Cultural heritage impact assessment for THE PROPOSED LEWENDE WOORD DEVELOPMENT ON PORTION 123 OF PORTION 28 OF THE FARM VLAKFONTEIN 523JR, KUNGWINI LOCAL MUNICIPALITY, GAUTENG PROVINCE

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Report No:	2016/JvS/037
Status:	Final
Revision No:	0
Date:	May 2016

## Prepared for:

LEAP Representative:	Ms N Sithole
Postal Address:	P O Box 13185, Hatfield, 0028
Tel:	012 343 2751
E-mail:	env@leapenviro.co.za

## Prepared by:

J van Schalkwyk (D Litt et Phil), Heritage Consultant ASAPA Registration No.: 164 Principal Investigator: Iron Age, Colonial Period, Industrial Heritage

Postal Address:	62 Coetzer Avenue, Monument Park, 0181
Mobile:	076 790 6777
Fax:	086 611 3902
E-mail:	jvschalkwyk@mweb.co.za

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## **Declaration:**

I, J.A. van Schalkwyk, declare that I do not have any financial or personal interest in the proposed development, nor its developers or any of their subsidiaries, apart from the provision of heritage assessment and management services, for which a fair numeration is charged.

J A van Schalkwyk (D Litt et Phil) Heritage Consultant May 2016

## EXECUTIVE SUMMARY

## CULTURAL HERITAGE IMPACT ASSESSMENT FOR THE PROPOSED LEWENDE WOORD DEVELOPMENT ON PORTION 123 OF PORTION 28 OF THE FARM VLAKFONTEIN 523JR, KUNGWINI LOCAL MUNICIPALITY, GAUTENG PROVINCE

It is proposed to develop on Portion 123 of Portion 28 of the farm Vlakfontein 523JR IN THE Kungwini Local Municipality of Gauteng Province.

In accordance with Section 38 of the NHRA, an independent heritage consultant was appointed by Leap Environmental Consultants to conduct a cultural heritage assessment to determine if the proposed development would have an impact on any sites, features or objects of cultural heritage significance.

The cultural landscape qualities of the region is made up of a pre-colonial element consisting of limited Stone Age and Iron Age occupation, as well as a much later colonial (farmer) component, which gave rise to an urban component.

#### Impact assessment

Impact analysis of cultural heritage resources under threat of the proposed development, is based on the present understanding of the development:

• As no sites, features or objects of cultural significance are known to exist in the development area, there would be no impact as a result of the proposed development.

#### Reasoned opinion as to whether the proposed activity should be authorised:

• From a heritage point of view it is recommended that the proposed development be allowed to continue.

#### Conditions for inclusion in the environmental authorisation:

 Should archaeological sites or graves be exposed during construction work, it must immediately be reported to a heritage practitioner so that an investigation and evaluation of the finds can be made.

J A van Schalkwyk Heritage Consultant May 2016

# TECHNICAL SUMMARY

Property details						
Province	Gaut	eng				
Magisterial district	Bron	khorstspruit				
Local municipality	Kung	jwini				
Topo-cadastral map	2528DC					
Farm name	Vlakfontein 523JR					
Closest town	Bronkhorstspruit					
Coordinates	Cent	re point				
	No	Latitude	Longitude	No	Latitude	Longitude
	1	S 25.87774	E 28.70086			

Development criteria in terms of Section 38(1) of the NHR Act	Yes/No
Construction of road, wall, power line, pipeline, canal or other linear form of	No
development or barrier exceeding 300m in length	
Construction of bridge or similar structure exceeding 50m in length	No
Development exceeding 5000 sq m	Yes
Development involving three or more existing erven or subdivisions	No
Development involving three or more erven or divisions that have been	No
consolidated within past five years	
Rezoning of site exceeding 10 000 sq m	Yes
Any other development category, public open space, squares, parks, recreation	No
grounds	

Development	
Description	-
Project name	Lewende Woord

Land use	
Previous land use	Farming
Current land use	Farming

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## **GLOSSARY OF TERMS AND ABBREVIATIONS**

#### TERMS

**Study area:** Refers to the entire study area as indicated by the client in the accompanying Fig. 1 - 2.

**Stone Age:** The first and longest part of human history is the Stone Age, which began with the appearance of early humans between 3-2 million years ago. Stone Age people were hunters, gatherers and scavengers who did not live in permanently settled communities. Their stone tools preserve well and are found in most places in South Africa and elsewhere.

Early Stone Age	2 000 000 - 150 000 Before Present
Middle Stone Age	150 000 - 30 000 BP
Later Stone Age	30 000 - until c. AD 200

**Iron Age:** Period covering the last 1800 years, when new people brought a new way of life to southern Africa. They established settled villages, cultivated domestic crops such as sorghum, millet and beans, and they herded cattle as well as sheep and goats. As they produced their own iron tools, archaeologists call this the Iron Age.

Early Iron Age		AD	200 - AD 900
Middle Iron Age		AD	900 - AD 1300
Late Iron Age		AD	1300 - AD 1830

Historical Period: Since the arrival of the white settlers - c. AD 1840 - in this part of the country.

#### **ABBREVIATIONS**

ADRC	Archaeological Data Recording Centre
ASAPA	Association of Southern African Professional Archaeologists
CS-G	Chief Surveyor-General
EIA	Early Iron Age
ESA	Early Stone Age
LIA	Late Iron Age
LSA	Later Stone Age
HIA	Heritage Impact Assessment
MSA	Middle Stone Age
NASA	National Archives of South Africa
NHRA	National Heritage Resources Act
PHRA	Provincial Heritage Resources Agency
SAHRA	South African Heritage Resources Agency

## CULTURAL HERITAGE IMPACT ASSESSMENT FOR THE PROPOSED LEWENDE WOORD DEVELOPMENT ON PORTION 123 OF PORTION 28 OF THE FARM VLAKFONTEIN 523JR, KUNGWINI LOCAL MUNICIPALITY, GAUTENG PROVINCE

## 1. INTRODUCTION

It is proposed to develop on Portion 123 of Portion 28 of the farm Vlakfontein 523JR IN THE Kungwini Local Municipality of Gauteng Province.

South Africa's heritage resources, also described as the 'national estate', comprise a wide range of sites, features, objects and beliefs. However, according to Section 27(18) of the National Heritage Resources Act (NHRA), No. 25 of 1999, no person may destroy, damage, deface, excavate, alter, remove from its original position, subdivide or change the planning status of any heritage site without a permit issued by the heritage resources authority responsible for the protection of such site.

In accordance with Section 38 of the NHRA, an independent heritage consultant was appointed by Leap Environmental Consultants to conduct a cultural heritage assessment to determine if the proposed development would have an impact on any sites, features or objects of cultural heritage significance.

This report forms part of the Environmental Impact Assessment (EIA) as required by the EIA Regulations in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) as amended and is intended for submission to the South African Heritage Resources Agency (SAHRA).

## 2. TERMS OF REFERENCE

The aim of a full HIA investigation is to provide an informed heritage-related opinion about the proposed development by an appropriate heritage specialist. The objectives are to identify heritage resources (involving site inspections, existing heritage data and additional heritage specialists if necessary); assess their significances; assess alternatives in order to promote heritage conservation issues; and to assess the acceptability of the proposed development from a heritage perspective.

The result of this investigation is a heritage impact assessment report indicating the presence/ absence of heritage resources and how to manage them in the context of the proposed development.

Depending on SAHRA's acceptance of this report, the developer will receive permission to proceed with the proposed development, on condition of successful implementation of proposed mitigation measures.

## 2.1 Scope of work

The aim of this study is to determine if any sites, features or objects of cultural heritage significance occur within the boundaries of the area where the development is to take place.

This includes:

- Conducting a desk-top investigation of the area;
- A visit to the proposed development site,

The objectives were to:

- Identify possible archaeological, cultural and historic sites within the proposed development areas;
- Evaluate the potential impacts of construction, operation and maintenance of the proposed development on archaeological, cultural and historical resources;
- Recommend mitigation measures to ameliorate any negative impacts on areas of archaeological, cultural or historical importance.

## 2.2 Limitations

The investigation has been influenced by the following factors:

- Access to the various properties could not be attained.
- It is assumed that the description of the proposed project, provided by the client, is accurate.
- No subsurface investigation (i.e. excavations or sampling) were undertaken, since a permit from SAHRA is required for such activities.
- It is assumed that the public consultation process undertaken as part of the Environmental Impact Assessment (EIA) is sufficient and that is does not have to be repeated as part of the heritage impact assessment.
- The unpredictability of buried archaeological remains.
- This report does not consider the palaeontological potential of the site.

## 3. HERITAGE RESOURCES

#### 3.1 The National Estate

The NHRA (No. 25 of 1999) defines the heritage resources of South Africa which are of cultural significance or other special value for the present community and for future generations that must be considered part of the national estate to include:

- places, buildings, structures and equipment of cultural significance;
- places to which oral traditions are attached or which are associated with living heritage;
- historical settlements and townscapes;
- landscapes and natural features of cultural significance;
- geological sites of scientific or cultural importance;
- archaeological and palaeontological sites;
- graves and burial grounds, including
  - o ancestral graves;
  - royal graves and graves of traditional leaders;
  - graves of victims of conflict;
  - o graves of individuals designated by the Minister by notice in the Gazette;
  - o historical graves and cemeteries; and
  - other human remains which are not covered in terms of the Human Tissue Act, 1983 (Act No. 65 of 1983);
- sites of significance relating to the history of slavery in South Africa;
- movable objects, including-

- objects recovered from the soil or waters of South Africa, including archaeological and palaeontological objects and material, meteorites and rare geological specimens;
- objects to which oral traditions are attached or which are associated with living heritage;
- ethnographic art and objects;
- o military objects;
- o objects of decorative or fine art;
- o objects of scientific or technological interest; and
- books, records, documents, photographic positives and negatives, graphic, film or video material or sound recordings, excluding those that are public records as defined in section 1(xiv) of the National Archives of South Africa Act, 1996 (Act No. 43 of 1996).

#### 3.2 Cultural significance

In the NHRA, Section 2 (vi), it is stated that "cultural significance" means aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technological value or significance. This is determined in relation to a site or feature's uniqueness, condition of preservation and research potential.

According to Section 3(3) of the NHRA, a place or object is to be considered part of the national estate if it has cultural significance or other special value because of

- its importance in the community, or pattern of South Africa's history;
- its possession of uncommon, rare or endangered aspects of South Africa's natural or cultural heritage;
- its potential to yield information that will contribute to an understanding of South Africa's natural or cultural heritage;
- its importance in demonstrating the principal characteristics of a particular class of South Africa's natural or cultural places or objects;
- its importance in exhibiting particular aesthetic characteristics valued by a community or cultural group;
- its importance in demonstrating a high degree of creative or technical achievement at a particular period;
- its strong or special association with a particular community or cultural group for social, cultural or spiritual reasons;
- its strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa; and
- sites of significance relating to the history of slavery in South Africa.

A matrix was developed whereby the above criteria were applied for the determination of the significance of each identified site (see Appendix 1). This allowed some form of control over the application of similar values for similar identified sites.

## 4. STUDY APPROACH AND METHODOLOGY

#### 4.1 Extent of the Study

This survey and impact assessment covers the area as presented in Section 6 below and illustrated in Figure 2.

## 4.2 Methodology

#### 4.2.1.1 Survey of the literature

A survey of the relevant literature was conducted with the aim of reviewing the previous research done and determining the potential of the area. In this regard, various anthropological, archaeological and historical sources were consulted – see list of references in Section 10.

 Information on events, sites and features in the larger region were obtained from these sources.

#### 4.2.1.2 Data bases

The Heritage Atlas Database, the Environmental Potential Atlas, the Chief Surveyor General and the National Archives of South Africa were consulted.

• Database surveys produced a number of sites located in the larger region of the proposed development.

#### 4.2.1.3 Other sources

Aerial photographs and topocadastral and other maps were also studied - see the list of references below.

• Information of a very general nature were obtained from these sources

## 4.2.2 Field survey

The field survey was done according to generally accepted archaeological practices, and was aimed at locating all possible sites, objects and structures. The area that had to be investigated was identified by Leap Environmental by means of maps and .k*ml* files indicating the development area. This was loaded onto a Nexus 7 tablet and used in Google Earth during the field survey to access the areas.

The site was visited on 6 May 2016. The area was investigated by walking transects across it – see Fig. 1 below.

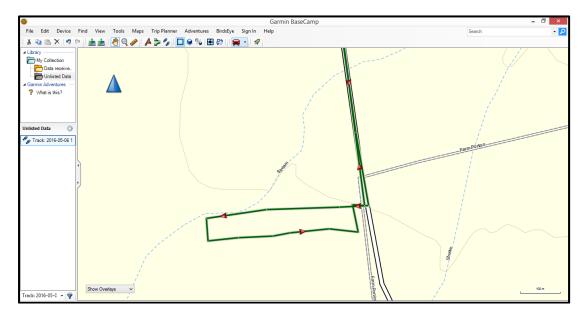


Fig. 1. Map indicating the track log of the field survey.

The following is relevant to the field survey:

• During the site visit the archaeological visibility was slightly limited by the vegetation encountered.

#### 4.2.3 Documentation

All sites, objects and structures that are identified are documented according to the general minimum standards accepted by the archaeological profession. Coordinates of individual localities are determined by means of the *Global Positioning System* (GPS) and plotted on a map. This information is added to the description in order to facilitate the identification of each locality.

The track log and identified sites were recorded by means of a Garmin Oregon 550 handheld GPS device. Photographic recording was done by means of a Canon EOS 550D digital camera.

Map datum used: Hartebeeshoek 94 (WGS84).

## 5. SITE SIGNIFICANCE AND ASSESSMENT

#### 5.1 Heritage assessment criteria and grading

The National Heritage Resources Act, Act no. 25 of 1999, stipulates the assessment criteria and grading of heritage sites. The following grading categories are distinguished in Section 7 of the Act:

- **Grade I**: Heritage resources with qualities so exceptional that they are of special national significance;
- **Grade II**: Heritage resources which, although forming part of the national estate, can be considered to have special qualities which make them significant within the context of a province or a region; and
- Grade III: Other heritage resources worthy of conservation on a local authority level.

A matrix was developed whereby the criteria, as set out in Sections 3(3) and 7 of the NHRA, were applied for each identified site (see Appendix 1). This allowed some form of control over the application of similar values for similar sites.

The occurrence of sites with a Grade I significance will demand that the development activities be drastically altered in order to retain these sites in their original state. For Grade II and Grade III sites, the applicable of mitigation measures would allow the development activities to continue.

## 5.2 Methodology for the assessment of potential impacts

All impacts identified during the EIA stage of the study will be classified in terms of their significance. Issues were assessed in terms of the following criteria:

- The nature, a description of what causes the effect, what will be affected and how it will be affected;
- The physical **extent**, wherein it is indicated whether:
  - o 1 the impact will be limited to the site;
  - 2 the impact will be limited to the local area;

- 3 the impact will be limited to the region;
- 4 the impact will be national; or
- o 5 the impact will be international;
- The duration, wherein it is indicated whether the lifetime of the impact will be:
  - 1 of a very short duration (0–1 years);
  - 2 of a short duration (2-5 years);
  - 3 medium-term (5–15 years);
  - 4 long term (> 15 years); or
  - o 5 permanent;
- The magnitude of impact, quantified on a scale from 0-10, where a score is assigned:
  - 0 small and will have no effect;
  - 2 minor and will not result in an impact;
  - 4 low and will cause a slight impact;
  - o 6 moderate and will result in processes continuing but in a modified way;
  - o 8 high, (processes are altered to the extent that they temporarily cease); or
  - very high and results in complete destruction of patterns and permanent cessation of processes;
- The **probability** of occurrence, which describes the likelihood of the impact actually occurring and is estimated on a scale where:
  - 1 very improbable (probably will not happen;
  - 2 improbable (some possibility, but low likelihood);
  - 3 probable (distinct possibility);
  - 4 highly probable (most likely); or
  - o 5 definite (impact will occur regardless of any prevention measures);
- The **significance**, which is determined through a synthesis of the characteristics described above (refer formula below) and can be assessed as low, medium or high;
- The status, which is described as either positive, negative or neutral;
- The degree to which the impact can be reversed;
- The degree to which the impact may cause irreplaceable loss of resources; and
- The degree to which the impact can be mitigated.

The **significance** is determined by combining the criteria in the following formula:

- $S = (E+D+M) \times P$ ; where
  - S = Significance weighting
  - E = Extent
  - D = Duration
  - M = Magnitude
  - P = Probability

The significance weightings for each potential impact are calculated as follows:

## Table 1: Significance ranking

Significance of impact								
Extent	Duration	Magnitude	Probability	Significance	Weight			
_		_	_	_	_			

Points	Significant Weighting	Discussion
< 30 points	Low	where this impact would not have a direct influence on the decision to develop in the area
31-60 points	Medium	where the impact could influence the decision to develop in the area unless it is effectively mitigated
> 60 points	High	where the impact must have an influence on the decision process to develop in the area

## 6. PROJECT DESCRIPTION

## 6.1 Site location

The application site is located to the north of the Bronkhorstspruit Dam in the Kungwini Local Municipality of Gauteng Province. For more information, please see the Technical Summary presented above (p. iii).

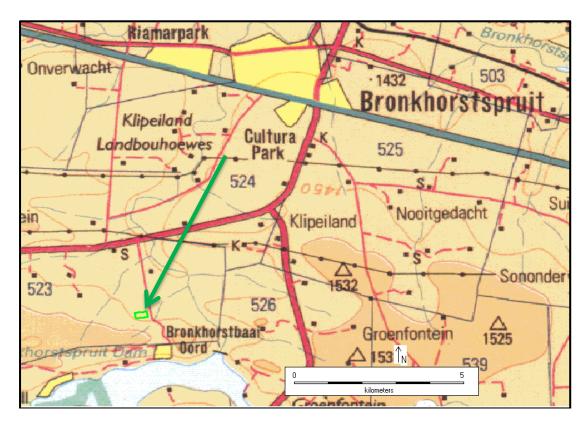


Fig. 2. Location of the study area (green arrow) in regional context. (Map 2528: Chief Surveyor-General)

## 6.2 Development proposal

Apart from the locality plan (Fig. 3), no information on the proposed development was available during the site visit.



Fig. 3. Layout of the proposed development, outlined in red. (Image: Google Earth)

## 7. DESCRIPTION OF THE AFFECTED ENVIRONMENT

## 7.1 Site description

The geology is made up of quartzite, changing to shale to the north of the study area. The original vegetation is classified as Moist Cool Highveld Grassland. However, most of the area was used for agricultural activities, which would have destroyed any heritage features that might have occurred here in the past. From the aerial photograph (Fig. 3), it can be determined that large sections of the area have been used as agricultural field.

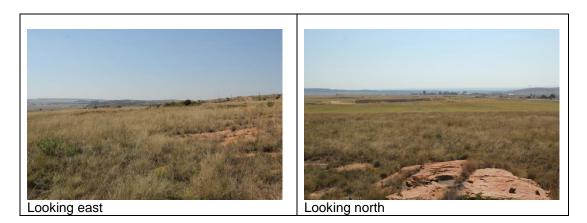


Fig. 4. Views over the study area.

## 7.2 Overview of the region

The aim of this section is to present an overview of the history of the larger region in order to eventually determine the significance of heritage sites identified in the study area, within the context of their historic, aesthetic, scientific and social value, rarity and representivity – see Section 3.2 and Appendix 1 for more information.

The cultural landscape qualities of the region is made up of a pre-colonial element consisting of limited Stone Age and Iron Age occupation, as well as a much later colonial (farmer) component, which gave rise to an urban component.

## 7.2.1 Stone Age

Stone tools dating to the various phases of the Stone Age occur in some areas of the larger region. Stone Age tools associated with the Early and Middle Stone Age are common, especially along the spruits and rivers where they cut through ridges and at the lower parts of the ridges and larger outcrops. These are viewed as find spots rather than sites per se. That means that as most of these are surface finds, they are viewed to be out of context and do not have any significance. Only a few stratified sites are known in the Magaliesberg range, but even these have little significance as the deposits have either eroded away, or have been impacted upon by later occupants of the shelters.

#### 7.2.2 Iron Age

Although the Early Iron Age dates back to c. AD 200, such sites are not known from the larger region. The closest one it the famous Broederstroom site locate to the south of Hartebeestpoort dam in North West Province.

Sites dating to the Late Iron Age are found all over the region as well as the study area. Some of them can be related to the Tswana-speakers, whereas others to the Ndebele-speakers and possibly a few also to the Ndebele of Mzilikazi (see Van Schalkwyk et al 1996; Van Schalkwyk et al 1999 & Van Vuuren 2006).

The Iron Age sites tend to cluster in the Bronberg as well as on the more open flatlands, especially in areas where outcrops (dolorite, etc.) occur. It is possible, although not yet proven, that this distinction can be linked to the difference between the Sotho and Ndebele settlement preference referred to above. South of the study area, a number of large stone walled structures are located on a quartzite ridge. These in all probability were settled by Tswana speakers and date to the period after 1600.

#### 7.2.3 Historical period

Early white farmers selected farms (such as Rietfontein and Zwavelpoort) and then provided a description of the farm to the local landdrost, who noted the detail in a registration book and gave the claimant a copy. Claimed land was then inspected before a title and deed were issued. Since the registration of land entailed registration costs and annual land taxes, it was often delayed as long as possible. As a result, the registration of land claimed on the basis of burgher rights continued well into the 1890s.

This was also the area over which the British troops advanced during the 2<sup>nd</sup> Anglo-Boer War, before engaging in battle, on 11 and 12 June 1900, that was later to become known as the "Battle of Diamond Hill" or, the "Slag van Donkerhoek". It was one of the largest battles that

took place during the war and the remains of gun placements, trenches and fortifications can still be found, however, mostly to the west and north of the study area (Van Vollenhoven & Van den Bos 1997).

## 7.3 Identified sites

The following sites, features and objects of cultural significance were identified in the study area – see Appendix 5 for a discussion of each individual site.

In terms of Section 7 of the NHRA, all the sites currently known or which are expected to occur in the study area are evaluated to have a grading as identified in the table below.

IDENTIFIED HERITAGE RESOURCES					
NHRA category	Number	Coordinates	Impact rating		
Formal protections (NHRA)					
National heritage site (Section 27)	None	-	-		
Provincial heritage site (Section 27)	None	-	-		
Provisional protection (Section 29)	None	-	-		
Listed in heritage register (Section 30)	None	-	-		
General protections (NHRA)					
Structures older than 60 years (Section 34)	None	-	-		
Archaeological site or material (Section 35)	None	-	-		
Palaeontological site or material (Section 35)	None	-	-		
Graves or burial grounds (Section 36)	None	-	-		
Public monuments or memorials (Section 37)	None	-	-		
Other					
Any other heritage resources (describe)	None	-	-		

Table 2. Summary of identified heritage resources in the study area.

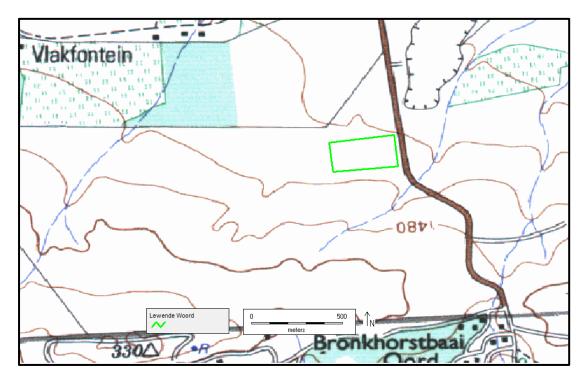


Fig. 5. Identified site in the study area.

## 7.3.1 Stone Age

• No sites, features or objects dating to the Stone Age were identified in the study area.

## 7.3 2 Iron Age

• No sites, features or objects dating to the Iron Age were identified in the study area.

## 7.3.3 Historic period

• No sites, features or objects dating to the historic period were identified in the study area.

## 7.4 Impact assessment

Impact analysis of cultural heritage resources under threat of the proposed development, is based on the present understanding of the development:

• As no sites, features or objects of cultural significance are known to exist in the study area, there would be no impact as a result of the proposed development.

## 8. MANAGEMENT MEASURES

Heritage sites are fixed features in the environment, occurring within specific spatial confines. Any impact upon them is permanent and non-reversible. Those resources that cannot be avoided and that are directly impacted by the proposed development can be excavated/recorded and a management plan can be developed for future action. Those sites that are not impacted on can be written into the management plan, whence they can be avoided or cared for in the future.

## 8.1 Objectives

- Protection of archaeological, historical and any other site or land considered being of cultural value within the project boundary against vandalism, destruction and theft.
- The preservation and appropriate management of new discoveries in accordance with the NHRA, should these be discovered during construction activities.

The following shall apply:

- Known sites should be clearly marked in order that they can be avoided during construction activities.
- The contractors and workers should be notified that archaeological sites might be exposed during the construction activities.
- Should any heritage artefacts be exposed during excavation, work on the area where the artefacts were discovered, shall cease immediately and the Environmental Control Officer shall be notified as soon as possible;
- All discoveries shall be reported immediately to a heritage practitioner so that an investigation and evaluation of the finds can be made. Acting upon advice from these specialists, the Environmental Control Officer will advise the necessary actions to be taken;
- Under no circumstances shall any artefacts be removed, destroyed or interfered with by anyone on the site; and

• Contractors and workers shall be advised of the penalties associated with the unlawful removal of cultural, historical, archaeological or palaeontological artefacts, as set out in the National Heritage Resources Act (Act No. 25 of 1999), Section 51. (1).

## 8.2 Control

In order to achieve this, the following should be in place:

- A person or entity, e.g. the Environmental Control Officer, should be tasked to take responsibility for the heritage sites and should be held accountable for any damage.
- Known sites should be located and isolated, e.g. by fencing them off. All construction workers should be informed that these are no-go areas, unless accompanied by the individual or persons representing the Environmental Control Officer as identified above.
- In areas where the vegetation is threatening the heritage sites, e.g. growing trees pushing walls over, it should be removed, but only after permission for the methods proposed has been granted by SAHRA. A heritage official should be part of the team executing these measures.

## 9. RECOMMENDATIONS

The aim of the survey was to locate, identify, evaluate and document sites, objects and structures of cultural significance found within the area in which the development is proposed.

#### Impact assessment

Impact analysis of cultural heritage resources under threat of the proposed development, is based on the present understanding of the development:

• As no sites, features or objects of cultural significance are known to exist in the development area, there would be no impact as a result of the proposed development.

Reasoned opinion as to whether the proposed activity should be authorised:

• From a heritage point of view it is recommended that the proposed development be allowed to continue.

## Conditions for inclusion in the environmental authorisation:

 Should archaeological sites or graves be exposed during construction work, it must immediately be reported to a heritage practitioner so that an investigation and evaluation of the finds can be made.

## 10. REFERENCES

#### 10.1 Data bases

Chief Surveyor General Environmental Potential Atlas, Department of Environmental Affairs and Tourism. Heritage Atlas Database, Pretoria. National Archives of South Africa SAHRA Archaeology and Palaeontology Report Mapping Project (2009)

## 10.2 Literature

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## 10.3 Maps and aerial photographs

1: 50 000 Topocadastral maps Google Earth

# APPENDIX 1: CONVENTIONS USED TO ASSESS THE SIGNIFICANCE OF IDENTIFIED HERITAGE RESOURCES

## Significance

According to the NHRA, Section 2(vi) the **significance** of a heritage sites and artefacts is determined by it aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technical value in relation to the uniqueness, condition of preservation and research potential. It must be kept in mind that the various aspects are not mutually exclusive, and that the evaluation of any site is done with reference to any number of these.

Matrix used for assessing the significance of each identified site/feature

1. Historic value				
Is it important in the community, or pattern of history				
Does it have strong or special association with the life or work of a person, group or				
organisation of importance in history	-			
Does it have significance relating to the history of slavery				
2. Aesthetic value				
It is important in exhibiting particular aesthetic characte community or cultural group	ristics valu	ued by a		
3. Scientific value				
Does it have potential to yield information that will contribute to natural or cultural heritage	o an unders	standing of		
Is it important in demonstrating a high degree of creative or to	echnical ac	hievement		
at a particular period				
4. Social value				
Does it have strong or special association with a particular of	community	or cultural		
group for social, cultural or spiritual reasons				
5. Rarity				
Does it possess uncommon, rare or endangered aspects	of natural	or cultural		
heritage				
6. Representivity				
Is it important in demonstrating the principal characteristics o	f a particula	ar class of		
natural or cultural places or objects				
Importance in demonstrating the principal characteristics of a				
or environments, the attributes of which identify it as being characteristic of its class				
Importance in demonstrating the principal characteristics				
(including way of life, philosophy, custom, process, land-use		design or		
technique) in the environment of the nation, province, region or				
7. Sphere of Significance	High	Medium	Low	
International				
National				
Provincial				
Regional				
Local				
Specific community				
8. Significance rating of feature				
1. Low				
2. Medium				
3. High				

## APPENDIX 2. RELEVANT LEGISLATION

All archaeological and palaeontological sites, and meteorites are protected by the National Heritage Resources Act (Act no 25 of 1999) as stated in Section 35:

(1) Subject to the provisions of section 8, the protection of archaeological and palaeontological sites and material and meteorites is the responsibility of a provincial heritage resources authority: Provided that the protection of any wreck in the territorial waters and the maritime cultural zone shall be the responsibility of SAHRA.

(2) Subject to the provisions of subsection (8)(a), all archaeological objects, palaeontological material and meteorites are the property of the State. The responsible heritage authority must, on behalf of the State, at its discretion ensure that such objects are lodged with a museum or other public institution that has a collection policy acceptable to the heritage resources authority and may in so doing establish such terms and conditions as it sees fit for the conservation of such objects.

(3) Any person who discovers archaeological or palaeontological objects or material or a meteorite in the course of development or agricultural activity must immediately report the find to the responsible heritage resources authority, or to the nearest local authority offices or museum, which must immediately notify such heritage resources authority.

(4) No person may, without a permit issued by the responsible heritage resources authority-

(a) destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or palaeontological site or any meteorite;

(b) destroy, damage, excavate, remove from its original position, collect or own any archaeological or palaeontological material or object or any meteorite;

(c) trade in, sell for private gain, export or attempt to export from the Republic any category of archaeological or palaeontological material or object, or any meteorite; or (d) bring onto or use at an archaeological or palaeontological site any excavation equipment or any equipment which assist in the detection or recovery of metals or archaeological and palaeontological material or objects, or use such equipment for the recovery of meteorites.

In terms of cemeteries and graves the following (Section 36):

(1) Where it is not the responsibility of any other authority, SAHRA must conserve and generally care for burial grounds and graves protected in terms of this section, and it may make such arrangements for their conservation as it sees fit.

(2) SAHRA must identify and record the graves of victims of conflict and any other graves which it deems to be of cultural significance and may erect memorials associated with the grave referred to in subsection (1), and must maintain such memorials.

(3) No person may, without a permit issued by SAHRA or a provincial heritage resources authority-

(a) destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;

(b) destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or

(c) bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation equipment, or any equipment which assists in the detection or recovery of metals.

(4) SAHRA or a provincial heritage resources authority may not issue a permit for the destruction or damage of any burial ground or grave referred to in subsection (3)(a) unless it is satisfied that the applicant has made satisfactory arrangements for the exhumation and reinterment of the contents of such graves, at the cost of the applicant and in accordance with any regulations made by the responsible heritage resources authority. The National Heritage Resources Act (Act no 25 of 1999) stipulates the assessment criteria and grading of archaeological sites. The following categories are distinguished in Section 7 of the Act:

- **Grade I**: Heritage resources with qualities so exceptional that they are of special national significance;
- **Grade II**: Heritage resources which, although forming part of the national estate, can be considered to have special qualities which make them significant within the context of a province or a region; and
- **Grade III**: Other heritage resources worthy of conservation, and which prescribes heritage resources assessment criteria, consistent with the criteria set out in section 3(3), which must be used by a heritage resources authority or a local authority to assess the intrinsic, comparative and contextual significance of a heritage resource and the relative benefits and costs of its protection, so that the appropriate level of grading of the resource and the consequent responsibility for its management may be allocated in terms of section 8.

Presenting archaeological sites as part of tourism attraction requires, in terms 44 of the Act, a Conservation Management Plan as well as a permit from SAHRA.

(1) Heritage resources authorities and local authorities must, wherever appropriate, coordinate and promote the presentation and use of places of cultural significance and heritage resources which form part of the national estate and for which they are responsible in terms of section 5 for public enjoyment, education. research and tourism, including-

- (a) the erection of explanatory plaques and interpretive facilities, including interpretive centres and visitor facilities;
- (b) the training and provision of guides;
- (c) the mounting of exhibitions;
- (d) the erection of memorials; and
- (e) any other means necessary for the effective presentation of the national estate.

(2) Where a heritage resource which is formally protected in terms of Part I of this Chapter is to be presented, the person wishing to undertake such presentation must, at least 60 days prior to the institution of interpretive measures or manufacture of associated material, consult with the heritage resources authority which is responsible for the protection of such heritage resource regarding the contents of interpretive material or programmes.

(3) A person may only erect a plaque or other permanent display or structure associated with such presentation in the vicinity of a place protected in terms of this Act in consultation with the heritage resources authority responsible for the protection of the place.

## **APPENDIX 3. RELOCATION OF GRAVES**

If the graves are younger than 60 years, an undertaker can be contracted to deal with the exhumation and reburial. This will include public participation, organising cemeteries, coffins, etc. They need permits and have their own requirements that must be adhered to.

If the graves are older than 60 years old or of undetermined age, an archaeologist must be in attendance to assist with the exhumation and documentation of the graves. This is a requirement by law.

Once it has been decided to relocate particular graves, the following steps should be taken:

- Notices of the intention to relocate the graves need to be put up at the burial site for a
  period of 60 days. This should contain information where communities and family
  members can contact the developer/archaeologist/public-relations officer/undertaker. All
  information pertaining to the identification of the graves needs to be documented for the
  application of a SAHRA permit. The notices need to be in at least 3 languages, English,
  and two other languages. This is a requirement by law.
- Notices of the intention needs to be placed in at least two local newspapers and have the same information as the above point. This is a requirement by law.
- Local radio stations can also be used to try contact family members. This is not required by law, but is helpful in trying to contact family members.
- During this time (60 days) a suitable cemetery need to be identified close to the development area or otherwise one specified by the family of the deceased.
- An open day for family members should be arranged after the period of 60 days so that they can gather to discuss the way forward, and to sort out any problems. The developer needs to take the families requirements into account. This is a requirement by law.
- Once the 60 days has passed and all the information from the family members have been received, a permit can be requested from SAHRA. This is a requirement by law.
- Once the permit has been received, the graves may be exhumed and relocated.
- All headstones must be relocated with the graves as well as any items found in the grave.

#### Information needed for the SAHRA permit application

- The permit application needs to be done by an archaeologist.
- A map of the area where the graves have been located.
- A survey report of the area prepared by an archaeologist.
- All the information on the families that have identified graves.
- If graves have not been identified and there are no headstones to indicate the grave, these are then unknown graves and should be handled as if they are older than 60 years. This information also needs to be given to SAHRA.
- A letter from the landowner giving permission to the developer to exhume and relocate the graves.
- A letter from the new cemetery confirming that the graves will be reburied there.
- Details of the farm name and number, magisterial district and GPS coordinates of the gravesite.

## **APPENDIX 4. SPECIALIST COMPETENCY**

#### Johan (Johnny) van Schalkwyk

J A van Schalkwyk, D Litt et Phil, heritage consultant, has been working in the field of heritage management for more than 30 years. Based at the National Museum of Cultural History, Pretoria, he has actively done research in the fields of anthropology, archaeology, museology, tourism and impact assessment. This work was done in Limpopo Province, Gauteng, Mpumalanga, North West Province, Eastern Cape, Northern Cape, Botswana, Zimbabwe, Malawi, Lesotho and Swaziland. Based on this work, he has curated various exhibitions at different museums and has published more than 60 papers, many in scientifically accredited journals. During this period he has done more than 2000 impact assessments (archaeological, anthropological, historical and social) for various government departments and developers. Projects include environmental management frameworks, road-, pipeline-, and power line developments, dams, mining, water purification works, historical landscapes, refuse dumps and urban developments.

# APPENDIX 5: INVENTORY OF IDENTIFIED CULTURAL HERITAGE SITES

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