

**Cultural Heritage Survey of the Proposed Residential Development of
Phase 2 of Cosmo City, City of Johannesburg Metropolitan Municipality**

For

Exigent Environmental
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By

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Contents

Executive Summary

- 1. Introduction**
- 2. Terms of Reference**
- 3. Nature of the Proposed Activity or Development**
- 4. Definitions and Approach**
- 5. Methodology**
 - 5.1 Maps and Other Sources**
 - 5.2 Fieldwork**
 - 5.3 Visibility and Constraints**
- 6. Description of Study Area**
- 7. Archaeological Sequence**
- 8. Archaeological Context**
 - 8.1 Stone Age**
 - 8.2 Iron Age Sequence**
- 9. Description of Sites**
- 10. Summary of Sites**
- 11. Conclusions and Recommendations**

Executive Summary

Stone Age & Iron Age settlements

No Stone Age or Iron Age settlements, structures, features or artefacts were recorded during the survey.

Buildings

Although houses were recorded, of which two structures (Site 1) were destroyed and two houses (site 2) are currently occupied, none are older than 60 years and therefore not protected under the NHRA (Act no 25 of 1999). No further action is required.

Graves

A total of 2 graves were recorded. No inscriptions were recorded on the headstones, as a result both graves are protected under the NHRA (Act 25 of 1999).

If impact will occur in the near future, mitigation measures may entail full grave relocation. Such a relocation process must be undertaken by suitably qualified individuals with a proven track record. The relocation must also be undertaken in full cognisance of all relevant legislation, including the specific requirements of the National Heritage Resource Act (Act no. 25 of 1999). Furthermore, a concerted effort must also be made to identify all buried individuals and to contact their relatives and descendants. Other legislative measures which may be of relevance include the Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925), the Human Tissues Act (Act no. 65 of 1983, as amended), the Ordinance on Excavations (Ordinance no. 12 of 1980) as well as any local and regional provisions, laws and by-laws that may be in place.

Also note the following:

- It should be kept in mind that archaeological deposits usually occur below ground level. Should archaeological artefacts or skeletal material be revealed in the area during construction activities, such activities should be halted, and a university or museum notified in order for an investigation and evaluation of the find(s) to take place (*cf.* **NHRA (Act No. 25 of 1999)**, Section 36 (6)).

1. Introduction

The aim of this cultural heritage survey is to record and document cultural heritage remains consisting of visible archaeological and historical artefacts, structures (including graves) and settlements of cultural significance within the boundaries of the proposed area of Phase 2 of the Cosmo City development. The proposed Phase 2 extension is situated to the northeast of Cosmo City and is located on both sides of Malibongwe Drive R512 (previously Hans Strijdom). This report forms part of the EIA process and was requested by Exigent Environmental on behalf of the client Codevco.

2. Terms of Reference

The terms of reference of this survey are as follows:

- * Provide a detailed description of all archaeological artefacts, structures (including graves) and settlements
- * Estimate the level of significance/importance of the archaeological remains within the area
- * Assess any possible impact on the archaeological and historical remains within the area emanating from the proposed development activities
- * Propose possible mitigation measures provided that such action is necessitated by the development

3. Nature of the Proposed Activity or Development

The project includes the construction of residential, commercial and institutional facilities. The residential components entail low cost and RDP houses and flats. The project will also provide housing for the existing inhabitants of Itsotseng who are currently living on the property.

4. Definitions and Approach

- Archaeological remains can be defined as human-made objects, which reflect past ways of life, deposited on or in the ground.
- Heritage resources have lasting value in their own right and provide evidence of the origins of South African society and they are valuable, finite non-renewable and irreplaceable.
- All archaeological remains, artificial features and structures older than 100 years and historic structures older than 60 years are protected by the relevant legislation, in this case the **National Heritage Resources Act (NHRA) (Act No. 25 of 1999)**. The Act makes an archaeological impact assessment as part of an EIA and EMPR mandatory. No archaeological artefact, assemblage or settlement (site) may be moved or destroyed without the necessary approval from the **South African Heritage Resources Agency (SAHRA)**. Full cognisance is taken of this Act in making recommendations in this report.

- Cognisance will also be taken of the **Mineral and Petroleum Resources Development Act (Act No 28 of 2002)** and the **National Environmental Management Act (Act No 107 of 1998)** when making any recommendations.
- Human remains older than 60 are protected by the **National Heritage Resources Act**, with reference to Section 36. Human remains that are less than 60 years old are protected by the **Human Tissue Act (Act 65 of 1983 as amended)**.
- **Mitigation guidelines:**

Significance Rating	Action
Not protected	1. None
Low	2a. Recording and documentation (Phase 1) of site adequate; no further action required
	2b. Controlled sampling (shovel test pits, augering), mapping and documentation (Phase 2 investigation); permit required for sampling and destruction
Medium	3. Excavation of representative sample, C ¹⁴ dating,), mapping and documentation (Phase 2 investigation); permit required for sampling and destruction [including 2a & 2b]
High	4a. Nomination for listing on Heritage Register (National, Provincial or Local) (Phase 2 & 3 investigation); site management plan; permit required if utilised for education or tourism 4b. Graves: Locate demonstrable descendants through social consulting; obtain permits from applicable legislation, ordinances and regional by-laws; exhumation and reinterment [including 2a, 2b & 3]

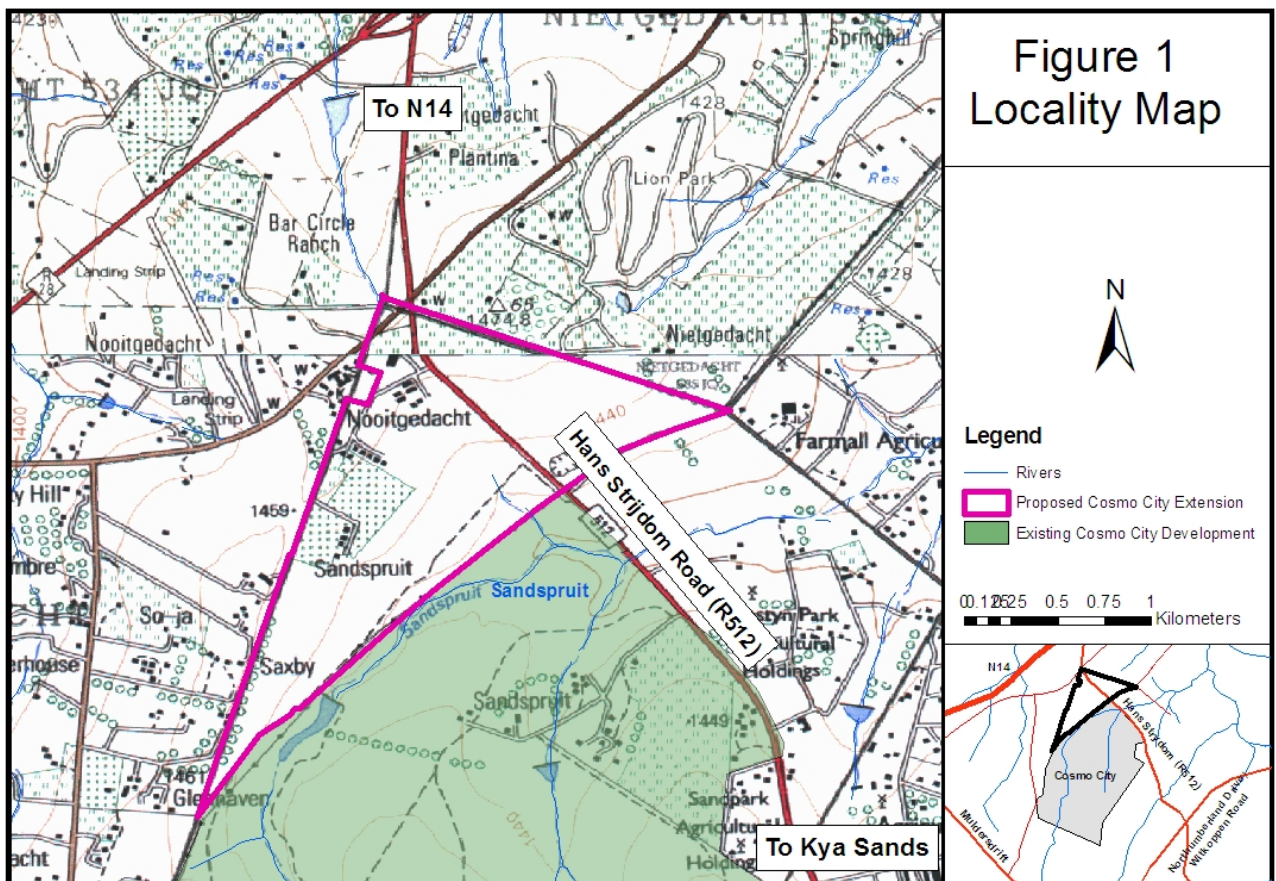
- Rating the **significance of the impact** on a historical or archaeological site is linked to the significance of the site itself. If the significance of the site is rated high, the significance of the impact will also result in a high rating. The same rule applies if the significance rating of the site is low.
- With reference to the evaluation of sites, the certainty of prediction is definite, unless stated otherwise.
- The guidelines as provided by the **NHRA (Act No. 25 of 1999)** in Section 3, with special reference to subsection 3, and the Australian ICOMOS Charter (also known as the Burra Charter) are used when determining the cultural significance or other special value of archaeological or historical sites.
- It should be kept in mind that archaeological deposits usually occur below ground level. Should archaeological artefacts or skeletal material be revealed in the area during construction activities, such activities should be halted, and a university or museum notified in order for an investigation and evaluation of the find(s) to take place (*cf.* **NHRA (Act No. 25 of 1999)**, Section 36 (6)).

- A copy of this report will be lodged with the **South African Heritage Resources Agency (SAHRA)** as stipulated by the National Heritage Resources Act (NHRA) (Act No. 25 of 1999), Section 38 (especially subsection 4).
- Note that the final decision for the approval of permits, or the removal or destruction of sites, structures and artefacts identified in this report, rests with the South African Heritage Resources Agency (SAHRA) (or relevant PHRA).

5. Methodology

5.1 Maps and Other Sources

The proposed area of development is situated east of the N1 highway on Zambezi Road towards Cullinan. The location of the survey area is indicated on Map 1.



Map 1: General location of the proposed area of development.

5.2 Fieldwork

An intensive site visit was conducted on 2 June 2008. The area was investigated on foot.

5.3 Visibility and Constraints

No severe restrictions were encountered. The area was open and accessible. However, due to the subterranean nature of cultural remains this report should not be construed as a record of all archaeological and historic sites in the area.

6. Description of Study Area

The study area is located on the remaining extent of Portion 36 (a portion of Portion 5), Portion 120 (a portion of Portion 37), as well as Portions 4, 38, 48 and 133 of the Farm Zandspruit 191 IQ. Generally, the survey area is open with a gentle slope towards the southeast as the area borders the Sandspruit. The area is characterised by formal and informal settlements which are mainly situated in the western regions. The study area has also been severely disturbed by various infrastructural developments i.e. roads, residential housing, burrow pits etc.

7. Archaeological Sequence

PERIOD	APPROXIMATE DATE
Early Stone Age	more than c. 2 million years ago - c. 250 000 years ago
Middle Stone Age	c. 250 000 years ago – c. 25 000 years ago
Later Stone Age (Includes San Rock Art)	c. 25 000 years ago - c. AD 200 (up to historic times in certain areas)
Early Iron Age	c. AD 400 - c. AD 1025
Late Iron Age (Stonewalled sites)	c. AD 1025 - c. AD 1830 (c. AD 1640 - c. AD 1830)

8. Archaeological Context

8.1 Stone Age

Concentrations of Early Stone Age (ESA) sites are usually present on the flood-plains of perennial rivers and may date to over 2 millions years ago. These ESA open sites may contain scatters of stone tools and manufacturing debris and secondly, large concentrated deposits ranging from pebble tool choppers to core tools such as handaxes and cleavers. The earliest hominins who made these stone tools, probably not always actively hunted, instead relying on the opportunistic scavenging of meat from carnivore kill sites.

Middle Stone Age (MSA) sites also occur on flood plains, but are also associated with caves and rock shelters (overhangs). Sites usually consist of large concentrations of knapped stone flakes such as scrapers, points and blades and associated manufacturing debris. Tools may have been hafted but organic materials, such as those used in hafting, seldom preserve. Limited drive-hunting activities are also associated with this period.

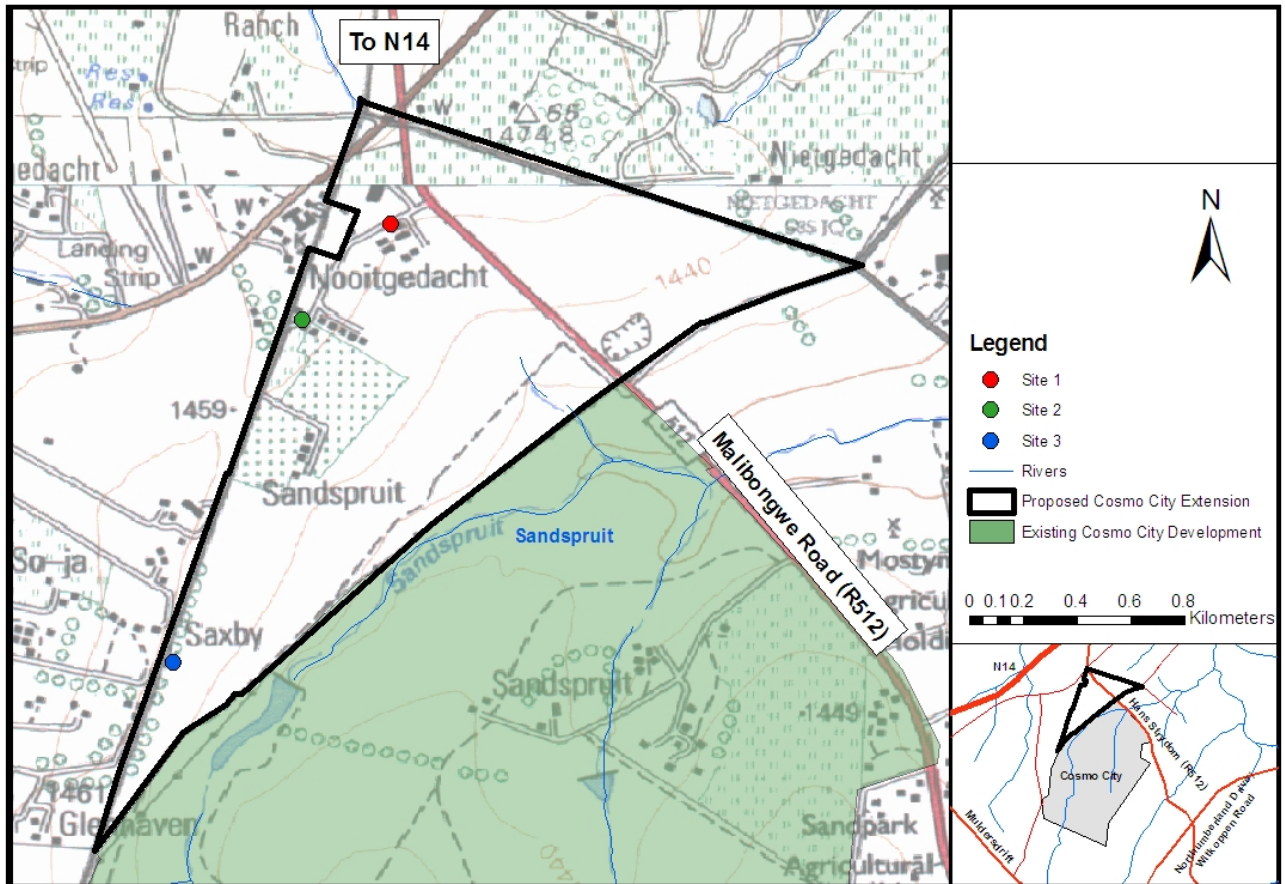
Sites dating to the Later Stone Age (LSA) are better preserved in rock shelters, although open sites with scatters of mainly stone tools can occur. Well-protected deposits in shelters allow for stable conditions that result in the preservation of organic materials such as wood, bone, hearths, ostrich eggshell beads and even bedding material. By using San (Bushman) ethnographic data a better understanding of this period is possible. South African rock art is also associated with the LSA.

8.2 Iron Age Sequence

In the northern regions of South Africa at least three settlement phases have been distinguished for early prehistoric agropastoralist settlements during the **Early Iron Age** (EIA). Diagnostic pottery assemblages can be used to infer group identities and to trace movements across the landscape. The first phase of the Early Iron Age, known as **Happy Rest** (named after the site where the ceramics were first identified), is representative of the Western Stream of migrations, and dates to AD 400 - AD 600. The second phase of **Diamant** is dated to AD 600 - AD 900 and was first recognized at the eponymous site of Diamant in the western Waterberg. The third phase, characterised by herringbone-decorated pottery of the **Eiland** tradition, is regarded as the final expression of the Early Iron Age (EIA) and occurs over large parts of the North West Province, Northern Province, Gauteng and Mpumalanga. This phase has been dated to about AD 900 - AD 1200. These sites are usually located on low-lying spurs close to water.

The **Late Iron Age** (LIA) settlements are characterised by stone-walled enclosures situated on defensive hilltops c. AD 1640 - AD 1830). This occupation phase has been linked to the arrival of ancestral Northern Sotho, Tswana and Southern Ndebele (Nguni-speakers) in the northern and Waterberg regions, and dates from the sixteenth to seventeenth centuries AD. The terminal LIA is represented by late 18th/early 19th century settlements with multichrome Moloko pottery commonly attributed to the Sotho-Tswana. These settlements can in many instances be correlated with oral traditions on population movements during which African farming communities sought refuge in mountainous regions during the processes of disruption in the northern interior of South Africa, resulting from the so-called *difaqane* (or *mfecane*).

9. Description of Sites



Map 2: Layout of proposed development.

Site 1

A. GENERAL SITE DESCRIPTION		
<p>The site consists of a multi-room brick house and a larger brick structure, both of which have been destroyed. The structures are not older than 60 years and therefore not protected by the NHRA (Act 25 of 1999). No middens or any other features were recorded.</p> <p>Certainty of prediction: Probable</p>		
B. SITE EVALUATION		
B1. HERITAGE VALUE	Yes	No
Historic Value		
It has importance to the community or pattern of South Africa’s history or precolonial history.		√
It has strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa.		√
It has significance relating to the history of slavery in South Africa.		√

Aesthetic Value			
It has importance in exhibiting particular aesthetic characteristics valued by a particular community or cultural group.			√
Scientific Value			
It has potential to yield information that will contribute to an understanding of South Africa's natural and cultural heritage.			√
It has importance in demonstrating a high degree of creative or technical achievement at a particular period.			√
It has importance to the wider understanding of temporal changes within cultural landscapes, settlement patterns and human occupation.			√
Social Value			
It has marked or special association with a particular community or cultural group for social, cultural or spiritual reasons (sense of place).			√
Tourism Value			
It has significance through contributing towards the promotion of a local sociocultural identity and can be developed as a tourist destination.			√
Rarity Value			
It possesses unique, uncommon, rare or endangered aspects of South Africa's natural or cultural heritage.			√
Representative Value			
It is of importance in demonstrating the principle characteristics of a particular class of South Africa's natural or cultural places or objects.			√
B2. REGIONAL CONTEXT			
Other similar sites in the regional landscape.		√	
B3. CONDITION OF SITE			
Integrity of deposits/structures.	Destroyed		
C. SPHERE OF SIGNIFICANCE	High	Medium	Low
International			√
National			√
Provincial			√
Local			√
Specific community			√
D. FIELD REGISTER RATING			
National/Grade 1 [should be registered, retained]			
Provincial/Grade 2 [should be registered, retained]			
Local/Grade 3A [should be registered, mitigation not advised]			
Local/Grade 3B [High significance; mitigation, partly retained]			
Generally Protected A [High/Medium significance, mitigation]			
Generally protected B [Medium significance, to be recorded]			
Generally Protected C [Low significance, no further action]			
E. GENERAL STATEMENT OF SITE SIGNIFICANCE			
Low			√
Medium			
High			
F. RATING OF POTENTIAL IMPACT OF DEVELOPMENT			
None			
Peripheral			
Destruction			√

Uncertain

G. RECOMMENDED MITIGATION

- Feature sufficiently recorded
- None

H. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- None

I. PHOTOGRAPHS



Figure 1: Demolished multi-room structure.



Figure 2: Large demolished structure.

Site 2

A. GENERAL SITE DESCRIPTION		
<p>The site consists of several multi-room brick houses with corrugated iron roofs (see Figure 2 & 3 for examples). They are both currently occupied. These structures have been incorporated into the new formal and informal houses that occur in the area. The structures are not older than 60 years and therefore not protected by the NHRA (Act 25 of 1999). No middens or any other features were recorded.</p> <p>Certainty of prediction: Probable</p>		
B. SITE EVALUATION		
B1. HERITAGE VALUE	Yes	No
Historic Value		
It has importance to the community or pattern of South Africa's history or precolonial history.		√
It has strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa.		√
It has significance relating to the history of slavery in South Africa.		√
Aesthetic Value		
It has importance in exhibiting particular aesthetic characteristics valued by a particular community or cultural group.		√
Scientific Value		
It has potential to yield information that will contribute to an understanding of South Africa's natural and cultural heritage.		√
It has importance in demonstrating a high degree of creative or technical achievement at a particular period.		√
It has importance to the wider understanding of the temporal change of cultural landscapes, settlement patterns and human occupation.		√
Social Value		
It has strong or special association with a particular community or cultural group for social, cultural or spiritual reasons (sense of place).		√
Tourism Value		
It has significance through its contribution towards the promotion of a local sociocultural identity and can be developed as tourist destination.		√
Rarity Value		
It possesses unique, uncommon, rare or endangered aspects of South Africa's natural or cultural heritage.		√
Representative Value		
It is importance in demonstrating the principle characteristics of a particular class of South Africa's natural or cultural places or objects.		√
B2. REGIONAL CONTEXT		
Other similar sites in the regional landscape.	√	
B3. CONDITION OF SITE		

Integrity of deposits/structures.	Stable		
C. SPHERE OF SIGNIFICANCE	High	Medium	Low
International			√
National			√
Provincial			√
Local			√
Specific community			√
D. FIELD REGISTER RATING			
National/Grade 1 [should be registered, retained]			
Provincial/Grade 2 [should be registered, retained]			
Local/Grade 3A [should be registered, mitigation not advised]			
Local/Grade 3B [High significance; mitigation, partly retained]			
Generally Protected A [High/Medium significance, mitigation]			
Generally protected B [Medium significance, to be recorded]			
Generally Protected C [Low significance, no further action]			
E. GENERAL STATEMENT OF SITE SIGNIFICANCE			
Low			√
Medium			
High			
F. RATING OF POTENTIAL IMPACT OF DEVELOPMENT			
None			
Peripheral			
Destruction			√
Unknown			
G. RECOMMENDED MITIGATION			
<ul style="list-style-type: none"> • Sufficiently recorded • None 			
H. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS			
<ul style="list-style-type: none"> • None 			
I. PHOTOGRAPHS			



Figure 2: Multi-room brick house with corrugated iron roof.



Figure 3: Multi-room brick house with corrugated iron roof.

Site 3

A. GENERAL SITE DESCRIPTION				
The site consists of two graves which have a north-south orientation, with the headstones on the northern side. No inscriptions were noted on the headstones. The graves are then by default protected under Section 36 the NHRA (Act 25 of 1999). No other structures or features were recorded in association with the graves.				
B. SITE EVALUATION				
B1. HERITAGE VALUE			Yes	No
Historic Value				
It has importance to the community or pattern of South Africa's history or precolonial history.				√
It has strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa.				√
It has significance relating to the history of slavery in South Africa.				√
Aesthetic Value				
It has importance in exhibiting particular aesthetic characteristics valued by a particular community or cultural group.				√
Scientific Value				
It has potential to yield information that will contribute to an understanding of South Africa's natural and cultural heritage.			√	
It has importance in demonstrating a high degree of creative or technical achievement at a particular period.				√
It has importance to the wider understanding of the temporal change of cultural landscapes, settlement patterns and human occupation.			√	
Social Value				
It has strong or special association with a particular community or cultural group for social, cultural or spiritual reasons (sense of place).			√	
Tourism Value				
It has significance through its contribution towards the promotion of a local sociocultural identity and can be developed as tourist destination.				√
Rarity Value				
It possesses unique, uncommon, rare or endangered aspects of South Africa's natural or cultural heritage.				√
Representative Value				
It is importance in demonstrating the principle characteristics of a particular class of South Africa's natural or cultural places or objects.			√	
B2. REGIONAL CONTEXT				
Other similar sites in the regional landscape.			√	
B3. CONDITION OF SITE				
Integrity of deposits/structures.		Stable		
C. SPHERE OF SIGNIFICANCE		High	Medium	Low
International				√
National				√
Provincial				√
Local				√

Specific community	√		
D. FIELD REGISTER RATING			
National/Grade 1 [should be registered, retained]			
Provincial/Grade 2 [should be registered, retained]			
Local/Grade 3A [should be registered, mitigation not advised]			
Local/Grade 3B [High significance; mitigation, partly retained]			
Generally Protected A [High/Medium significance, mitigation]			√
Generally protected B [Medium significance, to be recorded]			
Generally Protected C [Low significance, no further action]			
E. GENERAL STATEMENT OF SITE SIGNIFICANCE			
Low			
Medium			
High			√
F. RATING OF POTENTIAL IMPACT OF DEVELOPMENT			
None			
Peripheral			
Destruction			
Unknown			√
G. RECOMMENDED MITIGATION			
<ul style="list-style-type: none"> • The graves must be fenced • A minimum 10 metres buffer zone should be maintained around the graves • If further impact is envisaged, please note the following: <ul style="list-style-type: none"> • Phase 2 investigation • Social consultation • Exhumation and reburial 			
H. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS			
<ul style="list-style-type: none"> • Human Tissue Act (Act 65 of 1983 as amended). • Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925) • Ordinance on Excavations (Ordinance no. 12 of 1980) • Local and regional provisions, laws and by-laws • National Heritage Resources Act (Act no. 25 of 1999) • Permit from SAHRA for removal 			
II. PHOTOGRAPHS			



Figure 4: Two graves demarcated with packed stones.

10. Summary of Sites

Site	Coordinates	Site Type	Statement of Significance	Impact	Mitigation
1	26.00192° S 27.92461° E	Modern Structure	Low	High	<ul style="list-style-type: none"> • None
2	26.00513° S 27.92165° E	House	Low	High	<ul style="list-style-type: none"> • None
3	26.01657°S, 27.91736° E	Graves	High	High	<ul style="list-style-type: none"> • Phase 2 • Social consultation • Exhumation & reburial

11. Conclusions and Recommendations

Stone Age & Iron Age settlements

No Stone Age or Iron Age settlements, structures, features or artefacts were recorded during the survey.

Buildings

Although houses were recorded, of which two structures (Site 1) were destroyed and two houses (site 2) are currently occupied, none are older than 60 years and therefore not protected under the NHRA (Act no 25 of 1999). No further action is required.

Graves

A total of 2 graves were recorded. No inscriptions were recorded on the headstones, as a result both graves are protected under the NHRA (Act 25 of 1999).

If impact will occur in the near future, mitigation measures may entail full grave relocation. Such a relocation process must be undertaken by suitably qualified individuals with a proven track record. The relocation must also be undertaken in full cognisance of all relevant legislation, including the specific requirements of the National Heritage Resource Act (Act no. 25 of 1999). Furthermore, a concerted effort must also be made to identify all buried individuals and to contact their relatives and descendants. Other legislative measures which may be of relevance include the Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925), the Human Tissues Act (Act no. 65 of 1983, as amended), the Ordinance on Excavations (Ordinance no. 12 of 1980) as well as any local and regional provisions, laws and by-laws that may be in place.

Note that four categories of graves can be identified. These are:

- Graves younger than 60 years;
- Graves older than 60 years, but younger than 100 years;
- Graves older than 100 years; and
- Graves of victims of conflict or of individuals of royal descent.

Also note the following:

- It should be kept in mind that archaeological deposits usually occur below ground level. Should archaeological artefacts or skeletal material be revealed in the area during construction activities, such activities should be halted, and a university or museum notified in order for an investigation and evaluation of the find(s) to take place (*cf.* **NHRA (Act No. 25 of 1999)**, Section 36 (6)).