposal		
2.5	Suitable storage of hazardous waste		
2.6	Vehicles/Plant serviced within designated areas on site		
2.7	Cement mixed in allocated areas		
2.8	Chemical spills contained and cleared up		
Land C	Clearance and Excavations		
3.1	Limit removal of vegetation to require areas only	Contractors	
	Workers to work in construction footprint only		
3.3	No gathering of plants or poaching of animals		
3.4	Top soil removal and storage		

0 =	In	¬	
	Discovery of archeological and cultural sites/graves		
3.6	Trenches and excavations		
3.7	Rehabilitation of disturbed areas		
Water	Related Issues		
4.1	Sources of water/ water abstraction		
4.2	River crossings		
4.3	Appropriate management of storm water runoff onsite		
4.4	No polluted water discharges		
4.5	Removal of contaminated soils		
4.6	Water conservation techniques.		
4.7	Avoid swimming and personal ablutions in watercourses		
4.8	Prevention of pollution entering water course		
Social	and Cultural		
5.1	Prevent casual access to construction areas	Contractors	
5.2	No loud music at site		
5.3	Speed limit on site		
5.4	Communication & compensation for damage to property		
5.5	Limit construction workers access to private property		
5.6	Provision of suitable eating areas for employees		
House	keeping and Aesthetics		
6.1	Damage to natural environment to be minimized	Contractors	
6.2	Suitable access roads and facilities		
6.3	Adequate storage facilities for materials		
6.4	Suitable facilities for hazardous materials		
6.5	Adequate housekeeping practices		
6.6	Appropriate signs displayed		
Specif	ic Issues		
7.1	Dust management on site and air quality issues	Contractors	
7.2	Equipment and Machinery maintenance		
7.3	Borrow Areas		
		-	

Rehab	Rehabilitation					
8.1	Suitable rehabilitation for excavations, trenches and vegetation	Contractors				
	clearance.					
8.2	All construction residue removed after construction					
	Scarify areas compacted by vehicle movements					
8.4	Eradication of exotic species in construction footprint					
8.5	Compliance with Environmental Specifications for rehabilitation					
Other	Other					

The contractor shall establish an internal review procedure to monitor the progress and implementation of the Construction EMP. Where necessary, and upon the recommendation of the ECO, procedures that require modification shall be changed to improve the efficiency of the Construction EMP. Any slight changes or adjustments to the Construction EMP shall be discussed with the ECO and documented. Significant modifications to the Construction EMP shall however need to be approved by Dept of Environmental Affairs before the changes or adjustments to the EMP are implemented.

The ECO shall visit and audit the site once a month to ensure that correct operational procedures are being implemented and that the Contractor is complying with the environmental specifications in the Construction EMP. Additional site inspections by the ECO may be needed during the initial and final stages of the project. The ECO shall address any queries to the contractor and the Department: Rural Development and Land Reform If the queries cannot be resolved at this level if necessary, the Department of Environmental Affairs shall be involved.

At the conclusion of the project an environmental performance report shall be compiled and submitted to Department of Environmental Affairs. This report shall be compiled by the ECO, in collaboration with the Contractor and the Department: Rural Development and Land Reform and the project managers. It shall, as a minimum, outline the implementation of the Construction EMP, and highlight any problems and issues that arose during the construction period to report, on a formal basis, the lessons learned from the project.

15. COMPLIANCE AND PENALTIES

The contractor shall act immediately when a notice of non-compliance is received and correct whatever is the cause for the issuing of the notice. Complaints received regarding activities on the construction site pertaining to the environment shall be recorded in a dedicated register and the response noted with the date and action taken. This record shall be submitted with the monthly reports and an oral report given at the monthly site meetings.

Any non-compliance with the agreed procedures of the EMP is a transgression of the various statutes and laws that define the manner by which the environment is managed therefore any avoidable non-compliance, dependant on severity, shall be considered sufficient grounds for contact to be made with relevant provincial or national authorities.

The engineer's decision with regard to what is considered a violation, its seriousness and the action to be taken against the contractor shall be final. Failure to redress the cause shall be reported to the relevant authority. The responsible provincial or national authorities shall ensure compliance and impose penalties relevant to the transgression as allowed for within its statutory powers.

16. REPORT AVAILABILITY

Copies of this EMP shall be kept at the construction site office and will be accessible to all senior contract personnel. All senior personnel working on the project shall be required to familiarise themselves with the contents of this document.

17. ENVIRONMENTAL MITIGATION SPECIFICATIONS FOR IMPACTS

17.1 SOCIAL ENVIRONMENTAL ISSUES

It is important to minimize any negative perception, by taking proactive measures to prevent any social conflicts or social gaps and to develop a positive attitude within the community of the project. The following management strategies are to be implemented:

- Transparent fair recruitment and procurement practices. The contractor chosen should maximize
 the involvement of local communities in construction and support activities, to the extent possible,
 based on available skill levels. Whenever possible, training programmes that will benefit both
 construction stage skills requirements and long-term employment demand should be developed.
- The recruitment selection process should seek to promote gender equality and the employment of women wherever possible.
- Priority should be given to the local suppliers of goods and services, which meet requirements of
 project procurement as far as is possible. In order to optimize the opportunities for local businesses
 to supply goods and services to the project, the contractor will do a survey of the capabilities of the
 goods and services that are locally available that are of an acceptable standard and quality and a
 survey of the capabilities of local construction companies and identify opportunities for local
 suppliers.
- A public complaint register and system to ensure that community complaints clearly investigated and adequate remedial taken should be instituted.
- Adequate notification should be done to people residing close to where construction activities are taking place especially if they are to be affected by them. In addition, there should be a system of compensation for any damages to infrastructure that may occur.
- Each worker should be required to abide by a Code of Conduct which will limit unsavoury activities in local towns and communities and restrict certain behaviours in the work sites and accommodation.

17.2 FENCING

- Fencing of the campsite and construction area (if applicable) shall be suitably secured to prohibit access by livestock and local fauna.
- No unauthorised pedestrian or vehicular access shall be allowed into fenced off-limits areas.
- Fencing shall be kept neat at all times. The contractor shall be responsible for the maintenance of all fences.
- If temporary fencing is removed temporarily for the execution of work, the contractor shall reinstate it as soon as practicable.
- Breaches in the fencing must be repaired immediately.
- The purpose of the fenced areas is to control construction and personnel activity within the designated areas, and limit unauthorised access.
- No fences or gates that provide access to the site/construction campsite may be cut, lowered, removed or damaged in any way.
- Leave private gates, as they are found (open or closed). Gates to adjacent properties or onto public roads must be closed at all times.
- Open gates must be guarded to prevent animals from straying onto adjacent camps, roads or properties.

17.3 CLEARING AND GRUBBING

- Contractor shall at all times carefully consider what machinery is appropriate to the task while minimising the extent of environmental damage.
- Topsoil shall be cleared of woody vegetation and specifically exotic vegetation before ripping and removing.
- The topsoil is regarded as the top 300mm of the soil profile irrespective of the fertility appearance.
- Topsoil is to be stripped when it is in as dry a condition as possible in order to prevent compaction.
- The topsoil, including the existing grass cover is to be shallowly ripped (only the depth of the topsoil) before removal. This is to ensure that organic plant material, and the natural seed base is included in the stripping process.

- Soil stockpiles shall not be higher than 2.5m or stored for a period longer than one year. The slopes of soil stockpiles shall not be steeper than 1 vertical to 2.5 horizontal.
- No vehicles shall be allowed access onto the stockpiles after they have been placed.
- Stockpiles shall not be allowed to become contaminated with oil, diesel, petrol, garbage or any other material, which may inhibit the later growth of vegetation.
- The contractor shall apply soil conservation measures to the stockpiles to prevent erosion. This can include the use of erosion control fabric or grass seeding.
- If at any stage of the clearing operations archaeological artefacts are unearthed or identified the relevant organisations are to be contacted immediately to conduct a thorough scientific investigation of the finds.
- The works shall be cleared of alien vegetation as identified by the ESA. An effort must be made to remove the entire root system where after the plant shall be left to dry out on a hard surface that will not facilitate the germination of seed.
- If applicable, it must be ascertained (in writing) from the landowner concerned whether he wishes to retain the cleared bush, trees and shrubs. If not, they must be removed to the satisfaction of the owner, bearing in mind that it does not contravene waste disposal regulations.
- Burning of any material is not permitted under ANY circumstances.

17.4 ESTABLISHING OFFICE / CAMP SITES

- The area chosen for these purposes shall be the minimum reasonably required and which will involve the least disturbance to vegetation. No trees or shrubs will be felled or damaged for the purpose of obtaining firewood, unless agreed to by the landowner/tenant.
- Fires will only be allowed in facilities or equipment specially constructed for this purpose. If required by applicable legislation, a fire-break shall be cleared around the perimeter of the camp and office sites.
- Lighting and noise disturbance or any other form of disturbance that may have an effect on the landowner/tenant/persons lawfully living in the vicinity shall be kept to a minimum.
- Chemical toilet facilities or other approved toilet facilities should be sited in such a way that they do
 not cause water or other pollution. The use of existing facilities must take place in consultation with
 the landowner/tenant.
- In cases where facilities are linked to existing sewerage structures, all necessary regulatory requirements concerning construction and maintenance should be adhered to. The facilities must comply with water act requirements.
- Adequate signage must be provided and the area must be appropriated secured.
- Adequate parking and security should be provided at the campsites.

17.5 AIR QUALITY

The main sources of impact on air quality are mobilization of equipment, land clearing and earthworks. To ensure air quality characteristics of the project area are maintained near the baseline conditions during of the construction stage, the following measures shall be done:

- Regular inspection and scheduled maintenance of all equipment to ensure that construction vehicles are in good condition, are utilising fuel efficiently and do not smoke.
- Periodically watering the bare surfaces and excavations during construction to keep the dust level down.
- Slowing down the vehicles carrying the construction materials to reduce dust generation.
- Properly wrapping the material truck containers with cover to avoid dust spreads on windy days and prohibiting transport of over loaded trucks.
- Providing and using the safety equipment such as dust mask, noise cover for employees who work near the dusty location such as the heavy equipment operators

 Optimization of working schedule and work to help to minimize several material vehicle mobilization trips.

17.6 NOISE AND VIBRATIONS

The primary noise sources will be vehicles and equipment utilized during the construction stage including graders, bulldozers, general purpose vehicles, etc. To manage the impact the following will be done:

- Working schedule for the activities with high noise level will be arranged between 08:00 AM to 17:00 PM.
- Only well-maintained vehicles and equipment should be operated onsite and all machinery should be serviced regularly during the construction stage.
- Avoiding unnecessary simultaneous noisy activities.
- No amplified music shall be allowed at the site.
- Selecting 'quiet' construction equipment and working method and avoiding unnecessary revving and hooting.
- Providing ear protection for activities that are likely to create noise in order to protect worker's health and safety.

17.7 EROSION CONTROL

Construction activities will require the removal of vegetation cover, potentially resulting in soil erosion and subsequent impacts on surface water quality due to uncontrolled rainwater run-off or mechanical/wind action. The following measures are necessary to minimise impacts.

- Clearance of vegetation should be restricted to the absolute minimum required to facilitate construction activities to proceed. No protected plant species shall be removed without a permit. Disturbance of topsoil and vegetation rootstock must be minimized as far as possible.
- Appropriate drainage systems will be built to accommodate the surface water movement from the rain and wind.
- Construction activities shall take place only within the approved demarcated area. Appropriate drainage facilities must be constructed to make sure water runs smoothly downstream.
- Top soil layer will be kept to rehabilitate and will be adequately stored to protect it from erosion.
- Areas where construction has been finished should immediately be re-vegetated.

17.8 CONTAMINATION OF LAND

Land contamination may occur as a result of fuel and oil leaks or spills and/or poor fuel, chemical and waste storage.

- The storage areas shall be securely fenced and secured and appropriately marked to indicate the goods in the storage. Material Safety Data Sheets should be kept for all hazardous materials on site.
- All hazardous substances and stocks such as diesel, oils, detergents, etc., shall be stored in areas
 with impervious flooring such as concrete and properly bunded. Drip pans, other impervious
 surface, shall be installed in such storage areas with a view to prevent soil and water pollution.
- Dedicated impervious areas should be designated for concrete mixing and the spillage from concrete mixed should be cleaned immediately.
- The waste management strategy on the construction site should be hinged on the waste hierarchy
 model of 'reduce, reuse and recycle' waste in order to reduce the ultimate impact on the
 environment.

- All used oils, grease or hydraulic fluids shall be placed in appropriate impervious containers and these receptacles will be removed from the site on a regular basis for disposal at a licensed disposal facility or sent for recycling/reuse with a registered facility.
- Residues from machinery maintenance and other sources contaminated with hazardous waste should be stored in proper containers that avoid seepage to ground.
- Spills should be cleaned up immediately by removing the spillage together with the polluted soil and by disposing of them at a recognised facility. In areas where the spills are some, an absorbent agent can be used and the area treated in situ.
- Adequate waste receptacles shall be made available and all waste shall be adequately stored so
 that it does not pose a pollution risk. General waste is to be disposed of through the municipal
 service. Any other waste will be disposed of through only licensed waste disposal facilities.

17.9 SURFACE WATER QUALITY

Poor chemical storage and poor waste management practices may lead to the contamination of water sources. Sewage and sanitary effluent has the potential to adversely affect the quality of receiving water bodies unless properly managed. To eliminate the risk of contamination, the following measures have to be instituted.

- Chemical toilets shall be used during the construction stage and a registered service provider shall be contracted to service the toilets regularly.
- Suitable covered receptacles for waste shall be available at all times and conveniently placed for the disposal of waste.
- Warehouse floors and workshop areas should be of concrete. Drainage from warehouse is collected separately with trap for oil or fuels oil. Trap containers when full will be removed, properly stored and sent out to oil waste management company.
- Refuelling, fuel loading/unloading, oil change-outs, waste storage and disposal activities must be carefully managed to prevent spillages.
- Adequate toilets must be available on site for use by construction staff at all times. The digging of
 pit latrines for this purpose is not allowed under any circumstances. Should chemical toilets be
 used, an appropriate contractor must be employed to service these facilities on an ongoing basis.
- Spills or overflows from chemical or other toilets used by construction staff must be dealt with by a sanitation expert immediately.
- Any effluents containing oil, grease or other industrial substances must be collected in a suitable receptacle and treated prior to discharge or removed from the site for appropriate disposal at a recognised facility.

17.10 WATER USAGE

- Any water that is used which does not emanate from Municipality supplies must be registered and authorised by the Department of Water Affairs prior to usage commencement.
- The contractor shall promote responsible water use by all personnel.
- The contractor is requested to notify the Department of Water Affairs in writing of the proposed commencement of construction and provide the department with a construction programme, prior to any work commencing in proximity of a river or riverbank.
- Extreme caution shall be taken during construction owing to the sensitive natural spring areas. The ESA shall assess any preventable damage caused by the contractor and prescribe rehabilitation measures to be completed at the contractor's expense.
- No construction materials or pollutants, such as cement, shall be allowed to fall/ flow into the natural spring areas.
- No washing of clothes or vehicles will be allowed in the natural spring areas.

- The effluent from this facility (grey water) will drain into a French drain system to be constructed for this purpose.
- Only environmentally friendly bio-degradable detergents will be allowed in the construction camp.
- Any activity which brings about the run-off of sediments into any watercourse shall be forbidden.
- Any activity which adversely affects aquatic fauna and flora shall be forbidden
- The flow of the river may not be affected during construction and under no circumstances will the stream be blocked.

17.11 WATER RESOURCES MANAGEMENT PLAN

- The storm water management needs to be maintained to ensure natural flow of water will not be disturbed.
- The need to be clearly demarcated prior to construction to ensure no movement occurs within the
- existing concrete canal.
- Drip trays needs to be placed under stationary vehicles during construction, to prevent contamination of soil water.
- The existing irrigation concrete canal should be treated as no-go areas as far as possible and no construction activities, material or waste should occur or be placed in these areas.
- Adequate monitoring of weed establishment and their continued eradication must be maintained.
- Monitoring of construction including weed establishment and erosion should take place and should also specifically include any impacts or alterations to the surrounding depression of the irrigation canal.

17.12 FAUNA AND FLORA

Fauna and flora are negatively impacted by the clearance of vegetation, noise from construction activities (disturbance) and gathering/ hunting of flora and fauna by workers. The following measures are necessary to mitigate impacts.

- Clearance of vegetation should be restricted to the absolute minimum required to facilitate access and undertaken construction activities.
- Topsoil shall be removed and kept for use during rehabilitation.
- The Contractor shall be responsible for the removal of alien vegetation within areas affected by the construction activities including cleared ground and topsoil stockpiles. Equipment used should be regularly washed down to avoid transporting seeds (invasive species) or plant diseases.
- No protected or endangered plant species shall be removed without a permit or license.
- No trees or shrubs will be felled or damaged for the purpose of obtaining firewood, unless agreed to by the landowner/tenant.
- The rehabilitation activities require the re-planting of vegetation in any areas cleared for the construction activities. This will promote soil stability, improve the visual environment and provide faunal habitat.
- Hunting/gathering by construction workers must not be permitted.
- Localized habitat features such as nests, dens or burrow sites should be avoided as much as
 possible. In addition, care should be taken in working in areas of active nesting, spawning, and
 feeding areas.

17.13 SAFETY

- The Contractor shall be responsible for the protection of the public and public property from any dangers associated with the construction and operation of the road activities,
- All work should be handled in accordance with the Occupational Health and Safety Act and adequate safety precautions taken and suitable sanitation facilities provided in line with the

- requirements of the act. It is the duty of the contactor to ensure that the all protective measures against accidents are done.
- Any works/activities which may pose a hazard to humans and/or domestic animals are to be protected or cordoned off and, if appropriate, warning signage erected.
- Appropriate security is to be provided at the site to protect equipment and provide for a safe construction site and work areas.
- Any damage caused as a result of the construction activities shall be repaired to the satisfaction of the project manager and owner.

17.14 HISTORICAL ARCHEOLOGICAL AND HERITAGE IMPACTS

- Should any cultural or archaeological artefacts be found during operational activities, operations must cease immediately and the area secured and SAPS, and the South African Heritage Resources Agency and other relevant authorities informed immediately.
- No site of archaeological or historical significance maybe moved without a permit from the SAHRA.
 Any permitted removal of any archaeological or historical matter must be done under the strict supervision of a qualified registered archaeologist.

18. REHABILITATION

- On completion of operations, all buildings, structures or objects on the camp/office site shall be demolished and removed.
- Where office/camp sites have been rendered devoid of vegetation/grass or where soils have been compacted owing to traffic, the surface shall be scarified or ripped.
- On completion of operations, the areas shall be cleared of any contaminated soil, which must be dumped as per the waste management plan or at the local registered landfill site.
- All infrastructure, equipment, plant, temporary housing and roads and other items used during the construction period will be removed from the site.
- Waste material of any description, including receptacles, scrap, rubble and tyres, will be removed
 entirely from the area and disposed of at a registered waste disposal facility. It will not be permitted
 to be buried or burned on the site.
- Disturbed areas should be left in a safe and stable manner. Preventative measures may be necessary to construct adequate drainage structures including ditches and other structures to facilitate the movement of surface water.
- Photographs of the camp and office sites, before and during the construction and after rehabilitation, shall be taken at selected fixed points and kept on record.
- The disturbed surfaces shall then be ripped or ploughed and the topsoil previously stored shall be spread evenly to its original depth over the whole area. The area shall then be fertilised if necessary (based on a soil analysis).
- The site shall be seeded with a vegetation seed mix adapted to reflect the local indigenous flora.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, there might be need that the soil be analysed and any deleterious effects on the soil arising from the construction operation be corrected and the area be seeded with a seed mix to his or her specification.

19. HANDLING OF EMERGENCIES

• The contractor should identify all situations that can lead to emergency situations and provide response strategies. The situations should include fire and major chemical spill.

- Contact details of all departments/service providers to be contacted in case of an emergency shall be made available to employees.
- Equipment for dealing with emergencies such as spill kits, firefighting equipment, first aid boxes etc shall be made available and personnel properly trained in its use.
- All staff on site should be trained on how to handle emergency situations and emergency drills/ rehearsals should be conducted periodically to ensure that staff prepared.

20. METHOD STATEMENTS

The Contractor shall submit written Method Statements to for all environmentally sensitive aspects of the work. It should be noted that Method Statements must contain sufficient information and detail to mitigate the potential impacts of the works on the environment. The Contractor will also need to thoroughly understand what is required of him / her in order to undertake the works. Work shall not commence until Method Statements have been put in place.

Appendix A: Locality Map

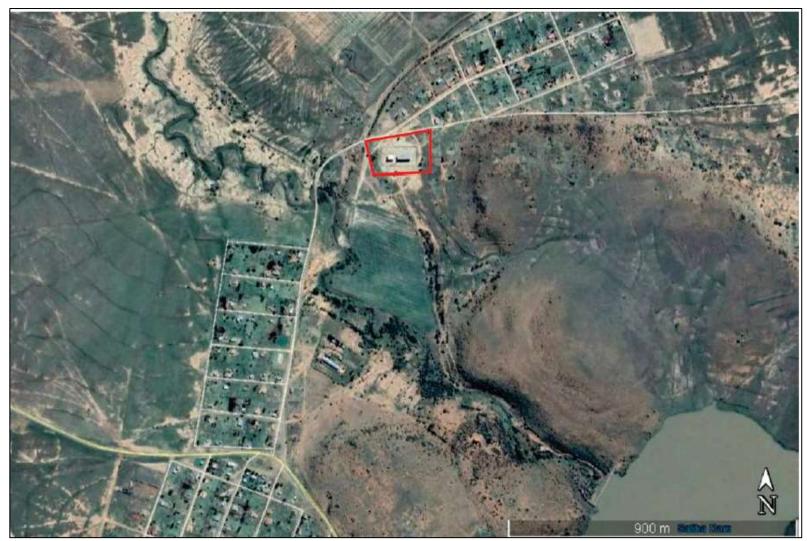


Figure 1: FPSU Locality Map

Appendix H: Details of EAP and expertise



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Langenhoven Park 9330

Specialists in Environmental Management
Integrating Industry and Infrastructure with the Environment

CURRICULUM VITAE

Salmon E. van Rooyen (Sampie)

Director Managing & Environmental Assessment Practitioner & Ecologist (MSc. Environmental Science; SACNASP-Cand.Sci.Nat.116554; IAIA Reg No. 5901; EAPASA Reg No. 2019/309)

Personal Information

ID: 9205095047086

Nationality: South African

Gender: Male

Health: Excellent

Vehicle License: Code A&B

Language: English/Afrikaans

Contact number: 083 678 3032

Email: svr@envmgp.com

Skills and Responsibilities

- Use of Geographical Information Systems;
- Conduct Environmental Impact Assessments and other Environmental Technical Investigations;
- Apply and obtain, water licenses, mining permits and environmental authorisations for clients;
- Use different GIS datasets in order to create new information or investigate patterns for projects;
- Conduct environmental compliance and other environmental audits;
- Microsoft Office and Planet GIS;
- Project Management;
- Biodiversity Assessments;
- Agricultural advisory.

Professional Experience

Date	5/2017 - Present
Organisation	Environmental Management Group
Position	Director; EAP; Ecologist

Date	8/ 2016 - 5/2017
Organisation	Terra Works Environmental
Position	Environmental scientist/ Office Manager

Date	1/2016 - 8/2016
Organisation	Bokamoso Environmental
Position	Environmental Specialist (Fauna and Flora), Water Use License Application Consultant, General Environmental Consultant.
Responsibilities	Conducting specialist Faunal and Flora assessments. Applying for Water Use Licenses. GIS Mapping. Environmental Impact Assessments.



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Specialists in Environmental Management
Integrating Industry and Infrastructure with the Environment

Date	1/2015 – 6/2015		
Organisation	Agreenco		
Position	Flora and Fauna Specialist		
Responsibilities	Rehabilitation and Alien eradication on game farm in the Magaliesburg region,		
	Rustenburg.		
Date	2014 - 2015		
Organisation	NWU Potchefstroom		
Position	Practical demonstrator		
Responsibilities	Responsible for laboratory preparation for NWU and UNISA Botany practical sessions, assistant facilitator of the practical syllabus, invigilating practical exams.		

Date	1/2015 – 11/2015	
Organisation	NWU Potchefstroom	
Position	Practical Post-Graduate Student Assistant	
Responsibilities	Assisting Post-Graduate students in veld surveying methods and technologies.	

Date	1/2014 – 6/2014
Organisation	E-Tek Consultants
Position	Contract, Monitoring specialist on De Beers Mining, Kimberley.
Responsibilities	Monitoring rehabilitated tailings on De Beers mines.

Date	2008 - 2016		
Organisation	Monswario Boerdery		
Position	Assistant Farm Manager		
Responsibilities	Farming experience of Bonsmara cattle and Meat-master sheep, as well as veld		
	management practices.		

Education

Institution	Degree(s) or Diploma(s) obtained
North West University Potchefstroom 2011 – 2013	BSc. Environmental and Biological Sciences and Tourism
North West University Potchefstroom 2014 – 2015	Hons BSc. Environmental Sciences (Ecology: Ecological Remediation & Sustainable development)
North West University Potchefstroom 2015 – 2016	MSc BSc. Environmental Sciences (Ecological Remediation &
	Sustainable Management)
North West University Potchefstroom 2015	Short Course at CEM (Centre for Environmental Management)
	in Basic Principles of Ecological Rehabilitation and Mine
	closure.



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Research and Conferences

Masters degree research project (2015 January-2016 November)

Ecological Remediation and Sustainable Management

Supervisors: Prof. Klaus Kellner and Dr. Niels Dreber

Title: Composition and structure of woody vegetation in thickened and controlled bushveld savanna in the Molopo, South Africa

Honours degree research project (2014 January-2014 November)

Ecological Remediation and Sustainable Management

Supervisors: Prof. Klaus Kellner and Dr. Niels Dreber

Title: Comparison of plant diversity of shrub thickened and chemically controlled savannas in the Molopo district, North-West Province, South Africa

Conference presentations (2014-2015)

- Comparison of plant diversity of shrub thickened and chemically controlled savannas in the Molopo district, North-West Province, South Africa. Biological Sciences Symposium, Potchefstroom, 2014. Presentation.
- Comparison of plant diversity of shrub thickened and chemically controlled savannas in the Molopo district, North-West Province, South Africa. Poster presentation: Arid-Zone Ecology and Thicket Fusion Form in 2014.
- Attending the Third Annual LaRSSA Conference (Land Rehabilitation Society of Southern Africa) (2015).

Experience of Academic Introductory Modules

Introduction to Environmental Management

Introduction to Landscape Ecology

Conservation Ecology

Introduction to GIS Applications

Restoration of degraded ecosystems

Microbial Ecology

Short Course at CEM (Centre for Environmental Management) in Basic Principles of Ecological Rehabilitation and Mine closure 28 September – 2 October 2015

Publications

DREBER, N., VAN ROOYEN, S.E. AND KELLNER, K. 2017. Relationship of plant diversity and bush cover in rangelands of a semi-arid Kalahari savannah, South Africa. John Wiley & Sons *African Journal of Ecology*



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Environmental Impact Assessment Projects

Туре	Client	Project	Role
Waste	Metsimaholo Local Municipality	Scoping/EIA; WULA application for the development of a new landfill site in Sasolburg	Lead EAP
	Joe Morolong Local Municipality	Scoping/EIA application for the development of a new landfill site in Hotazel	Lead EAP
Mining Permits or Rights	Danoher Contracting (PTY) Ltd	Mining Right application for a gravel BP in Bloemfontein	
	Michael Gutter	Mining Permit in Theunissen, Free State Province	Lead EAP
	Department of Rural Development and Land Reform	Mining Permit application for a sandstone Quarry in Zastron	Lead EAP
Road Construction	Free State Department of Police, Roads and Transport	BAR/IWUL/Mining Permit applications/ECO for the Deneysville - Jim Fouché road rehabilitation	Review of reports
	Free State Department of Police, Roads and Transport	BAR/IWUL/Mining Permit applications/ECO for the Deneysville - Heilbron road upgrading	Review of reports
	Free State Department of Police, Roads and Transport	BAR/IWUL applications/ECO for the Schonkenville - Koppies road upgrading	Review of reports
	SANRAL	BAR/IWUL/ECO applications for the N1 Section 16 road upgrade	Assistant EAP
	SANRAL	ECO Periodic Maintenance on National Route N6 Sec 8 from Reddersburg (km 0.00) to Rustfontein (km37.8)	Lead EAP
	Department of Roads	BAR/IWUL/Mining Permit applications for the MR 938	Assistant EAP
	and Public Works, Northern Cape	Mamatwan road upgrade	
	Free State Department of Police, Roads and Transport	ECO for the internal road upgrades in Thumahole, Free State Province.	Review of reports



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	Department of Roads and Public Works, Northern Cape	Environmental Screening/BAR/IWUL/ DAFF Permit applications/ECO for the BK126 Magobing to Bathlaros road upgrade.	Lead EAP
	Department of Roads and Public Works, Northern Cape	Environmental Screening/BAR/IWUL/ DAFF Permit applications/ECO for the Tsineng to Washington road upgrade.	Lead EAP
	Department of Roads and Public Works, Northern Cape	BAR/IWUL/ DAFF Permit applications/ECO for the Hotazel to Maipeng road upgrade.	Lead EAP
Infrastructure Developments	Amatola Water	IWUL application/ECO for the installation of a bulk water pipeline, Herschel	Assistant EAP
	Maluti A Phofung Local Municipality	IWUL application/ECO for the installation of a bulk water pipeline, Kestell to Qwa Qwa	Assistant EAP
	Dr. Ruth Segomotsi Mompati District Municipality	BAR and IWUL applications for the upgrading of the Waste Water Treatment Works in Stella	Lead EAP
	Dr. Ruth Segomotsi Mompati District Municipality	Environmental Screening/EMP/IWULA/ECO for the construction of a water provision project for the village of Reivilo, Shaleng, Madipelesa, Karelstad, Mothlako, Molelema, Lykso, Pitsong and Kameelputs, North-West Province.	Lead EAP
	Dr. Ruth Segomotsi Mompati District Municipality	Environmental Screening/ EMP/IWULA/ECO for the construction of a water provision project for the village of Schweizer-reneke, Piet Plessis, Konke, Broedersput, Geduldspan, Louwna, Mabone and Maeng, North-West Province.	Lead EAP
	Department of Rural Development and Land Reform	Scoping EIA, WULA and Air Emission License for the development of a Brick factory in Thaba-Nchu	Lead EAP
	Dr. Ruth Segomotsi Mompati District Municipality	Section 24G for the development of a pump station in the Wentzel Dam, Schweizer-reneke, North-West Province.	Lead EAP
	Dr. Ruth Segomotsi Mompati District Municipality	EMP/IWULA/ECO for the construction of a Waste Water Treatment Works for Stella, North-West Province.	Lead EAP



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	ASSMANG IRON ORE Khumani Mine	WULA/ECO for the development of three Khai Appel Boreholes and related infrastructure	Lead EAP
	AURECON	ECO for the upgrading of 12 Bridges in the De Aar and Upington Areas,	Lead EAP
	EUROMID AFRICA Development	EIA/Scoping/IWULA and ECO for MATJHABENG PRECINCT IDP PROJECT 201621, Free State Province.	Lead EAP
	Umfundu Professional Services CC.	IWULA and EIA/Scoping for the Mmamahabane cemetery establishment, Free State	Review of reports
	LMV (PTY) LTD.	Environmental Screening for the school developmentin Maokeng (Kroonstad) - Erwe 1500 & 24628, Free State Province	Lead EAP
	AURECON	Environmental Screening/BAR/WULA/ECO for Lindley Water Treatment Works and Pipeline route, Free State Province	Lead EAP
Residential Developments	Greater Taung Local Municipality	BAR application for Boipela Residential Development Extension in Reivilo	Lead EAP
Agriculture	VS Kunsmis	Scoping/EIA application for expansion of storage of a dangerous good at Vrede	Assistant EAP
	Linheim	BAR/ECO for the expantion of the Linheim Sheep Feedlot, Free State Province	Lead EAP
	Wildeklawer	BAR application for the expansion of pivot systems near Barkley West	Assistant EAP
	Department of Rural Development and Land Reform	Environmental Screening/BAR and WULA application for the development of an Agri-Park in Parys, Free State	Lead EAP
	Department of Rural	Environmental Screening/S24G and WULA application	Lead EAP
	Development and	for the development of an Agri-Park in Springfontein,	
	Land Reform	Free State	
	Department of Rural Development and Land Reform	S24G and WULA application for the development of an Agri-Park in Thaba-Nchu, Free State	Lead EAP



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Department of Rural Development and Land Reform	Environmental Screening for the development of an Agri-Park in Tsiame, Free State	Lead EAP
Department of Rural Development and Land Reform	Environmental Screening/BAR and WULA application for the development of an Agri-Park in Wesselsbron, Free State	Lead EAP
Department of Rural Development and Land Reform	Environmental Screening/BAR and WULA application for the development of a Farmer Production Support Unit in Koffiefontein, Free State	Lead EAP
Department of Rural Development and Land Reform	Environmental Screening/BAR and WULA application for the development of a Farmer Production Support Unit in Odendalsrus, Free State	Lead EAP
Department of Rural Development and Land Reform	Environmental Screening for the development of a Farmer Production Support Unit in Sediba, Free State	Lead EAP
Department of Rural Development and Land Reform	Environmental Screening/BAR application for the development of a Farmer Production Support Unit in Kroonstad, Free State	Lead EAP
Department of Rural Development and Land Reform	BAR, Waste and WULA application for the development of a Piggery in Sediba, Free State	Lead EAP
Department of Rural Development and Land Reform	BAR, Waste and WULA application for the development of a Piggery in Dewetsdorp, Free State	Lead EAP
Department of Rural Development and Land Reform	BAR, Waste and WULA application for the development of a Piggery in Paradys Thaba- Nchu, Free State	Lead EAP
Department of Rural Development and Land Reform	BAR and WULA application for the development of a Poultry facility Wesselsbron, Free State	Lead EAP
Department of Rural Development and Land Reform	BAR and WULA application for the development of a Ostrich feedlot in Peterusburg, Free State	Lead EAP
Sterraine (Pty) Ltd	BAR and WULA application for the development of a Poultry facility Kroonstad, Free State	Lead EAP



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*EIA Environmental Impact Assessment

*BAR Basic Assessment Report

*EMP Environmental Management Plan

*S24G Section 24G (Application for rectification)
*IWULA Integrated Water Use License Application

*ECO Environmental Control Officer

*EAP Environmental Assessment Practitioner





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Ecological Specialist Reports

Fauna Habitat Assessment Specialist Reports:

Johannesburg

Clubview extension 95 & 91: Mixed use DevelopmentFairlands: Road Interchange

Pretoria

Knoppieslaagte: Industrial Development
 Lanseria: Mixed Use Development
 Lanseria extension 56: Mixed Use Development
 Pretoria Gardens: Residential Development
 Wattle Springs: Residential Development
 PWV 17: Proposed Road Construction
 Sunderland Ridge extension 24: Industrial Development

Boksburg

Leeuwpoort: Residential Development

Randburg

Land Parcel 9: Mixed Use Development
 Land Parcel 10: Mixed Use Development
 Waterfall Kikuyu: Mixed Use Development

Brits

Winterveld: Residential Development

Flora Habitat Assessment Specialist Reports:

Knoppieslaagte extension 95:

Johannesburg

Clubview extention 95 & 91: Mixed use DevelopmentFairlands: Road Interchange

Pretoria

Knoppieslaagte: Industrial Development Lanseria extension 51 & 53: Mixed Use Development Mogale extension 5: Mixed Use Development Mixed Use Development Lanseria extension 56: Residential Development Pretoria Gardens: Wattle Springs: Residential Development > PWV 17: Proposed Road Development Sunderland Ridge extension 24: Industrial Development Randjiesfontein: Residential Development Rooihuiskraal: Mixed Use Development Garsfontein: Residential Development Knoppieslaagte extension 73: Industrial Development

Industrial Development



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Swartkoppies: Mixed Use Development Residential Development Waterfall fields: Waterfall Ridge:

Boksburg

> Leeuwpoort:

Randburg

➤ Land Parcel 9: ➤ Land Parcel 10: Mixed Use Development Mixed Use Development Waterfall Kikuyu: > Greystone: Mixed Use Development

Brits

Winterveld:

Vereeniging

➤ K 47: K 77:

Limpopo

> Steelpoort:

Bloemfontein

Section 16 N1 Road:

Kimberley

> Erf 11920: Wildeklaver:

Parys

Parys Agri-Park

Springfontein

Springfontein Agri-Park

Mixed Use Development

Residential Development

Mixed Use Development

Residential Development

Proposed Road Development Proposed Road Development

Industrial Development

Road Development

Residential Development Agricultural Development

Mixed Use Development

Mixed Use Development



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CURRICULUM VITAE

Matshego Oregolele Keikelame

Environmental Consultant

Personal Information

ID: 9101146245086

Nationality: South African

Gender: Male

Health: Excellent

Vehicle License: Code C1

Language: English/Afrikaans/Setwana/Sesotho

Contact number: 073 036 1385

Email: mk@envmgp.com

Skills and Responsibilities

- Use of Geographical Information Systems;
- Conduct Environmental Impact Assessments and other Environmental Technical Investigations;
- Apply and obtain, water licenses, mining permits and environmental authorisations for clients;
- Use different GIS datasets in order to create new information or investigate patterns for projects;
- Conduct environmental compliance and other environmental audits;
- Microsoft Office and Planet GIS.
- Liaising with clients in both the private and public sectors

Professional Experience

Date	August 2017 - Current
Organisation	Environmental Management Group
Position	Environmental Consultant

Date	July 2015 - August 2017
Organisation	Department of Police, Roads And Transport – Free State Province
Position	Environmental Science Intern
Description of duties	Conduct Application for Environmental Authorizations; Conduct Basic Assessment Reports and Environmental Management Plans (EMPs); Mining Permits; Conduct monthly environmental audits Public Participation Conduct site inspections; Water Use License Applications; Soil lab tests (CBR, MOD, PI)

Managing Director: S. van Rooyen | 083 678 3032 | svr@envmgp.com Director General: C.W. Vermeulen | 082 824 9308 | cwv@envmgp.com



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Education

Institution	Degree(s) or Diploma(s) obtained
University of The Free State 2009 - 2014	BSc. Geography
University of The Free State 2019 - 2020	Postgraduate Diploma in Integrated Water Management



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Specialists in Environmental Management
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Environmental Impact Assessment Projects

Туре	Client	Project	Role
Mining Permits or Rights	Department of Rural Development and Land Reform	Mining Permit application for a sandstone Quarry in Zastron	Assistant EAP
	Free State Department of Police, Roads and Transport	BAR for borrow pits/ quarries reserved in terms of the free state roads ordinance of 1968	Review
Road Construction	Department of Roads and Public Works, Northern Cape	Environmental Screening/BAR/IWUL/ DAFF Permit applications/ECO for the BK126 Magobing to Bathlaros road upgrade.	Assistant EAP
	Department of Roads and Public Works, Northern Cape	BAR/IWUL/ DAFF Permit applications/ECO for the Hotazel to Maipeng road upgrade.	ECO
	Department of Roads and Public Works, Northern Cape	ECO/Mining closure certificate for Upgrading of the Gravel Section of MR 947 between Rusfontein and Laxy- Phase 2	EAP/ECO
Infrastructure Developments	Amatola Water	IWUL application/ECO for the installation of a bulk water pipeline, Herschel	ECO
	Dr. Ruth Segomotsi Mompati District Municipality	Environmental Screening/EMP/IWULA/ECO for the construction of a water provision project for the village of Reivilo, Shaleng, Madipelesa, Karelstad, Mothlako, Molelema, Lykso, Pitsong and Kameelputs, North-West Province.	Assistant EAP/ECO
	Dr. Ruth Segomotsi Mompati District Municipality	Environmental Screening/ EMP/IWULA/ECO for the construction of a water provision project for the village of Schweizer-reneke, Piet Plessis, Konke, Broedersput, Geduldspan, Louwna, Mabone and Maeng, North-West Province.	Assistant EAP/ECO
	Department of Rural Development and Land Reform	Scoping EIA, WULA and Air Emission License for the development of a Brick factory in Thaba-Nchu	Assistant EAP
	EUROMID AFRICA Development	EIA/Scoping/IWULA and ECO for MATJHABENG PRECINCT IDP PROJECT 201621, Free State Province.	Assistant EAP

Environmental Management Group Pty (Ltd) Reg. No. 2017/077689/07 VAT Reg No: 4350278778

Managing Director: S. van Rooyen | 083 678 3032 | svr@envmgp.com Director General: C.W. Vermeulen | 082 824 9308 | cwv@envmgp.com



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Residential Developments	Sol Plaatjie Municipality	Upgrading of Lerato Park from Informal to integrated settlement	ECO
Agriculture	Linheim	BAR/ECO for the expansion of the Linheim Sheep Feedlot, Free State Province	Assistant EAP

Appendix I: Specialist's declaration of interest

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) amended and the Environmental Impact Assessment Regulations, 2014

PROJECT TITLE

SEDIBA FARMER PRODUCTION SUPPORT UNIT

Specialist:	Lloyd Rossouw			\neg
Company Name:	Palaeo Field Services			
Contact person:	Lloyd Rossouw			
Postal address:	PO Box 38806 Langenhoven Pa	rk		
Postal code:	9330	Cell:	0842505992	
Telephone:	-	Fax:	0864010679	
E-mail:	lloyd.rossouw@gmail.com			
Professional affiliation(s) (if any)	Archaeology and Cultural Antho	ropology	Specialist	

Project Consultant:	Environmental Manage	ement Group (PTY)	LTD
Contact person:	Sampie van Rooyen		
Postal address:	P.O Box 37473 Langen	hoven Park	
Postal code:	37473	Fax:	051 412 6351
Telephone:	051 412 6350	Cell:	083 678 3032
E-mail:	svr@envmgp.com		•

The specialist appointed in terms of the Regulations.

I, <u>Lloyd Rossouw</u> , decla	are that
---------------------------------	----------

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work:
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my
 possession that reasonably has or may have the potential of influencing any decision to be taken
 with respect to the application by the competent authority; and the objectivity of any report, plan
 or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

A Cosson
Signature of the specialist:
Paleo Field Services
Name of company (if applicable):
02/08/2020
Date:

Appendix J: Title Deeds

WinDeed Database Deeds Office Property



F0320000000003500000

GENERAL INFORMATION

Date Requested2017/10/10 10:44Deeds OfficeBLOEMFONTEINInformation SourceWINDEED DATABASE

Reference -

PROPERTY INFORMATION

Property Type FARM
Farm Name SELIBA
Farm Number 35
Portion Number 0

Local AuthorityNOT AVAILABLERegistration DivisionTHABA'NCHU RDProvinceFREESTATEDiagram DeedG10F/1885BPExtent1667.0940H

Previous Description

LPI Code F0320000000003500000

OWNER INFORMATION

Owner 1 of 2

Type GOVERNMENT

Name REPUBLIEK VAN SUID-AFRIKA

ID / Reg. Number

Title Deed G00/1885BP

Registration Date

Purchase Price (R) SECT 28

Purchase Date - 0.00

Microfilm 2006 0478 0181

Multiple Properties NO Multiple Owners NO

Owner 2 of 2

Type GOVERNMENT

Name REPUBLIEK VAN SUID-AFRIKA

ID / Reg. Number

 Title Deed
 T22703/1999

 Registration Date
 1999/09/03

Purchase Price (R) TRANSFER BY ENDO

Purchase Date Share 0.00
Microfilm Multiple Properties NO
Multiple Owners NO

END	OORSEMENTS (7)			
#	Document	Institution	Amount (R)	Microfilm
1	I-774/2000-I	REPUBLIEK VAN SUID-AFRIKA	0	-
2	EX191/2005	-	UNKNOWN	-
3	EX192/2005	-	UNKNOWN	-
4	I-5871/2007C	NOTICE 1620 OF 2007-20071019	UNKNOWN	2007 0423 4334
5	42S/1934BP	-	UNKNOWN	-
6	THABA'N RD,35	-	UNKNOWN	-
7	VA69/2017	REPUBLIEK VAN SUID-AFRIKA	UNKNOWN	-

Printed: 2017/10/10 10:45

HIST	TORIC DOCUMENTS (1)			
#	Document	Owner	Amount (R)	Microfilm
1	G00/1885BP	REPUBLIEK VAN BOPHUTHATSWANA	SECT 28	2006 0478 0181

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Appendix K: Landowner's Consent Letter



Free State Provincial Office of Rural Development and Land Reform, Private Bag X20546, BLOEMFONTEIN, 9300 Tel (051) 400 4200 Fax (051) 430 2392

LAND RIGHTS HOLDERS' RESOLUTION IN TERMS OF THE "INTERIM PROCEDURES GOVERNING LAND DEVELOPMENT DECISIONS WHICH REQUIRE THE CONSENT OF THE MINISTER OF RURAL DEVELOPMENT AND LAND REFORM AS NOMINAL OWNER OF THE LAND" WHICH WAS APPROVED BY POLCOM ON 20 NOVEMBER 1997 AND AMENDED ON 14 JANUARY 1998 & ALSO IN TERMS OF SECTION 3(1) (A) (II) OF ACT 112 OF 1991 AS AMENDED BY ACT 34 OF 1996

1. At a meeting of the SEKIBA TRUFF / VILLAGE Land Rights Holders

at THAMA. MCHILL, district of MATTAMARA POTEP province of FREE STATE
on the 24... day of MARCH. 2018 before BARDLONG. BO SELETA Councilors,
Community leaders and representatives, Land Rights Holders present.

2. The PURPOSE of the meeting being
TO GET SELIEA TRUST / VILLAGE LATTE BLOWS SELETANGERY
OF HOLDERS RESOLUTION ON THE PROPOSED COTTURED OF HOLDER PARTY SELIEAT TRUST IN THASA NOW.
SISTRICT OF MATTAMARA METRO WHICH IS THE
VILLAGE WASTA BARDLONG BO SELETATE AND TOMAL
COUNCILL.

3. That the Land Rights Holders were informed of the meetingdays/ months prior thereof, through the following CHANNELS OF COMMUNICATION
INVITATION CETTERS, LOUBHATLER.
4. By means of (specify the type of MEDIA used)
NO MESIA WAS USES.
······································
4.4
5. That the Land Rights Holders consists of approximately
which
6. That
favor of the above resolution andvoted against it.
7. That I am satisfied that the majority of the adult members present at the meeting were in favor of the above resolution.
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/community have resolved that THE REPRESENT OF RURAL LEVELOPMENT
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/ community have resolved that
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/community have resolved that THE REPORT OF RURBL LEVELOPMENT AND LAND REPORM CAN CONTINUE WAY THE CONTRUCTION OF THE PROPERTS
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/community have resolved that THE BETTER MENT OF RUBBL LEVELOPMENT. AND LAND REPORM CAN CONTINUE. WITH THE CONSTRUCTION OF THE PROPOSESS. ACM PARK AS IT WILL BETTERS SEOWER
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/community have resolved that THE REFERENT OF RUPAL LEVELOPMENT AND LAND REFORM CAN CONTINUE WITH THE CONSTRUCTION OF THE PROPOSED AGAIN PARK AS IT WILL BETTERED SECONDA TRUST IN CLASS COMMUNITY AND SURROUMING
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/community have resolved that THE BETTER MENT OF RUBBL LEVELOPMENT. AND LAND REPORM CAN CONTINUE. WITH THE CONSTRUCTION OF THE PROPOSESS. ACM PARK AS IT WILL BETTERS SEOWER
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/community have resolved that THE REFERENT OF RUPAL LEVELOPMENT AND LAND REFORM CAN CONTINUE WITH THE CONSTRUCTION OF THE PROPOSED AGAIN PARK AS IT WILL BETTERED SECONDA TRUST IN CLASS COMMUNITY AND SURROUMING
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/community have resolved that THE REFERENT OF RUPAL LEVELOPMENT AND LAND REFORM CAN CONTINUE WITH THE CONSTRUCTION OF THE PROPOSED AGAIN PARK AS IT WILL BETTERED SECONDA TRUST IN CLASS COMMUNITY AND SURROUMING
in favor of the above resolution. 8. The Land Rights Holders' Statement of Resolution. The land rights holders/community have resolved that THE REFERENT OF RUPAL LEVELOPMENT AND LAND REFORM CAN CONTINUE WITH THE CONSTRUCTION OF THE PROPOSED AGAIN PARK AS IT WILL BETTERED SECONDA TRUST IN CLASS COMMUNITY AND SURROUMING

M.B F.J M.S

9. It was further RESOLVED that	
9.1 The following signatories will sign the agreem behalf to give effect to the decision to alienate	e/ develop the land
9.1.1 Name: Moffrewages ele kagemere	
Signature	Date: 24 MARCH 2018
9.1.2 Name: Moushous JETLOGERO	Capacity. REPREFEITTOTIVE
Signature:	Date: 74 MARCH 2018
9.1.3 Name:	Capacity. REPRETENTATIVE
	Date: 24 MARCH 7018
Signature:	.Date:
Signature:	.Date:
9.2 The following signatories will co-sign the least to give effect to the decision to alienate/ develop agreement are the community, the investor/ deve	e agreement on behalf of the community the land. (The parties to the lease
9.2 The following signatories will co-sign the least to give effect to the decision to alienate/ develop agreement are the community, the investor/ development and Land Reform)	e agreement on behalf of the community the land. (The parties to the lease sloper and the Minister of Rural
9.2 The following signatories will co-sign the least to give effect to the decision to alienate/ develop agreement are the community, the investor/ development and Land Reform)	e agreement on behalf of the community the land. (The parties to the lease loper and the Minister of Rural SEAGA TRUST Capacity Community Rubbes entitles.
9.2 The following signatories will co-sign the least to give effect to the decision to alienate/ develop agreement are the community, the investor/ development and Land Reform) 9.2.1 Name:	e agreement on behalf of the community the land. (The parties to the lease sloper and the Minister of Rural SEAGH TRUST Capacity Community Representation Date: UH MARCH 2018
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9.2 The following signatories will co-sign the least to give effect to the decision to alienate/ develop agreement are the community, the investor/ development and Land Reform) 9.2.1 Name: **Management** **Regional Community** **Regional Community** **Signature** **Regional Community** **Signature** **Signat	e agreement on behalf of the community the land. (The parties to the lease sloper and the Minister of Rural SEAGH TRUST Capacity Community Representation Date: UH MARCH 2018

M.B F.J

Signature: Date: 24 MACH 2018

9.3 The following signatories will sign the agency agreement on behalf of the community. (The agency agreement is a trust contract with the agent who will hold and administer the funds for the benefit of the community, following the decision to alienate/ develop the	
land).	
9.3.1 Name: Lathewagesele Kgauere Capacity Community REPROFEMENTAN	E
9.3.2 Name Mourton Set Second Capacity Representative	
Signature: Date: 24 MARCH 2018 9.3.3 Name: Capacity REDRETED THATIVE	-17
9.3.3 Name: Capacity Capacity	
Signature: Date: 20 MARCH 2018	
10. The co-signatories in section 9.1, 9.2 and 9.3 signed on behalf of and with full consent of the Land Rights Holders present or represented in the meeting.	
The BAROLONG BO SELEKA Tribal / Local/ Community Authority and the	
SEBIBH TRUST / VILLAGE Land Rights Holders/ Community and other structures residing on the land shall be bound in law by this land rights holders 'resolution.	
10. This Land Rights Holders constitutes a legal document and to give effect to it, the community has approved that they approve to this resolution document and that the following SIGNATORIES sign this Land Rights Holders' Resolution on their behalf:	
10.1 Name: It though of the Kgavare Capacity Commence & Representation	-
10.1 Name: Methowas osele kgoware Capacity Communary Kerrest MANGEL 2018 Signature: Date: Ut MANGEL 2018	
BARDLOM, BO SELEKA	
10.2 Name: MOCTHOHES) SETLOCECO Capacity REPRESENTATIVE	
Signature: Date: 24 MARCH 2018	
10.3 Name: Capacity REAL SENTATIVE	ſ
Signature: Date: 44 MARCH 2018	

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M.B F.J

CERTIFICATE

CERTIFICATE
Fush Joseph SELLO the duly appointed Investigating Official from the Department of Rural Development and Land Reform hereby certify that:-
(i) I have attended the meeting of the SEABA TRUST / VILLACLE
Community/ Land Rights Holders under the chair/leadership of
BAROLONG BOSELEKA TRAGITIONAL COUNCIL.
Convened for purposes of considering this resolution.
(ii) The facts set out in the above resolution are to the best of my knowledge, true and correct and this resolution is a true record of the proceedings at the meeting.
(iii) The nature of the rights is GRAZIME RIGHTS.
Strike out where necessary:
(a) The development will/ will not lead to a change in these rights
(b) Those whose rights are affected have been/ have not been accommodated
(c) There are/ there are no overlapping land rights
(d) New rights & benefits are created/ no new rights & benefits are created
(e) The rights of women have improved/ stay the same/ are worse of because of the development decision
(iv) The signatories affixed their signatures to this document in my presence.
(v) I have to the best of my ability explained the purpose and legal implications of the said resolution to those present and represented at the meeting
SIGNED ON THE SHIDAY OF MARCH 20.18 AT SEABATRUST MUSICE PROJECT OFFICER
OFFICIAL'S SIGNATURE DESIGNATION

NB! SEE ATTACHED ATTENDANCE REGISTER of rights holders attending the meeting

Appendix L: Enquiry response



Enquiries: Ms. G. Mkhosana Tel No: 051 400 4812

Mr. Sampie van Rooyen
Environmental Management Group
P.O Box 28242
Danhof
9310

Tel: 051 412 6350

Email address: svr@envrmgp.com

Dear Mr. van Rooyen,

RE: SEDIA AND MAKHOLOGOENG SHED AND ADMIN OFFICES.

The Department of Economic, Small Business Development, Tourism and Environmental Affairs (DESTEA) - 'the Department', acknowledges receipt of your request for a listed activity confirmation in terms of 2014 Environmental Impact Assessment (EIA) Regulations as amended promulgated under National Environmental Management Act, 1998 (Act No. 107 of 1998) on the 25 October 2017.

Based on information provided on the email dated 25 October 2017, the Department hereby confirms that the proposed activity does not trigger any listed activity in terms of 2014 EIA regulations as amended. Therefore, you are not required to apply for an Environmental Authorisation prior to commencement of the proposed activity.

Furthermore the proponent is advised to adhere to the provisions of Section 28 of NEMA (Duty-of-Care) throughout the lifespan of the activity.

Regards,

McLare Ms. G. Mkhosana

Acting Director: Environmental Management

Date: 26/10/2017