Basic cultural heritage assessment report for the PROPOSED CONSTRUCTION OF A NEW BULK WATER PIPELINE IN THE FLEURHOF REGION OF THE CITY OF JOHANNESBURG LOCAL MUNICIPALITY

BASIC CULTURAL HERITAGE ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF A NEW BULK WATER PIPELINE IN THE FLEURHOF REGION OF THE CITY OF JOHANNESBURG LOCAL MUNICIPALITY

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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.

John the

J A van Schalkwyk (D Litt et Phil) Heritage Consultant September 2013

EXECUTIVE SUMMARY

BASIC CULTURAL HERITAGE ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF A NEW BULK WATER PIPELINE IN THE FLEURHOF REGION OF THE CITY OF JOHANNESBURG LOCAL MUNICIPALITY

The City of Johannesburg proposes the construction of a new bulk water pipeline in the Fleurhof region southwest of Johannesburg.

In accordance with Section 38 of the NHRA, an independent heritage consultant was appointed by **Envirolution Consulting** to conduct a Cultural Heritage Impact Assessment (HIA) to determine if the proposed bulk water pipeline would have an impact on any sites, features or objects of cultural heritage significance.

• As no sites, features or objects of cultural heritage significance were identified in the study area, there would be no impact from the proposed development.

Therefore, from a heritage point of view we recommend that the proposed development can continue. We also recommend that if archaeological sites or graves are exposed during development activities, it should 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 September 2013

TECHNICAL SUMMARY

Property details					
Province	Gauteng Province				
Magisterial district	Johannesburg				
District municipality	City of Johannesburg				
Topo-cadastral map	2627BB				
Closest town	Roodepoort				
Farm name & no.	Roodepoort				
Portions/Holdings	-				
Coordinates	Approximate				
	1 S 26.18793 E 27.91036 2 S 26.16923 E 27.86974				

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	Yes
form of development or barrier exceeding 300m in length	
Construction of bridge or similar structure exceeding 50m in length	
Development exceeding 5000 sq m	
Development involving three or more existing erven or subdivisions	
Development involving three or more erven or divisions that have been	
consolidated within past five years	
Rezoning of site exceeding 10 000 sq m	
Any other development category, public open space, squares, parks,	
recreation grounds	

Development

Development	
Description	Development of a bulk water pipeline
Project name	Fleurhof Bulk Water Pipeline

Land use

Lana usc	
Previous land use	Urban/Vacant
Current land use	Urban/Vacant

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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 200-7	AD 900
Middle Iron Age		AD 900-7	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

BASIC CULTURAL HERITAGE ASSESSMENT FOR THE PROPOSED CONSTRUCTION OF A NEW BULK WATER PIPELINE IN THE FLEURHOF REGION OF THE CITY OF JOHANNESBURG LOCAL MUNICIPALITY

1. INTRODUCTION

The City of Johannesburg proposes the construction of a new bulk water pipeline in the Fleurhof region southwest of Johannesburg.

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 **Envirolution Consulting** to conduct a Cultural Heritage Impact Assessment (HIA) to determine if the proposed bulk water pipeline would have an impact on any sites, features or objects of cultural heritage significance.

This HIA 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) and is intended for submission to the South African Heritage Resources Agency (SAHRA).

2. TERMS OF REFERENCE

This report does not deal with development projects outside of or even adjacent to the study area as is presented in Section 5 of this report. The same holds true for heritage sites, except in a generalised sense where it is used to create an overview of the heritage potential in the larger region.

2.1 Scope of work

The aim of this assessment, broadly speaking, is to determine if any sites, features or objects of cultural heritage significance occur within the boundaries of the area where it is planned to develop the water pipeline that would prevent the project from continuing.

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:

- The unpredictability of archaeological remains occurring below the surface.
- This report does not include a paleontological review.

2.3 Assumptions

• It is assumed that the Social Impact Assessment and Public Participation Process might also result in the identification of sites, features and objects, including sites of intangible heritage potential in the development area and that these then will also have to be considered in the selection of the preferred routes.

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;
 - o 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;
 - 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 5 and as illustrated in Figure 5.

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 the list of references in Section 8 below.

• 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 was obtained from these sources.

4.2.2 Field survey

The area that had to be investigated was identified by **Envirolution Consulting** by means of maps (Fig. 1 & 3). The pipeline route was travelled as far as possible by foot, a fact that was made easy as for large sections it runs adjacent to the R41 (see Fig. 1 for the track log that was kept of the site survey).

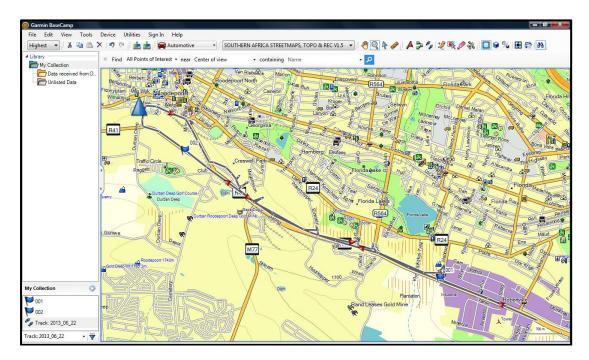


Fig. 1. Map indicating the track log of the field survey.

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.

Map datum used: Hartebeeshoek 94 (WGS84).

5. DESCRIPTION OF THE AFFECTED ENVIRONMENT

5.1 Site location

The City of Johannesburg proposes the construction of a new bulk water pipeline in the Fleurhof region southwest of Johannesburg. For more information, please see the Technical Summary presented above (p. iii).

The geology is made up of quartzite. The topography of the area is described as slightly undulating plains and the original vegetation is classified a Mixed Bushveld. None of this has remained in the region.

From the 1944 version of the 1:50 000 topocadastral map (Fig. 2) it can be deduced that this very much was a mining area with a number of mine shafts that occurred in the area. None of these still exist.

From the aerial photographs presented in Fig. 3, it can be seen that in recent years sections of the area have been impacted on by informal settlement. The images in Fig. 3 are in the region of the old Kimberley Shaft.

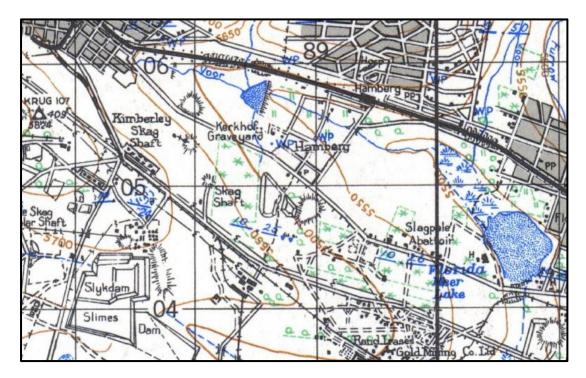


Fig. 2. The study area on the 1944 version of the 1:50 000 topocadastral map. (Map 2627BB: Chief Surveyor-General)



Fig. 3. Aerial views of the study site (2004 and 2010).



Fig. 4. Views over the study area

5.2 Development proposal

The development involves the construction of the Fleurhof bulk water pipeline in an area south of Roodepoort and north of Soweto (Fig. 5). The scope of the project is as follows:

• Construction of a water pipeline that will be approximately 5.2 km long.

The proposed pipeline route will be constructed in an area where there are already a number of water pipelines and electricity distribution lines installed (see Fig. 4).

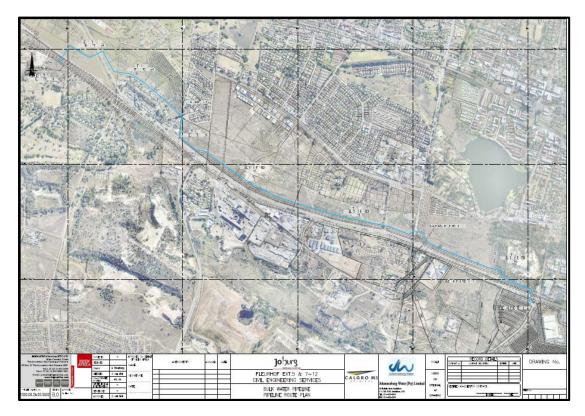


Fig. 5. Layout of the proposed development (blue line). (Map supplied by Envirolution Consulting)

5.3 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.

5.3 Regional overview

The history of larger Soweto has already been covered in a number of publications written from different perspectives, e.g. Kane-Berman (1981), Magubane (1990) and need not be repeated here.

Up until the discovery of gold, the area was largely a farming community, with a low density of human population. All of this changed with the discovery of gold during the early 1880s. Although the history of mining activities and ownership is very complex, most of what happened in the region of the study area can be associated with Crown Mines. Mining activities changed the natural landscape into a cultural landscape, with buildings, headgear,

slimes dams and infra-structural support (Handly 2004). As the mines closed down, these structures were left behind, falling into disrepair, and are vandalised. What most people do not realise is the interrelatedness of all of these. If there were not any mines in the region, the population density in the region might have been quite different from what it is today.

In October 1886 Jan G. Bantjes discovered gold on the farm Roodepoort. At that stage the farm was divided into two sections. One section was owned by Du Plessis brothers, whereas the second section was owned by a J Nel van Wyk. After the discovery of the gold, the latter laid out a township on his section of the farm, which over time grew into the larger Roodepoort town (SESA 1973:401). Some of the mines, each with a number of shafts, that were located in the larger region, are Durban Roodepoort Deep, Rand Leases Gold Mine and Consolidated Main Reef Gold Mine.

5.4 Identified sites

The following sites, features and objects of cultural significance were identified in the study area:

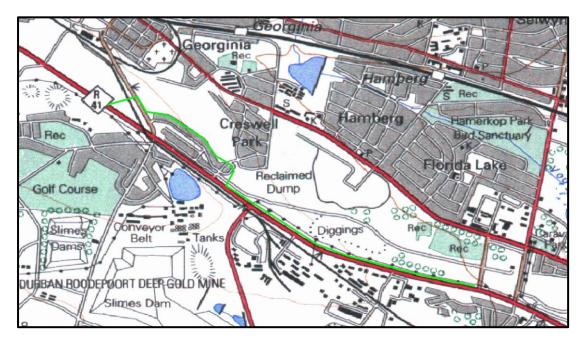


Fig. 6. The study area (green line) (Map 2627BB: Chief Surveyor-General)

5.4.1 Stone Age

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

5.4 2 Iron Age

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

5.4.3 Historic period

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

6. SITE SIGNIFICANCE AND ASSESSMENT

6.1 Heritage assessment criteria and grading

The NHRA 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, on a local authority level.

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.

6.2 Statement of significance

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 Grade III significance.

• As no sites, features or objects of cultural heritage significance were identified in the study area, there would be no impact from the proposed development.

7. RECOMMENDATIONS

The aim of this survey was to locate, identify, evaluate and document sites, objects and structures of cultural significance found within the area of the proposed development, to assess the significance thereof and to consider alternatives and plan for the mitigation of any adverse impacts.

• As no sites, features or objects of cultural heritage significance were identified in the study area, there would be no impact from the proposed development.

Therefore, from a heritage point of view we recommend that the proposed development can continue. We also recommend that if archaeological sites or graves are exposed during development activities, it should immediately be reported to a heritage practitioner so that an investigation and evaluation of the finds can be made.

8. REFERENCES

8.1 Data bases

Chief Surveyor General Environmental Potential Atlas, Department of Environmental Affairs and Tourism. Heritage Atlas Database, Pretoria. National Archives of South Africa

8.2 Literature

Acocks, J.P.H. 1975. *Veld Types of South Africa*. Memoirs of the Botanical Survey of South Africa, No. 40. Pretoria: Botanical Research Institute.

Birkholtz, P.D. 2001. *Heritage Impact Assessment Bram Fischerville Ext 7 - Rand Leases Property Development*. An unpublished report by CRM Africa on file at SAHRA as: 2001-SAHRA-0111.

Handley, J.R.F. 2004. *Historic overview of the Witwatersrand Goldfields*. Howick: RF Handley

Holm, S.E. 1966. *Bibliography of South African Pre- and Protohistoric archaeology*. Pretoria: J.L. van Schaik.

Kane-Berman, J. 1981. Soweto. Black Revolt, White Reaction. Johannesburg: Raven Press.

Mason, R. 1968. Prehistory of the Transvaal. Johannesburg: Witwatersrand University Press.

Mason, R.J. 1986. *Origins of the Black People of Johannesburg and the southern western central Transvaal AD 350-1880*. Occasional Paper No. 16. Johannesburg: Archaeological Research Unit, University of the Witwatersrand.

Shorten, J.R. 1970. The Johannesburg Saga. Johannesburg: John R Shorten (Pty) Ltd.

Van Schalkwyk, J.A. & Naude, M. 2004. *Heritage Impact Assessment for the Proposed Waste Blending Platform Project, Roodepoort District, Gauteng.* An unpublished report by the National Cultural History Museum on file at SAHRA as: 2004-SAHRA-0111.

8.3 Maps and aerial photographs

1: 50 000 Topocadastral maps: 2627BB Google Earth

APPENDIX 1: CONVENTIONS USED TO ASSESS THE IMPACT OF PROJECTS ON 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 chara	cteristics v	alued by a	
community or cultural group		,	
3. Scientific value			
Does it have potential to yield information that	will contrib	oute to an	
understanding of natural or cultural heritage			
Is it important in demonstrating a high degree of	creative of	or technical	
achievement at a particular period			
4. Social value			
Does it have strong or special association with a pa	articular co	mmunity or	
cultural group for social, cultural or spiritual reasons			
5. Rarity			
Does it possess uncommon, rare or endangered aspec	ts of natura	al or cultural	
heritage			
6. Representivity			
Is it important in demonstrating the principal characteristics of a particular class			
of natural or cultural places or objects			
Importance in demonstrating the principal characteristics of a range of			
landscapes or environments, the attributes of which	n identify i	t as being	
characteristic of its class			
Importance in demonstrating the principal characteristic			
(including way of life, philosophy, custom, process, lan			
or technique) in the environment of the nation, province,			
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			

Significance of impact:

- low where the impact will not have an influence on or require to be significantly accommodated in the project design
- medium where the impact could have an influence which will require modification of the project design or alternative mitigation
- high where it would have a "no-go" implication on the project regardless of any mitigation

Certainty of prediction:

- Definite: More than 90% sure of a particular fact. Substantial supportive data to verify assessment
- Probable: More than 70% sure of a particular fact, or of the likelihood of that impact occurring
- Possible: Only more than 40% sure of a particular fact, or of the likelihood of an impact occurring
- Unsure: Less than 40% sure of a particular fact, or the likelihood of an impact occurring

Recommended management action:

For each impact, the recommended practically attainable mitigation actions which would result in a measurable reduction of the impact must be identified. This is expressed according to the following:

1 = no further investigation/action necessary

2 = controlled sampling and/or mapping of the site necessary

3 = preserve site if possible, otherwise extensive salvage excavation and/or mapping necessary

4 = preserve site at all costs

Legal requirements:

Identify and list the specific legislation and permit requirements which potentially could be infringed upon by the proposed project, if mitigation is necessary.

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.