# PROPOSED EXPANSION OF KOKOSI CEMETERY, KOKOSI SETTLEMENT, SOUTH-WEST OF FOUCHVILLE, IN THE MERAFONG LOCAL MUNICIPALITY, GAUTENG PROVINCE.

## DRAFT BASIC ASSESSMENT REPORT

MARCH 2022


**COMPILED BY:**

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**PREPARED FOR:**

Merafong Local Municipality, Kokosi Settlement

South-West of Fouchville

Gauteng Province

**Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Version 1)**

**Kindly note that:**

1. This **Basic Assessment Report (BAR)** is the standard report required by GDARD in terms of the EIA Regulations, 2014.

2. This application form is current as of 8 December 2014. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.

3. A draft Basic Assessment Report must be submitted, for purposes of comments within a period of thirty (30) days, to all State Departments administering a law relating to a matter likely to be affected by the activity to be undertaken.

4. A draft Basic Assessment Report (**1 hard copy and two CD's**) must be submitted, for purposes of comments within a period of thirty (30) days, to a Competent Authority empowered in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended to consider and decide on the application.

5. Five (5) copies (3 hard copies and 2 CDs-PDF) of the final report and attachments must be handed in at offices of the relevant competent authority, as detailed below.

6. 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.

7. Selected boxes must be indicated by a cross and, when the form is completed electronically, must also be highlighted.

8. An incomplete report may lead to an application for environmental authorisation being refused.

9. Any report that does not contain a titled and dated full colour large scale layout plan of the proposed activities including a coherent legend, overlain with the sensitivities found on site may lead to an application for environmental authorisation being refused.

10. 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 application for environmental authorisation being refused.

11. No faxed or e-mailed reports will be accepted. Only hand delivered or posted applications will be accepted.

12. Unless protected by law, and clearly indicated as such, all information filled in on this application will become public information on receipt by the competent authority. The applicant/EAP must provide any interested and affected party with the information contained in this application on request, during any stage of the application process.

13. Although pre-application meeting with the Competent Authority is optional, applicants are advised to have these meetings prior to submission of application to seek guidance from the Competent Authority.

## DEPARTMENTAL DETAILS

Gauteng Department of Agriculture and Rural Development
Attention: Administrative Unit of the of the Environmental Affairs Branch
P.O. Box 8769
Johannesburg
2000

Administrative Unit of the Sustainable Utilization of the Environment (SUE) Branch
Ground floor, Umnotho House, 56 Eloff Street, Johannesburg
Email Address: bongani.shabangu@gauteng.gov.za

Administrative Unit telephone number: (**011) 240 3377/305**1
Department central telephone number: (**011) 240 2500**

(For official use only)

| | | | | | | |
|---|---|---|---|---|---|---|
| **NEAS Reference Number**: | | | | | | |
| **File Reference Number**: | | | | | | |
| **Application Number**: | | | | | | |
| **Date Received:** | | | | | | |

If this BAR has not been submitted within 90 days of receipt of the application by the competent authority and permission was not requested to submit within 140 days, please indicate the reasons for not submitting within time frame.

**N/A**

Is a closure plan applicable for this application and has it been included in this report?

if not, state reasons for not including the closure plan.

**N/A**

Has a draft report for this application been submitted to a competent authority and all State Departments administering a law relating to a matter likely to be affected as a result of this activity? **YES**

Is a list of the State Departments referred to above attached to this report including their full contact details and contact person? **YES**

If no, state reasons for not attaching the list.

**N/A**

Have State Departments including the competent authority commented? NO

**If no, why?**

This BAR is still in draft status

# TABLE OF CONTENTS

# SECTION A: ACTIVITY INFORMATION

## 1. PROPOSAL OR DEVELOPMENT DESCRIPTION

**Project title (must be the same name as per application form):**

Proposed Expansion of Kokosi cemetery, Kokosi settlement, South-West of Fochville, Merafong Local Municipality, Gauteng province.

**Select the appropriate box:**

| The application is for an upgrade of an existing development | X | The application is for a new development | | Other, specify | |
|---|---|---|---|---|---|

Does the activity also require any authorisation other than NEMA EIA authorisation?

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

If **yes**, describe the legislation and the Competent Authority administering such legislation

National Environmental Management Act No. 107 of 1998 for listed activities under section 24(2) and 24D of NEMA. (Amended on 07 April 2017).

**The proposed project includes the expansion of cemetery and associated structures. These include the following** :

- A security wall enclosing the cemetery
- Guard house
- Office of the caretaker
- Ablution Facilities

**The Development is not anticipated to produce large quantities of waste. The proposed ground burial has the following advantages:**

- Family tradition
- Religious Tradition
- A place for a permanent memorial to be erected
- A place to return to and to care for which can give comfort to the survivors

If **yes**, have you applied for the authorization(s)?

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

If **yes**, have you received approval(s)? (attach in appropriate appendix)

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

## 2. 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:**

| Title of legislation policy or guide | Administering Authority | Promulgation date |
|---|---|---|
| National Environmental Management Act, 1998 (Act No. 107 of 1998 as amended). | GDARD | 27 November 1998 |
| National Environmental Management Act No.107 of 1998 | National & Provincial | 27 November 1998 |
| National Heritage Resource Act No.25 of 1999 | South African Heritage Resource Agency | 28 APRIL 1999 |
| The Occupational Health and Safety Act no.85 of 1993 | Department of Health | 23 June 1993 |
| National Environmental Management Biodiversity Act No.10 of 2004 | GDARD | 07 June 2004 |
| National Water Act No.36 of 1998 | Department of Water and Sanitation | 26 August 1998 |
| The Constitution of the Republic of South Africa Act (Act 108 of 1996) | Republic of South Africa | 1996 |

**Description of compliance with the relevant legislation, policy or guideline:**

| Legislation, policy of guideline | Description of compliance |
|---|---|
| Activity 27 of LN1- "The clearance of an area of 1 hectare or more; but less than 20 hectares of indigenous vegetation". | Clearance of an area of 1 hectare or more, but less than 20 hectares of indigenous vegetation to accommodate this expansion of the cemetery so that the regulation can be administered within the parameters of NEMA 107 of 1998. |
| Activity 44 of LN1- "The expansion of cemeteries by 2500 square metres or more". | Expansion if the existing cemetery and related infrastructure by more than 2500 square meters |

## 3. ALTERNATIVES

Describe the proposal and alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished. The determination of whether the 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.

The no-go option must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. **Do not** include the no go option into the alternative table below.

**Note:** 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.

Please describe the process followed to reach (decide on) the list of alternatives below:

| |
|---|
| **N/A** |

**Provide a description of the alternatives considered:**

| **No.** | **Alternative type**, either alternative: site on property, properties, activity, design, technology, energy, operational or other(provide details of "other") | **Description**<br><br>**NO alternatives** |
|---|---|---|
| 1 | Proposal | Natural burial is the interment of the body of a dead person in the soil in a manner that does not inhibit decomposition but allows the body to recycle naturally. It an alternative to other contemporary Western Burial Methods. |
| | **Activity Alternatives**: No activity alternatives were assessed as the land has been identified by the Merafong Local Municipality as a cemetery site.<br><br>**Design Alternatives**: No design alternatives were assessed, due to the layout being informed by environmental constraints, which are in turn assessed herewith.<br><br>**Location Alternatives**: No location alternatives were assessed as the current location is the only available land adjacent to an existing cemetery. Therefore, we only | **N/A** |

| | | |
|---|---|---|
| | assessed the following alternatives: • Cemetery extension (preferred) • No-Go | |

In the event that no alternative(s) has/have been provided, a motivation must be included in the table below.

| |
|---|
| There is no alternative because the proposed site is adjacent to the existing and it is reserved for that purpose. |

## 4. PHYSICAL SIZE OF THE ACTIVITY

**Indicate the total physical size (footprint) of the proposal as well as alternatives. Footprints are to include all new infrastructure (roads, services etc), impermeable surfaces and landscaped areas:**

| | Size of the activity: |
|---|---|
| Proposed activity ***(Total environmental (landscaping, parking, etc.) and the building footprint)*** | **5ha+** |
| **Alternatives:** | |
| Alternative 1 **(if any)** | **N/A** |
| Alternative 2 **(if any)** | **N/A** |
| | **Ha/ m²** |

or, for **linear activities**:

| | **Length of the activity:** |
|---|---|
| Proposed activity | |
| **Alternatives:** | |
| Alternative 1 (if any) | **N/A** |
| Alternative 2 (if any) | **N/A** |
| | **m/km** |

**Indicate the size of the site(s) or servitudes (within which the above footprints will occur):**

| | **Size of the site/servitude:** |
|---|---|
| **Proposed activity** | **N/A** |
| **Alternatives:** | |
| Alternative 1 **(if any)** | **N/A** |
| Alternative 2 **(if any)** | |
| | **Ha/m²** |

## 5. SITE ACCESS

**Proposal**

| | | |
|---|---|---|
| Does ready access to the site exist, or is access directly from an existing road? | **YES** | |

If **NO,** what is the distance over which a new access road will be built | **N/A**

Describe the type of access road planned:

There is one major road around the proposed activity area namely Kerk street

Include the position of the access road on the site plan (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

**Alternative 1**

Does ready access to the site exist, or is access directly from an existing road? | **N/A**

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

**Describe the type of access road planned:**

**N/A**

Include the position of the access road on the site plan. (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

**Alternative 2**

Does ready access to the site exist, or is access directly from an existing road? | **N/A**

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

**Describe the type of access road planned:**

**N/A**

Include the position of the access road on the site plan. (If the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

**PLEASE NOTE: Points 6 to 8 of Section A must be duplicated where relevant for alternatives**

Section A 6-8 has been duplicated | **0** | Number of times

(Only complete when applicable)

## 6. LAYOUT OR ROUTE PLAN

A detailed site or route (**for linear activities)** plan(s) must be prepared for each alternative site or alternative activity. It must be attached to this document. The site or route plans must indicate the following:

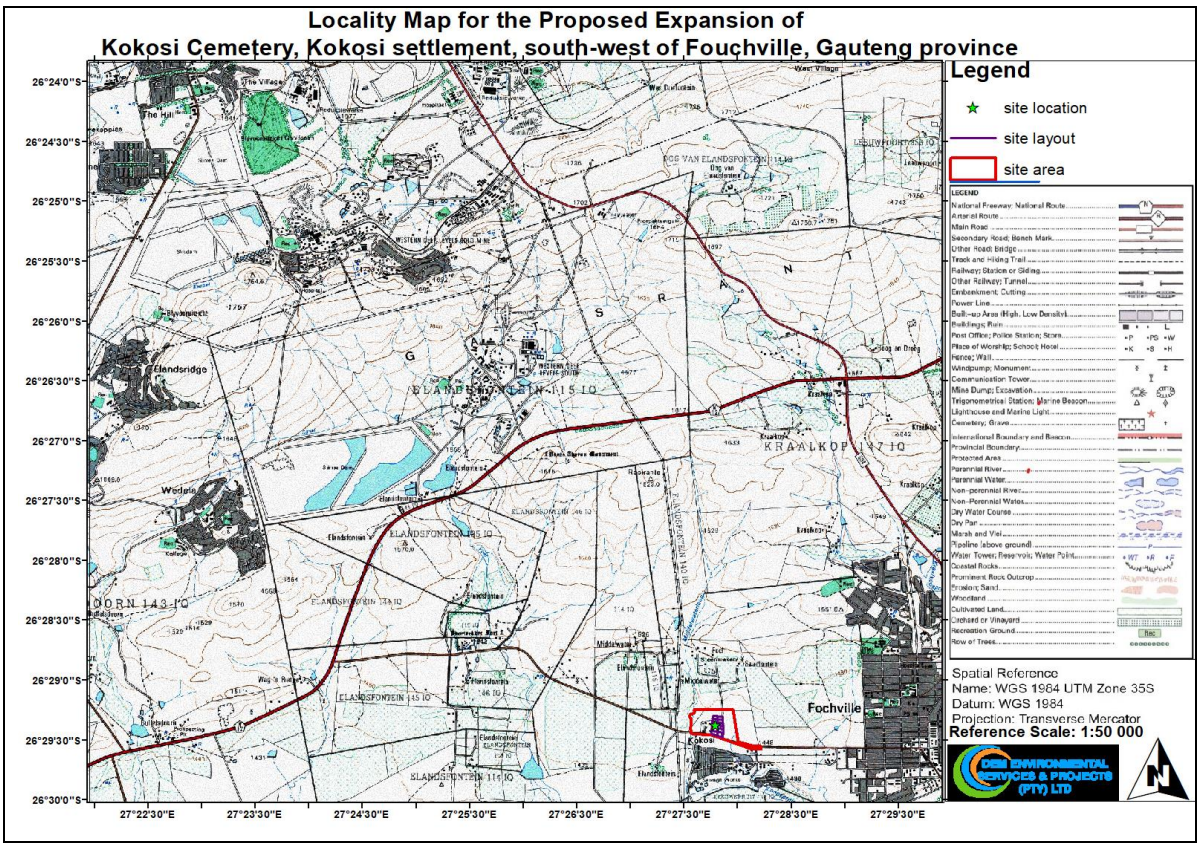
- the layout plan is printed in colour and is overlaid with a sensitivity map (if applicable);
- Layout plan is of acceptable paper size and scale, e.g.
  - A4 size for activities with development footprint of 10sqm to 5 hectares;
  - A3 size for activities with development footprint of > 5 hectares to 20 hectares;
  - A2 size for activities with development footprint of >20 hectares to 50 hectares);
  - A1 size for activities with development footprint of >50 hectares);

- The following should serve as a guide for scale issues on the layout plan:
  - A0 = 1: 500
  - A1 = 1: 1000
  - A2 = 1: 2000
  - A3 = 1: 4000

- A4 = 1: 8000 (±10 000)

- shapefiles of the activity must be included in the electronic submission on the CD's;
- the property boundaries and Surveyor General numbers of all the properties within 50m of the site;
- the exact position of each element of the activity as well as any other structures on the site;
- the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, sewage pipelines, septic tanks, storm water infrastructure;
- servitudes indicating the purpose of the servitude;
- sensitive environmental elements on and within 100m of the site or sites (including the relevant buffers as prescribed by the competent authority) including (but not limited thereto):
  - Rivers and wetlands;
  - the 1:100 and 1:50 year flood line;
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or infested with alien species);
- Where a watercourse is located on the site at least one cross section of the water course must be included (to allow the position of the relevant buffer from the bank to be clearly indicated)

## Locality Map



## 7. SITE PHOTOGRAPHS

**SEE APPENDIX B**

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 the appropriate Appendix**.** It should be supplemented with additional photographs of relevant features on the site, where applicable.

## 8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 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 to be attached in the appropriate appendix

**SEE APPENDIX C**

# SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

**Note**: Complete Section B for the proposal and alternative(s) **(if necessary)**

**Instructions for completion of Section B for linear activities**

1) For linear activities (pipelines etc) it may be necessary to complete Section B for each section of the site that has a significantly different environment.
2) Indicate on a plan(s) the different environments identified
3) Complete Section B for each of the above areas identified
4) Attach to this form in a chronological order
5) Each copy of Section B must clearly indicate the corresponding sections of the route at the top of the next page.

**Section B** has been duplicated for sections of the route **N/A** times

**Instructions for completion of Section B for location/route alternatives**

1) For each location/route alternative identified the entire Section B needs to be completed
2) Each alterative location/route needs to be clearly indicated at the top of the next page
3) Attach the above documents in a chronological order

**Section B** has been duplicated for location/route alternatives **N/A** times **(Complete only when appropriate)**

**Instructions for completion of Section B when both location/route alternatives and linear activities are applicable for the application**

**Section B is to be completed and attachments order in the following way:**

- All significantly different environments identified for Alternative 1 is to be completed and attached in a chronological order; then
- All significantly different environments identified for Alternative 2 is to be completed and attached chronological order, etc.

**Section B** - Section of Route **N/A** (complete only when appropriate for above)

Section B – Location/route Alternative No. **N/A** (complete only when appropriate for above)

## 1. PROPERTY DESCRIPTION

| | |
|---|---|
| **Property description:** (Including Physical Address and Farm name, portion etc.) | Portion 5 of Foch, 150 /IQ in Merafong Local municipality Ward 24, in Westrand District Municipality in the Gauteng Province |

## 2. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

**Activity Location GPS coordinates:**

| Latitude (S): | Longitude (E): |
|---|---|
| **26°29´22.70" S,** | **27°27´47.73" E º** |

**In the case of linear activities:**
**Alternative:**

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

| Latitude (S): | Longitude (E): |
|---|---|
| **N/A** | |
| **N/A** | |
| **N/A** | |

For route alternatives that are longer than 500m, please provide co-ordinates taken every 250 meters along the route and attached in the appropriate **Appendix**

| | |
|---|---|
| Addendum of route alternatives attached | **N/A** |

The **21 digit Surveyor General code** of each cadastral land parcel

| PROPOSAL | T | 0 | I | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALT. 1 | | | | | | | | | | | N/A | | | | | | | | | | |
| ALT. 2 | | | | | | | | | | | N/A | | | | | | | | | | |
| etc. | | | | | | | | | | | N/A | | | | | | | | | | |

## 3. GRADIENT OF THE SITE

Indicate the general gradient of the site.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Flat** | | | | | | |

## 4. LOCATION IN LANDSCAPE

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

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | **Plain** | | |

## 5. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

### a) Is the site located on any of the following?

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

(Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

### b) are any caves located on the site(s)

| | |
|---|---|
| | NO |

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

| **Latitude (S):** | **Longitude (E):** |
|---|---|
| N/A o | N/A o |

### c) are any caves located within a 300m radius of the site(s)

| | |
|---|---|
| | NO |

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

| **Latitude (S):** | **Longitude (E):** |
|---|---|
| N/A | N/A o |

### d) are any sinkholes located within a 300m radius of the site(s)

| | |
|---|---|
| | NO |

If **YES** to above provide location details in terms of latitude and longitude and indicate location on site or route map(s);

| **Latitude (S):** | **Longitude (E):** |
|---|---|
| N/A o | NA o |

If any of the answers to the above are "**YES**" or "**unsure**", specialist input may be requested by the Department

## 6. AGRICULTURE

| | |
|---|---|
| Does the site have high potential agriculture as contemplated in the Gauteng Agricultural Potential Atlas (GAPA 4)? | NO |

**Please note**: The Department **may** request specialist input/studies in respect of the above.

## 7. GROUNDCOVER

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

Indicate the types of groundcover present on the site and include the **estimated** percentage found on site:

| | | | | |
|---|---|---|---|---|
| Natural veld - good condition<br>% = 74 | Natural veld with scattered aliens<br>% =1 | Natural veld with heavy alien infestation<br>% = 0 | Veld dominated by alien species<br>% =0 | Landscaped (vegetation)<br>% =0 |
| Sport field<br>% =0 | Cultivated land<br>% =0 | Paved surface (hard landscaping)<br>% =0 | Building or other structure<br>% =0 | Bare soil<br>% =25 |

**Please note**: The Department may request specialist input/studies depending on the nature of the groundcover and potential impact(s) of the proposed activity/ies.

| | | |
|---|---|---|
| Are there any rare or endangered flora or fauna species (including red list species) present on the site: | | **NO** |

If **YES**, specify and explain:

| |
|---|
| N/A |

| | | |
|---|---|---|
| Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban area as defined in the Regulations) or within 600m (if outside the urban area as defined in the Regulations) radius of the site. | | **NO** |

If **YES**, specify and explain**:**

| |
|---|
| **N/A** |

| | | |
|---|---|---|
| Are there any special or sensitive habitats or other natural features present on the site? | | **NO** |

If YES, specify and explain:

| |
|---|
| **N/A** |

| | | |
|---|---|---|
| Was a specialist consulted to assist with completing this section: | **YES** | |

If **YES** complete specialist details:

| | |
|---|---|
| Name of the specialist: | Dr. Freddy Tshiala |
| Qualification(s) of the specialist: | PhD in Environment and Society |
| Postal address: | 281 Penny Whistle Estate |

| | | | |
|---|---|---|---|
| Postal code: | 1034 | | |
| Telephone: | 066 330 4103 | Cell: | 072 514 4196 |
| E-mail: | info@demenvironmental.co.za | Fax: | 086 415 2644 |

| | | |
|---|---|---|
| Are any further specialist studies recommended by the specialist? | | **NO** |
| If **YES,** specify: | **N/A** | |
| If **YES**, is such a report(s) attached? | | **NO** |

If **YES** list the specialist reports attached below;

| |
|---|
| **N/A** |

| | | | |
|---|---|---|---|
| **Signature of specialist:** | *Dr. F.Tshiala* | **Date:** | 18/02/2022 |

**Please note;** If more than one specialist was consulted to assist with the filling in of this section then this table must be appropriately duplicated

## 8. LAND USE CHARACTER OF SURROUNDING AREA

Using the associated number of the relevant current land use or prominent feature from the table below, fill in the position of these land-uses in the vacant blocks below which represent a 500m radius around the site:

| | | | | |
|---|---|---|---|---|
| 1. Vacant land | 2. River, stream, wetland | 3. Nature conservation area | 4. Public open space | 5. Koppie or ridge |
| 6. Dam or reservoir | 7. Agriculture | 8. Low density residential | 9. Medium to high density residential | 10. Informal residential |
| 11. Old age home | 12. Retail | 13. Offices | 14. Commercial & warehousing | 15. Light industrial |
| 16. Heavy industrial[AN] | 17. Hospitality facility | 18. Church | 19. Education facilities | 20. Sport facilities |
| 21. Golf course/polo fields | 22. Airport[N] | 23. Train station or shunting yard[N] | 24. Railway line[N] | 25. Major road (4 lanes or more)[N] |

| | | | | |
|---|---|---|---|---|
| 26. Sewage treatment plant[A] | 27. Landfill or waste treatment site[A] | 28. Historical building | 29. Graveyard | 30. Archeological site |
| 31. Open cast mine | 32. Underground mine | 33.Spoil heap or slimes dam[A] | 34. Small Holdings | |
| Other land uses (describe): | **N/A** | | | |

**NOTE: Each block represents an area of 250m X 250m, if your proposed development is larger than this please use the appropriate number and orientation of hashed blocks**

NORTH

| | | | | |
|---|---|---|---|---|
| **3** | **4** | **4** | **4** | **9,34** |
| **3** | **4** | **4** | **4** | **9.34** |
| **3** | **29,30** | | **9,34** | **9,34** |
| **9,34** | **9,34** | **9,34** | **9,34** | **9,34** |
| **9,34** | **9,34** | **9,34** | **9,34** | **9,34** |

WEST EAST

SOUTH

**Note:** More than one (1) Land-use may be indicated in a block

**Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies. Specialist reports that look at health & air quality and noise impacts may be required for any feature above and in particular those features marked with an "**A**" and with an "**N**" respectively.

Have specialist reports been attached :

| **YES** | |
|---|---|

If **YES** indicate the type of reports below;

| |
|---|
| Hydrological, heritage , ecological and geotechnical reports |

## 9. SOCIO-ECONOMIC CONTEXT

Describe the existing social and economic characteristics of the area and the community condition as baseline information to assess the potential **social, economic and community impacts**.

Kokosi is located in the southwest of the region Merafong City Ward 24. The site is located in a small holding area which comprise mostly of residential areas. Housing type is mostly RDPs and some shacks which are located approximately 500m to the South of the site. To the East of the site there are some recently built flats.

## 10. CULTURAL/HISTORICAL FEATURES

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposal or alternatives, then you are requested to furnish this Department with written comment from the **South African Heritage Resource Agency (SAHRA**) – Attach comment in appropriate annexure

*38. (1) Subject to the provisions of subsections (**7), (8)** and **(9),** any person who intends to undertake a development categorized as-*

*(a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding* **300m** *in length;*

*(b) the construction of a bridge or similar structure exceeding* **50m** *in length;*

*(c) any development or other activity which will change the character of a site-*

*(i) exceeding* **5 000 m2** *in extent; or*

*(ii) involving three or more existing erven or subdivisions thereof; or*

*(iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or*

*(iv) the costs of which will exceed a sum set in terms of regulations by* **SAHRA** *or a provincial heritage resources*

*authority;*

*(d) the re-zoning of a site exceeding* **10 000 m***2 in extent; or*

*(e) any other category of development provided for in regulations by* **SAHRA** *or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.*

| | |
|---|---|
| Are there any signs of culturally (aesthetic, social, spiritual, environmental) or historically significant elements, as defined in section 2 of the **National Heritage Resources Act, 1999, (Act No. 25 of 1999**), including archaeological or palaeontological sites, on or close **(within 20m)** to the site? | **NO** |

If **YES**, explain:

| N/A |
|---|

If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist if one was already appointed:

| A Phase 1 Heritage Impact Assessment Study was done, and no evidence of archaeological or heritage value were identified. |
|---|

| | | |
|---|---|---|
| Will any building or structure older than **60 years** be affected in any way? | | **NO** |
| Is it necessary to apply for a permit in terms of the **National Heritage Resources Act, 1999 (Act 25 of 1999)?** | | **NO** |

If **YES,** please attached the comments from **SAHRA** in the appropriate Appendix:

## SECTION C: PUBLIC PARTICIPATION (SECTION 41)

The **Environmental Assessment Practitioner (EAP)** must conduct public participation process in accordance with the requirement of the **EIA Regulations, 2014**.

### 1. ADVERTISMENT

The **Environmental Assessment Practitioner (EAP)** must follow any relevant guidelines adopted by the competent authority in respect of public participation and must at least –

1**(a)** Fix a notice in a conspicuous place, on the property where it is intended to undertake the activity which states that an application will be submitted to the competent authority in terms of these regulations and which provides information on the proposed nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations on the application may be made.

1**(b)** inform landowners and occupiers of adjacent land of the applicant's intention to submit an application to the competent authority

1**(c)** inform landowners and occupiers of land within **100 metres** of the boundary of the property where it is proposed to undertake the activity and whom may be directly affected by the proposed activity of the applicant's intention to submit an application to the competent authority;

1**(d)**inform the ward councillor and any organisation that represents the community in the area of the applicant's intention to submit an application to the competent authority; 1(e)inform the municipality which has jurisdiction over the area in which the proposed activity will be undertaken of the applicant's intention to submit an application to the competent authority; and

1**(f)** inform any organ of state that may have jurisdiction over any aspect of the activity of the applicant's intention to submit an application to the competent authority; and

1**(g)** place a notice in one local newspaper and any Gazette that is published specifically for the purpose of providing notice to the public of applications made in terms of these regulations.

## 2. LOCAL AUTHORITY PARTICIPATION

**Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least thirty (30) calendar days before the submission of the application to the competent authority.**

| | | |
|---|---|---|
| Was the draft report submitted to the local authority for comment? | | **NO** |

| | | |
|---|---|---|
| If **YES**, has any comments been received from the local authority? | | **NO** |

If "**YES"**, briefly describe the comment below (also attach any correspondence to and from the local authority to this application):

| |
|---|
| **N/A** |

If **"NO"** briefly explain why no comments have been received or why the report was not submitted if that is the case.

| |
|---|
| The project belongs to the Local Municipality |

## 3. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the activity, site or property, such as servitude holders and service providers, should be informed of the application at least **thirty (30) calendar days** before the submission of the application and be provided with the opportunity to comment.

| | | |
|---|---|---|
| Has any comment been received from stakeholders? | | **NO** |

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

| |
|---|
| **N/A** |

If "**NO"** briefly explain why no comments have been received

No response.

## 4. GENERAL PUBLIC PERTICIPATION REQUIREMENTS

The **Environmental Assessment Practitioner (EAP)** must ensure that the public participation process is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as **Ward Committees** and ratepayers associations. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was flawed.

The **EAP** must record all comments and respond to each comment of the public / interested and affected party before the application report is submitted. The comments and responses must be captured in a Comments and Responses Report as prescribed in the regulations and be attached to this application.

## 5. APPENDICES FOR PUBLIC PARTICIPATION

All public participation information is to be attached in the appropriate Appendix. The information in this Appendix is to be ordered as detailed below;

**Appendix E1** – Proof of site notice

**Appendix E2 –** Written notices issued as required in terms of the regulations

**Appendix E3** – Proof of newspaper advertisements

**Appendix E4** –Communications to and from interested and affected parties

**Appendix E5** – Minutes of any public and/or stakeholder meetings

**Appendix E6** - Comments and Responses Report

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

**Appendix E8** –Comments from I&APs on amendments to the BA Report

**Appendix E9** – Copy of the register of I&Aps

# SECTION D: RESOURCE USE AND PROCESS DETAILS

**Note:** Section D is to be completed for the proposal and alternative(s) (**if necessary**)

**Instructions for completion of Section D for alternatives**

1) For each alternative under investigation, where such alternatives will have different resource and process details (e.g. technology alternative), the entire Section D needs to be completed

4) Each alterative needs to be clearly indicated in the box below

5) Attach the above documents in a chronological order

| | | | |
|---|---|---|---|
| **Section D** has been duplicated for alternatives | **N/A** | Times | (**complete only when appropriate**) |

| | | |
|---|---|---|
| **Section D** Alternative No. | N/A | (complete only when appropriate for above) |

## 1. WASTE, EFFLUENT, AND EMISSION MANAGEMENT

**Solid waste management**

| | |
|---|---|
| Will the activity produce solid construction waste during the construction/initiation phase? | **YES** |
| If **YES**, what estimated quantity will be produced per month? | ±0.005m$^3$ |

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

Construction phase: Most waste is expected to be packaging materials (shrink wrap, cardboard) and litter generated by the construction staff. Waste will be recycled as far as possible. Non-recyclable waste will be sorted into different types and disposed of at a suitably licensed waste disposal facility. Disposal of solid waste will be in line with that of the landfill personnel; however onsite there will be a skip in which waste will be stored before transportation to the landfill for disposal. A licensed wasted management company will be contracted to manage the waste during the construction period.

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

Solid waste will be disposed of at a local landfill site. Waste considered unsuitable for municipal waste disposal sites will be disposed of at a suitably licensed waste disposal facility.

| | |
|---|---|
| Will the activity produce solid waste during its operational phase? | **YES** |
| If yes, what estimated quantity will be produced per month? | **±0.01`m$^3$** |

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

Waste will be recycled as far as possible. Non-recyclable waste will be sorted into different types and disposed of at a suitably licensed waste disposal facility.

| | |
|---|---|
| Has the municipality or relevant service provider confirmed that sufficient air space exists for treating/disposing of the solid waste to be generated by this activity? | **NO** |

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

Confirmation will be obtained from the municipality that sufficient space exists for the waste prior to construction.

**Note:** 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, 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 relevant legislation? | **NO** |

If **YES**, inform the competent authority and request a change to an application for scoping and **EIA**.

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

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

**General Waste Management**

- Litter and rubble on the construction site and in the construction, camp will be monitored strictly by a dedicated housekeeping team.
- All waste generated on site will be separated into metal, paper, plastic, glass & contaminated paper, glass, plastic, and polystyrene and will be recycled.

**Construction rubble**

- All rubble from demolition activities will be used on site as part of the existing development or will be taken off the construction site and disposed at an appropriate landfill.
- No material shall be left on site that may harm man or animals. Broken, damaged and unused nuts, bolts and washers shall be picked up and removed from site.
- Surplus concrete will not be dumped indiscriminately.
- Concrete water will be re-used in the batching process

**Liquid effluent (other than domestic sewage)**

| | |
|---|---|
| Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system? | **NO** |
| If yes, what estimated quantity will be produced per month? | **$m^3$** |
| If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the liquid effluent to be generated by this activity (ies)? | **NO** |

| | |
|---|---|
| Will the activity produce any effluent that will be treated and/or disposed of on site? | **NO** |

| If **YES,** what estimated quantity will be produced per month? | **N/Am³** |
|---|---|

If **YES** describe the nature of the effluent and how it will be disposed.

| **N/A** |
|---|

Note that if effluent is to be treated or disposed on site 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? | | **NO** |
|---|---|---|

If **YES**, provide the particulars of the facility:

| | | | |
|---|---|---|---|
| Facility name: | | | |
| Contact person: | | | |
| Postal address: | **N/A** | | |
| Postal code: | | | |
| Telephone: | | | |
| E-mail: | | | |

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

| **N/A** |
|---|

**Liquid effluent (domestic sewage)**

| Will the activity produce domestic effluent that will be disposed of in a municipal sewage system? | **YES** | |
|---|---|---|
| If yes, what estimated quantity will be produced per month? | **±0.002 m³** | |
| If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the domestic effluent to be generated by this activity(ies)? | | **NO** |

| Will the activity produce any effluent that will be treated and/or disposed of on site? | | **NO** |
|---|---|---|

If **YES** describe how it will be treated and disposed off.

| **N/A** |
|---|

**Emissions into the atmosphere**

| | |
|---|---|
| Will the activity release emissions into the atmosphere? | **NO** |
| If **YES,** is it controlled by any legislation of any sphere of government? | **NO** |

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

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

Emissions may be produced by construction vehicles during the construction phase of the project. Dust may also be created during the construction phase. The EMP will however address mitigation measures. No emissions will be produced during operation of the facility.

## 2. WATER USE

Indicate the source(s) of water that will be used for the activity

| | | | | | |
|---|---|---|---|---|---|
| **Municipal** | | | | | |

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: **5000L**

| | |
|---|---|
| Does the activity require a water use permit from the Department of Water Affairs? | **NO** |

If **YES,** list the permits required

**N/A**

| | |
|---|---|
| If yes, have you applied for the water use permit(s)? | **NO** |
| If yes, have you received approval(s)? (attached in appropriate appendix) | **NO** |

## 3. POWER SUPPLY

Please indicate the source of power supply e.g. Local Municipality / Eskom / Renewable energy source

Local Municipality

If power supply is not available, where will power be sourced from?

Renewable energy sources such as the use of solar power will be investigated as an alternative energy source.

## 4. ENERGY EFFICIENCY

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

None has been determined yet, but the designs will take into account energy efficiency.

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

None is anticipated since the development will not consume lots of energy

## SECTION E: IMPACT ASSEMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts as well as the impacts of not implementing the activity (Section 24(4)(b)(i).

### 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summarise the issues raised by interested and affected parties.

No issues raised yet

Summary of response from the practitioner to the issues raised by the interested and affected parties (including the manner in which the public comments are incorporated or why they were not included) (A full response must be provided in the Comments and Response Report that must be attached to this report):

**N/A**

### 2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION AND OPERATIONAL PHASE

**Briefly describe the methodology utilized in the rating of significance of impacts;**

The significance of the identified impacts will be determined using an accepted methodology from the **GDARD** Guideline document on EIA Regulations. As with all impact methodologies, the impact is defined in a semi-quantitative way and will be assessed according to methodology prescribed in the

following section.

Once the Environmental Risk Ratings have been evaluated for each potential environmental impact, the Significance Score of each potential environmental impact is calculated by using the following formula:

• **SS (Significance Score) = (magnitude + duration + extent + irreplaceable + reversibility) x probability.**

The maximum Significance Score value is 150. The Significance Score is then used to rate the Environmental Significance of each potential environmental impact both before and after implementation of the recommended mitigation measures.

## Scale utilised for the evaluation of the Environmental Risk Ratings

| Evaluation Component | Rating | Scale | Description / criteria |
|---|---|---|---|
| **MAGNITUDE of negative impact (at the indicated spatial scale)** | **10** | **Very high** | Bio-physical and/or social functions and/or processes might be severely altered. |
| | **8** | **High** | Bio-physical and/or social functions and/or might be considerably or processes might be considerably altered |
| | **6** | **Medium** | Bio-physical and/or social functions and/o processes might be notably altered. |
| | **4** | **Low** | Bio-physical and/or social functions and/or processes might be slightly altered. |
| | **2** | **Very low** | Bio-physical and/or social functions and/or processes might be negligibly altered. |
| | **0** | **Zero** | Bio-physical and/or social functions and/or processes will remain unaltered. |
| **MAGNITUDE of POSITIVE IMPACT (at the indicated spatial scale** | **10** | **Very high** | Positive: Bio-physical and/or social functions and/or processes might be substantially enhanced |
| | **8** | **High** | **Positive**: Bio-physical and/or social functions and/or processes might be considerably enhanced |
| | **6** | **Medium** | **Positive**: Bio-physical and/or social functions and/or processes might be notably enhanced. |
| | **4** | **Low** | **Positive**: Bio-physical and/or social function and/or processes might be slightly enhanced |
| | **2** | **Very low** | **Positive**: Bio-physical and/or social functions |

| | | | | |
|---|---|---|---|---|
| | | | and/or processes might be negligibly enhanced | |
| | **0** | **Zero** | **Positive**: Bio-physical and/or social functions and/or processes will remain unaltered | |
| **Duration** | **5** | **Permanent** | **Impact in perpetuity.** | |
| **Evaluation Component** | **Rating** | **Scale** | **Description / criteria** | |
| | **4** | **Long-term** | Impact ceases after operational phase/life of the activity > 60 years | |
| | **3** | **Medium-term** | Impact might occur during the operational phase /life of the activity – 60 years. | |
| | **2** | **Short-term** | Impact might occur during the construction phase - < 2 years. | |
| | **1** | **Immediate** | **Instant impact.** | |
| **EXTENT (or spatial scale/influence of impact)** | **5** | **International** | **Beyond the National boundaries** | |
| | **4** | **National** | Beyond provincial boundaries, but within National boundaries | |
| | **3** | **Regional** | Beyond 5 km of the cemetery and within the provincial boundaries | |
| | **2** | **Local** | Within a 5 km radius of the cemetery | |
| | **1** | **Site-specific** | **On site or within 100 meters of the cemetery boundaries.** | |
| | **0** | **None** | **Zero extent** | |
| **IRREPLACEABLE loss of resources** | **5** | **Definite** | **Definite** loss of irreplaceable resources. | |
| | **4** | **High potential** | **High** potential for loss of irreplaceable resources | |
| | **3** | **Moderate potential** | **Moderate** potential for loss of irreplaceable resources | |
| | **2** | **Low potential** | **Low** potential for loss of irreplaceable resources. | |
| | **1** | **Very low potential** | **Very low** potential for loss of irreplaceable resources | |
| | **0** | **None** | **Zero potential** | |
| **REVERSIBILITY of impact** | **5** | **Irreversible** | Impact **cannot** be reversed | |
| | **4** | **Low irreversible** | **Low** potential that impact might be reversed | |
| | **3** | **Moderate reversibi** | **Moderate** potential that impact might be reversed | |

| | | | | |
|---|---|---|---|---|
| | | lity | | |
| | 2 | High reversibility | **High** potential that impact might be reversed. | |
| | 1 | Reversible | Impact **will be** reversible | |
| | 0 | No impact | No impact | |
| **PROBABILITY (of occurrence** | 5 | Definite | >95% chance of the potential impact occurring. | |
| | 4 | High probability | 75% - 95% chance of the potential impact occurring | |

| | | | |
|---|---|---|---|
| | 3 | Medium probability | 25% - 75% chance of the potential impact occurring |
| | 2 | Low probability | 5% - 25% chance of the potential impact occurring. |
| | 1 | Improbable | <5% chance of the potential impact occurring. |
| | 0 | No probability | Zero probability |

| Evaluation Component | Rating | Scale and criteria/ Description. |
|---|---|---|
| **CUMULATIVE impacts** | | **High**: The activity is one of several similar pasts, present or future activities in the same geographical area, and might contribute to a very significant combined impact on the natural, cultural, and/or socio-economic resources of local, regional, or national concern.<br><br>**Medium:** The activity is one of a few similar pasts, present or future activities in the same geographical area, and might have a combined impact of moderate significance on the natural, cultural, and/or socio-economic resources of local, regional, or national concern.<br><br>**Low:** The activity is localized and might have a negligible cumulative impact.<br>**None:** No cumulative impact on the environment. |

**Scale used for the evaluation of the Environmental Significance Ratings**

| Significance score | Environmental significance | Description |
|---|---|---|
| 1250 – 150 | Very high (VH) | An impact of very high significance will mean that the project cannot proceed, and that impacts are irreversible, regardless of available mitigation options. |
| 100 – 124 | High (H) | An impact of high significance which could influence a |

| | | |
|---|---|---|
| | | decision about whether or not to proceed with the proposed project, regardless of available mitigation options. |
| **75 – 99** | **Medium-high (MH)** | If left unmanaged, an impact of medium-high significance could influence a decision about whether or not to proceed with a proposed project. Mitigation options should be relooked at |
| **40 – 74** | **Medium (M)** | If left unmanaged, an impact of moderate significance could influence a decision about whether or not to proceed with a proposed project. |
| **<40** | **Low (L)** | An impact of low is likely to contribute to positive decisions about whether or not to proceed with the project. It will have little real effect and is unlikely to have an influence on project design or alternative motivation. |
| **+** | **Positive impact (+)** | A positive impact is likely to result in a positive consequence/effect, and is likely to contribute to positive decisions about whether or not to proceed with the project |

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the construction phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

**Proposal**

| **Potential impacts:** | **Significance rating of impacts (positive or negative):** | **Proposed mitigation:** | **Significance rating of impacts after mitigation:** | **Risk of the impact** and **mitigation not being implemented** |
|---|---|---|---|---|
| Visual Environment<br>• The movement of construction vehicles through the camp may be associated with a visual impact. | Medium | • Construction traffic must stick to designated routes | Low | May cause accidents around the sites |
| Soil<br>• Spillage of fuel or oil leaks from construction vehicles may result in the contamination of soil and | **Medium** | Fuel Storage:<br>• Topsoil and subsoil to be protected from contamination | **Low** | Loss of habitats, biodiversity loss |

| | | | | |
|---|---|---|---|---|
| groundwater.<br>• Stormwater runoff may cause erosion of topsoil and concomitant siltation of watercourses, if not carefully controlled. | | .<br>• Fuel and material storage must be away from stockpiles.<br>• Contaminated soil must be contained and disposed of off-site at a licensed landfill site.<br>Earthworks:<br>• All earthworks must be adequately controlled and managed.<br>• Any excavations must be clearly marked and demarcated<br><br>Soil Erosion:<br>• Only topsoil in the footprint should be removed and soil disturbance to areas outside the construction footprint must | | |

| | | | | |
|---|---|---|---|---|
| | | be avoided.<br>• Bare areas must be revegetated as soon as possible after construction | | |
| Noise<br>• Noise generated during construction can result in health and nuisance impacts to neighbouring property owners | **Medium** | • SANS 10103 and the National Noise Control Regulations should be used as the main guidelines for addressing the potential noise impact on this project.<br>• With regard to unavoidable very noisy construction activities in the vicinity of noise sensitive areas, these should be screened off with acoustic screens, where possible. If no acoustic screening is used during exceptionally noisy construction times, prior warning to community members would be extremely important.<br>• As construction workers | **Low** | Might cause harm to workers and even some community members living within the vicinity of the proposed site |

| | | | | |
|---|---|---|---|---|
| | | operate in a very noisy environment, it must be ensured that their working conditions comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993). Where necessary ear protection gear should be worn. | | |
| • Accumulated contamination of soil and groundwater due to inappropriate disposal of construction waste and other construction debris<br>• Accumulation of construction debris on site | **Low** | **Construction Rubble:**<br>• All rubble must either be used on site as part of the existing development or must be taken off the site and disposed off at an approved site.<br>• Rubble must not be dumped on the ground but must be placed within a skip bin for regular removal, insofar as possible.<br><br>**Litter Management:**<br>• Refuse bins must be placed at strategic positions to ensure that litter does not accumulate within the construction site. These should be kept covered and arrangements made for them to be collected regularly from | **Low** | The rubble might damage or impede the growth of vegetation in the cemetery surroundings |

| | | | | |
|---|---|---|---|---|
| | | the site.<br>• A housekeeping team should be appointed to regularly maintain the litter and rubble situation on the construction site | | |
| Flora and Fauna<br>• Minor construction related impacts are anticipated, it is however not expected to impact endangered or threatened species due to the location of the site within an existing impacted, transformed area.<br>• The spread of exotic species may result from construction activities. This may have implications in the area as a whole if this is not controlled | **Medium** | • Existing Vegetation Materials should not be delivered to the site prematurely which could result in additional areas being cleared or affected.<br>• Construction site office and laydown areas must be clearly demarcated,<br>•<br>• and no encroachment must occur beyond demarcated areas.<br>• All impacted areas during construction must be rehabilitated with locally indigenous plants.<br>• Design of the landscaped areas shall consider aspects such as habitat provision for a range of bird species, amphibians, reptiles and small mammals, as well as the (long term) restoration of trees that were removed in the construction of the proposed building and | **Low** | Habitat loss for small animals |

| | | | | |
|---|---|---|---|---|
| | | associated infrastructure<br>Exotic Vegetation<br>• All exotic vegetation must be removed from site.<br>• Alien vegetation on the site will need to be controlled in terms of Government Notice R1048.<br>• The contractor should be responsible for implementing a programme of weed control (particularly in areas where soil has been disturbed); and grassing of any remaining stockpiles to prevent weed invasion.<br>• The spread of exotic species occurring throughout the site should be controlled.<br><br>Herbicides<br>• Herbicide use shall only be allowed with the approval of the developer and according to contract specifications. The application shall be according to set specifications and under supervision of a qualified technician. The possibility of leaching into the surrounding environment shall be properly investigated and only environmentally friendly herbicides shall be used.<br><br>FAUNA<br>• The contractor as well as his construction workers must be sympathetic towards any fauna | | |

| | | | | |
|---|---|---|---|---|
| | | present on site.<br>• All construction staff must attend a training workshop during which the dangers of certain faunal species (especially snakes) will be explained. This workshop must be conducted by a qualified personnel. Workers must be instructed not to kill any snakes encountered on the site, but rather to call a suitably qualified park person to remove it off the site. | | |
| **TRAFFIC**<br>• If vehicles are not maintained, it may lead to contamination and unnecessary noise.<br>• Slow moving vehicles, if utilizing public access routes, could cause congestion at peak visitor times.<br>• If delivery of equipment and materials are not planned carefully it may lead to a visual and noise impacts | **Medium** | • Delivery of equipment must be undertaken with the minimum reasonable amount of trips.<br>• Planning of site delivery hours must be scheduled to avoid weekends and evenings, in so far as possible.<br>• Wheel washing and damping down of un surfaced roads must be implemented to reduce dust.<br>• Routes should be clearly defined as not to endanger fauna, flora and residents.<br>• Damping down of roads and wheel | **Low** | This may expose workers to dangers related to noise from unmaintained vehicles |

| | | | | |
|---|---|---|---|---|
| | | washing should be done using water with discretion, so as not to waste water unnecessarily.<br>• Planning of access routes to the site for construction purposes shall be done in conjunction between the Contractor and the developer. All agreements reached should be documented and no verbal agreements should be made. The Contractor shall properly mark all access roads. Roads not to be used shall be marked with a “NO ENTRY" sign.<br>• A site speed limit of 20km/h must not be exceeded. | | |
| **AIR QUALITY**<br>• Short-term negative impacts on the air quality will occur from dust and exhaust fumes during construction. | **Medium** | Dust Control:<br>• Wheel washing and damping down of unsurfaced and unvegetated areas, taking water saving into account<br>• Retention of vegetation where possible will reduce dust travel.<br>• Excavations and other clearing activities must only be done during agreed | Low | This may expose workers to dangers of inhaling dust which will be a problem to their health in a long term |

| | | | | |
|---|---|---|---|---|
| | | working times and permitting weather conditions to avoid drifting of sand and dust into adjacent areas.<br>• Any complaints or claims emanating from the lack of dustcontrol shall be attended to immediately by the Contractor and ECO. | | |
| GROUNDWATER AND STORMWATER • Local groundwater quality deterioration due to oil and fuel spills.<br>• Stormwater may carry pollutants to other parts of the site if not carefully controlled.<br>• Fatal flow during the operation of the cemetery may also contaminate groundwater | **Low** | Groundwater:<br>• Water usage, land use, waste management, and on-site sanitation associated with the proposed new development must be designed and managed so as not to impact, insofar as possible negatively on the groundwater resources on the site.<br>• Facilities for the collection and disposal of waste on the site should occur in sealed surfaces which would ensure that there is no waste entering the soil profile.<br>• Regular water samples will be collected periodically to determine the groundwater quality.<br>Hydrology and Stormwater:<br>• The site must be managed in order to prevent pollution of drains, groundwater, due to suspended solids, silt or chemical pollutants. • Promote water saving mind set with construction workers in order to ensure less water wastage.<br>• Grids / Litter traps should be placed at | **Low** | If stormwater is not managed properly it will cause erosion to the environment. On the other hand, if groundwater is not properly looked after, it may cause freshwater contamination |

| | | | | |
|---|---|---|---|---|
| | | the entry point to drains and should be cleaned on a regular basis | | |
| WASTE GENERATION<br>• Increased waste generation during construction and operational phases. | **Medium** | • Care should be taken not to dump waste indiscriminately as this could have a negative impact on the ecosystem and may lead to injury to humans and animals. Construction Rubble: • All rubble must either be used on site as part of the existing development or must be taken off the site and disposed off at an approved site. • Rubble must not be dumped on the ground but must be placed within a skip bin for regular removal, insofar as possible. Litter Management: • Refuse bins must be placed at strategic positions to ensure that litter does not accumulate within the construction site. These should be kept covered and arrangements made for them to be collected regularly from the site. • A housekeeping team should be appointed to regularly maintain the litter and rubble situation on the construction site. • Waste disposal will need to take place in terms of Section 20 of the Environment Conservation Act (Act No. 73 of 1989). • Littering by the employees of the Contractor shall not be allowed under any | **Low** | If not properly managed may cause unpleasant smell in the surroundings. Rubble may cause harm to animals and human beings |

| | | | | |
|---|---|---|---|---|
| | | circumstances. The ECO shall monitor the neatness of the construction site. | | |
| | | | | |

**Alternative 1** ***(REPEAT THIS TABLE FOR EACH ALTERNATIVE)***

| **Potential impacts:** | **Significance rating of impacts (positive or negative):** | **Proposed mitigation:** | **Significance rating of impacts after mitigation:** | **Risk of the impact** and **mitigation not being implemented** |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | **N/A** | | |
| | | | | |
| | | | | |
| | | | | |

**No Go**

| **Potential impacts:** | **Significance rating of impacts (positive or negative):** | **Proposed mitigation:** | **Significance rating of impacts after mitigation:** | **Risk of the impact** and **mitigation not being implemented** |
|---|---|---|---|---|
| | | | | |
| | | **N/A** | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

| |
|---|
| **N/A** |

Describe any gaps in knowledge or assumptions made in the assessment of the environment and the impacts associated with the proposed development.

| |
|---|
| **N/A** |

## 3. IMPACTS THAT MAY RESULT FROM THE DECOMISSIONING AND CLOSURE PHASE

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a

result of the decommissioning and closure phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

**Proposal**

| **Potential impacts:** | **Significance rating of impacts(positive or negative):** | **Proposed mitigation:** | **Significance rating of impacts after mitigation:** | **Risk of the impact and mitigation not being implemented** |
|---|---|---|---|---|
| Visual Environment<br>• The presence of graves will distort the natural visual environment | **Medium** | • Indigenous trees will be planted around the cemetery to shade off graves from the public.<br>• Landscaping and maintenace will continue to keep the site clean<br>• A wall surrounding the cemetery will not be removed and will constantly be maintained and repaired if the need arises. | **Low** | It becomes a crime zone |
| Groundwater<br>• There is a possibility of groundwater contamination | **Low** | • Water samples will be taken for testing on a periodic bases to check the water chemistry and bacteria in order to determine if the groundwater is being contaminated and to figure out necessary precautions and measures to avoid or reduce contamination | **Low** | There will be spread of diseases such as cholera if the groundwater is not properly monitored |
| Socio-Economic<br>• Loss of burial space<br>• Loss of employment | **High** | • A plan will be adopted to absorb some of the abourers to other existing cemeteries around the area | **Medium** | Loss space to bury in future |
| Health and Safety<br>• If the | **Low** | • Although not much is known | **Low** | Spread of diseases |

| | | | | |
|---|---|---|---|---|
| cemetery is not properly looked after, a problem of Phorid flies may occur on the cemetery. | | regarding the impacts of phorid flies on human health, good housekeeping of the cemetery is necessary to avoid flies. | | |
| Security<br>• Thieves might dig up corpses for muthi purposes or looking for valuables | **Low** | • The cemetery will have lighting which will provide visibility during the night and security personnel will guard the cemetery during the day and at night | **Low** | It will affect local cultural values and respect for the community members |
| | | | | |

**Alternative 1**

| **Potential impacts:** | **Significance rating of impacts(positive or negative):** | **Proposed mitigation:** | **Significance rating of impacts after mitigation:** | **Risk of the impact** and **mitigation not being implemented** |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | **N/A** | | |
| | | | | |
| | | | | |
| | | | | |

**Alternative 2**

| **Potential impacts:** | **Significance rating of impacts (positive or negative):** | **Proposed mitigation:** | **Significance rating of impacts after mitigation:** | **Risk of the impact** and **mitigation not being implemented** |
|---|---|---|---|---|
| | | **N/A** | | |
| | | | | |
| | | | | |
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|---|---|---|---|---|
| | | | | |
| | | | | |

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

**N/A**

Where applicable indicate the detailed financial provisions for rehabilitation, closure and ongoing post decommissioning management for the negative environmental impacts.

**N/A**

## 4. CUMULATIVE IMPACTS

Describe potential impacts that, on their own may not be significant, but is significant when added to the impact of other activities or existing impacts in the environment. Substantiate response:

During operation there could be a possibility of groundwater pollution due to human body decomposition
. • Employment creation could improve a few household incomes in the long term

## 5. ENVIRONMENTAL IMPACT STATEMENT

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

**Proposal**

With our experience in dealing with similar activities in such environments we do not foresee any major negative environmental impacts, however it should be noted that the identified impacts have the potential to environmentally degrade the site if not properly managed and therefore we recommend the EMP should be implemented and be treated as a binding document on site. The site is the suitable for the proposed development and the construction activities would pose less harm to the well-being of the surrounding industries.

**Alternative 1**

**N/A**

**Alternative 2**

**N/A**

**No-go (compulsory)**

This will involve no development of any infrastructure and will present both direct and indirect negative environmental and socio-economic impacts such as:

- Lower capital investment in the area.
- No employment opportunities will be created.
- Unemployment will result in high levels of crime in the area
- Shortage of burial space

## 6. IMPACT SUMMARY OF THE PROPOSAL OR PREFERRED ALTERNATIVE

**For proposal:**

The proposal is the expansion of a cemetery on portion 5 of Foch, 150 /IQ in Kokosi, Fochvile

For alternative:

**N/A**

Having assessed the significance of impacts of the proposal and alternative(s), please provide an overall summary and reasons for selecting the proposal or preferred alternative.

The preferred proposal will:

- Provide job opportunities close in and around the area
- Will provide burial ground for the local communities
- Will improve household income in the local community
- The site has suitable geological structure and flat terrains that will suit the establishment of a cemetery will very minimum environmental impacts.

## 7. SPATIAL DEVELOPMENT TOOLS

Indicate the application of any spatial development tool protocols on the proposed development and the outcome thereof.

In Spatial development tools, planning tools such as GIS, remote sensing and mapping for data management, analysis, modelling and decision-making are going to be utilised in the managing of the cemetery.

## 8. RECOMMENDATION OF THE PRACTITIONER

| | | |
|---|---|---|
| Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the Environmental Assessment Practitioner as bound by professional ethical standards and the code of conduct of **EAPASA).** | **YES** | |

If "NO", indicate the aspects that require further assessment before a decision can be made (list the aspects that require further assessment):

**N/A**

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

| |
|---|
| The **EMP** should be available on site at all times during the construction and rehabilitation phases and should be strictly adhered to. |
| The appointed Environmental Control Officer for the development must ensure that the **EMP** is being adhered to during construction and rehabilitation phases. |
| Quarterly Environmental Monitoring Reports should be submitted to **GDARD** during construction and rehabilitation phase. |

## 9. THE NEEDS AND DESIREBILITY OF THE PROPOSED DEVELOPMENT

(as per notice 792 of 2012, or the updated version of this guideline)

**NEED ('Timing'):**

**Question 1**: Is the land use (associated with the activity being applied for) considered within the timeframe intended by the existing approved Spatial Development Framework (SDF) agreed to by the relevant environmental authority? (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP).

**Answer:**

**Yes**

The Planning documents of Merafong Local Municipality consider the expansion of cemetery in Kokosi as imperative. The need for the project exits, as the expansion of cemetery is required because the existing cemetery is about to reach its full capacity.

**Question 2**: Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occurs here at this point in time?

**Answer: No**
The town/area will expand, but Yes, the activity may result in availability of burial site

**Question 3:** Does the community/area need the activity and the associated land use concerned (is it a societal priority)? This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate)

**Answer: Yes**

The expansion of cemetery is required because the existing cemetery is about to reach its full capacity.

**Question 4**: 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?

**Answer**:
**Yes**

The existing infrastructure will be used by community to bury the loved ones.

**Question 5**: Is this development provided for in the infrastructure planning of the municipality, and if

not what will the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)?
**Answer**: **Yes**

The cemetery is being funded by Merafong Local Municipality.

**DESIRABILITY ('placing'):**

**Question 6:** Is the development the best practicable environmental option for this land/site?

**Answer:** To be determined by Basic Assessment Process as is it easy at the moment there no other option.

The specialist studies to be conducted during the BA process and will give a clear indication of environmental options.

**Question 7**: Would the approval of this application compromise the integrity of the existing approved and credible municipal IDP and SDF as agreed to by the relevant authorities.

**Answer**: No, all approvals are up to a development of a certain area on the same time remedying some negative social impacts.

**Question 8:** Would the approval of this application compromise the integrity of the existing environmental management priorities for the area (e.g. as defined in EMFs), and if so, can it be justified in terms of sustainability considerations?

**Answer: No**

**Question 9**: Do location factors favour this land use (associated with the activity applied for) at this place?

(This relates to the contextualization of the proposed land use on this site within its broader context).

**Answer:** Yes

The location is reserved for the expansion of cemetery.

**Question 10:** How will the activities or the land use associated with the activity applied for, impact on sensitive natural and cultural areas (built and rural/natural environment)?

**Answer:** The place becomes an honored and protected place in terms of cultural values in addition, Basic Assessment Report (BAR) will determine the potential impact on the environment and if negative impacts are identified, mitigation measures will be proposed.

**Question 11:** How will the development impact on people's health and wellbeing (e.g. in terms of noise, odours, visual character, and sense of place, etc.)?

**Answer:** No negative impacts are anticipated regarding visual, noise or odours during the operational phase of the project. Exhaust fumes may be distributed into the area where at present

these vehicles make use of other roads that are further away from the study area.

**Question 12**: Will the proposed land use result in unacceptable cumulative impacts?

**Answer: No,** the project is not expected to have an unacceptable cumulative impact. The project will result in positive impacts in terms of an improved access. However, the BAR will determine the full extent of impacts and propose mitigation measures if required.

## 10. THE PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS REQUIRED

*CONSIDER WHEN THE ACTIVITY IS EXPECTED TO BE CONCLUDED*

Preparation on other related permits such water use licence if any

## 11. ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)

(must include post construction monitoring requirements and when these will be concluded)

If the EAP answers "Yes" to Point 7 above then an EMPr is to be attached to this report as an Appendix

| | |
|---|---|
| EMPr attached | **YES** |

# SECTION F: APPENDIXES

The following appendixes must be attached as appropriate (this list is inclusive, but not exhaustive):

It is required that if more than one item is enclosed that a table of contents is included in the appendix

Appendix **A:** Site plan(s) – *(must include a scaled layout plan of the proposed activities overlain on the site sensitivities indicating areas to be avoided including buffers)*

Appendix **B**: Photographs

Appendix **C**: Facility illustration(s)

Appendix **D**: Route position information

Appendix **E**: Public participation information

Appendix **F**: Water use license(s) authorisation, SAHRA information, service letters from municipalities, water supply information

Appendix **G**: Specialist reports

Appendix **H**: EMPr

Appendix **I**: Other information