

Archaetnos Culture & Cultural Resource Consultants BK 98 09854/23

## A REPORT ON AN ARCHAEOLOGICAL IMPACT ASSESSMENT FOR THE ESKOM MERENSKY-UCHOBA PROJECT, MPUMALANGA PROVINCE

For:

Landscape Dynamics PO Box 947 Groenkloof 0027

#### **REPORT NO.: AE02015V**

By:

## Prof. A.C. van Vollenhoven (L.AKAD.SA.) Accredited member of ASAPA (Accreditation number: 166) Accredited member of SASCH (Accreditation number: CH001)

#### 13 March 2020

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## SUBMISSION OF REPORT

Please note that the South African Heritage Resources Agency (SAHRA) or one of its subsidiary bodies needs to comment on this report.

It is the client's responsibility to do the submission via the SAHRIS System on the SAHRA website. Arrangements can however be made if necessary.

Clients are advised not to proceed with any action before receiving the necessary comments from SAHRA.

#### DISCLAIMER

Although all possible care is taken to identify all sites of cultural importance during the survey of study areas, the nature of archaeological and historical sites is as such that it always is possible that hidden or subterranean sites could be overlooked during the study. Access to certain areas is also sometimes limited. Archaetnos and its personnel will not be held liable for such oversights or for costs incurred as a result thereof. Any additional sites identified can be visited and assessed afterwards and the report amended, but only upon receiving an additional appointment.

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## **EXECUTIVE SUMMARY**

Archaetnos cc was requested by Landscape Dynamics to conduct an Archaeological Impact Assessment (AIA) for ESKOM, related to the proposed ESKOM Merensky-Uchoba Project. The project consists of approximately 17 km of a 132 KV power line, for which a 1 km corridor is investigated. This is close to the town of Steelpoort in the Fetalgomo Tubatse Local Municipality, Sekhukhune District Municipality, Mpumalanga Province.

The study is done as Basic Assessment, forming part of the Environmental Impact Assessment (EIA) process. Two alternative route options within the corridor was investigated.

A survey of literature was undertaken in order to obtain background information regarding the area. The field survey was conducted according to generally accepted HIA practices and was aimed at locating all possible objects, sites and features of cultural significance in the area of proposed development.

One site of cultural heritage importance was identified. It is believed to have a rating of low significance.

The following is recommended:

- **1.** Site no 1 (clay-built building) is of low significance and may thus be demolished if necessary.
- **2.** However, it is highly unlikely that this would be needed, and it can be left to deteriorate naturally.
- **3.** The proposed project may therefore continue, but only after receiving comments from SAHRA.
- **4.** From a heritage perspective there is no specific preference for any of the two alternatives.
- **5.** In any event, once the pylon positions have been finalized, a walk down study would be needed to confirm that nothing of heritage value is being compromised.
- 6. It should be noted that the subterranean presence of archaeological and/or historical sites, features or artefacts is always a distinct possibility. Care should therefore be taken when development commences that if any of these are

discovered, work on site immediate cease and a qualified archaeologist be called in to investigate the occurrence.

#### CURRICULUM VITAE <u>Prof. Anton Carl van Vollenhoven</u>

PERSONAL INFORMATION

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## TERTIARY EDUCATION

- BA 1986, University of Pretoria
- BA (HONS) Archaeology 1988 (cum laude), University of Pretoria
- MA Archaeology 1992, University of Pretoria
- Post-Graduate Diploma in Museology 1993 (cum laude), University of Pretoria
- Diploma Tertiary Education 1993, University of Pretoria
- DPhil Archaeology 2001, University of Pretoria.
- MA Cultural History 1998 (cum laude), University of Stellenbosch
- Management Diploma 2007 (cum laude), Tshwane University of Technology
- DPhil History 2010, University of Stellenbosch

## **EMPLOYMENT HISTORY**

- 1988-1991: Fort Klapperkop Military Museum Researcher
- *1991-1999:* National Cultural History Museum. Work as Archaeologist, as well as Curator/Manager of Pioneer Museum (1994-1997)
- 1999-2002: City Council of Pretoria. Work as Curator: Fort Klapperkop Heritage Site and Acting Deputy Manager Museums and Heritage.
- 2002-2007: City of Tswhane Metropolitan Municipality. Work as Deputy Manager Museums and Heritage.
- August 2007 present Managing Director for Archaetnos Archaeologists.
- 1988-2003: Part-time lecturer in Archaeology at the University of Pretoria and a parttime lecturer on Cultural Resources Management in the Department of History at the University of Pretoria.
- 2014-2015: Part-time lecturer for the Honours degree in Museum Sciences in the Department of History and Heritage Studies at the University of Pretoria
- *Since 2015*: Extraordinary Professor of History at the Mahikeng campus of the Northwest University

#### **OTHER**

- Has published 35 peer-reviewed and 43 popular articles.
- Hs written 11 books/book contributions/conference proceedings .
- Has been the author and co-author of over 973 unpublished reports on cultural resources surveys and archaeological work.
- Has delivered more than 75 papers and lectures at national and international conferences.
- Member of SAHRA Council for 2003 2006.
- Member of the South African Academy for Science and Art.

- Member of Association for South African Professional Archaeologists.
- Member of the South African Society for Cultural History (Chairperson 2006-2008; 2012-2014; 2018-2020).
- Has been editor for the SA Journal of Cultural History 2002-2004.
- Editorial member of various scientific journals.
- Member of the Provincial Heritage Resources Agency, Gauteng's Council.
- Member of Provincial Heritage Resources Agency, Gauteng's HIA adjudication committee (Chairperson 2012-2020).

A list of reports can be viewed on <u>www.archaetnos.co.za</u>.

## DECLARATION OF INDEPENDENCE

I, Anton Carl van Vollenhoven from Archaetnos, hereby declare that I am an independent specialist within the field of heritage management.

follow have

Signed:

Date: 13 March 2020

## LIST OF ACRONYMS:

AIA – Archaeological Impact Assessment

CMP – Cultural Management Plan

EAP – Environmental Assessment Practitioner

EIA – Environmental Impact Assessment

HIA – Heritage Impact Assessment

PIA – Palaeontological Impact Assessment

SAHRA – South African Heritage Resources Agency

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## 1. INTRODUCTION

Archaetnos cc was requested by Landscape Dynamics to conduct an Archaeological Impact Assessment (AIA) for ESKOM, related to the proposed ESKOM Merensky-Uchoba Project. The project consists of approximately 17 km of a 132 KV power line, for which a 1 km corridor is investigated. This is close to the town of Steelpoort in the Fetalgomo Tubatse Local Municipality, Sekhukhune District Municipality, Mpumalanga Province (Figure 1-2).

The study is done as Basic Assessment, forming part of the Environmental Impact Assessment (EIA) process according to the Environmental Impact Assessment Regulations which came into effect in December 2014, as amended and promulgated in terms of section 24(5) of the National Environmental Management Act, 1998 (Act No. 107 of 1998). Listing Notices 1 and 3 are applicable and a Basic Assessment Report has to be compiled. The decision-making authority for this EIA is the national Department of Environmental Affairs (DEA).

Two alternative route options within the corridor was investigated. These were indicated by the client and surveyed by a foot an off road vehicle.



Figure 1: Location of Steelpoort in the Mpumalanga Province.



Figure 2: The proposed route (purple) and alternative (yellow) for the Merensky-Uchoba Project. The green area indicates the investigated corridor.

## 2. TERMS OF REFERENCE

The Terms of Reference for the survey were to:

- 1. Identify objects, sites, occurrences and structures of an archaeological or historical nature (cultural heritage sites) located in the surveyed area (see Appendix A).
- 2. Study background information on the area to be developed.
- 3. Assess the significance of the cultural resources in terms of their archaeological, historical, scientific, social, religious, and aesthetic and tourism value (see Appendix B).
- 4. Describe the possible impact of the proposed development on these cultural remains, according to a standard set of conventions.
- 5. Recommend suitable mitigation measures to minimize possible negative impacts on the cultural resources by the proposed development.
- 6. Review applicable legislative requirements.

## 3. CONDITIONS & ASSUMPTIONS

The following conditions and assumptions have a direct bearing on the survey and the resulting report:

- Cultural Resources are all non-physical and physical man-made occurrences, as well as natural occurrences associated with human activity (Appendix A). These include all sites, structure and artefacts of importance, either individually or in groups, in the history, architecture and archaeology of human (cultural) development. Graves and cemeteries are included in this.
- 2. The significance of the sites, structures and artefacts is determined by means of their historical, social, aesthetic, technological and scientific value in relation to their uniqueness, condition of preservation and research potential. The various aspects are not mutually exclusive, and the evaluation of any site is done with reference to any number of these aspects.
- 3. Cultural significance is site-specific and relates to the content and context of the site. Sites regarded as having low cultural significance have already been recorded in full and require no further mitigation. Sites with medium cultural significance may or may not require mitigation depending on other factors such as the significance of impact on the site. Sites with a high cultural significance require further mitigation (see Appendix C).
- 4. The latitude and longitude of any archaeological or historical site or feature, is to be treated as sensitive information by the developer and should not be disclosed to members of the public.
- 5. All recommendations are made with full cognizance of the relevant legislation.
- 6. It has to be mentioned that it is almost impossible to locate all the cultural resources in a given area, as it will be very time consuming. Developers should however note that this report should make it clear how to handle any other finds that might occur.
- 7. As this is a Basic Assessment the area in general were investigated. It is always a possibility that something could have been missed. However, it will be necessary to finalise the study during a walk-down survey once specific pylon positions have been determined.

## 4. LEGISLATIVE REQUIREMENTS

Aspects concerning the conservation of cultural resources are dealt with mainly in two acts. These are the National Heritage Resources Act (Act 25 of 1999) and the National Environmental Management Act (Act 107 of 1998).

## 4.1 The National Heritage Resources Act

According to the above-mentioned act the following is protected as cultural heritage resources:

- a. Archaeological artefacts, structures and sites older than 100 years
- b. Ethnographic art objects (e.g. prehistoric rock art) and ethnography
- c. Objects of decorative and visual arts
- d. Military objects, structures and sites older than 75 years
- e. Historical objects, structures and sites older than 60 years
- f. Proclaimed heritage sites
- g. Grave yards and graves older than 60 years
- h. Meteorites and fossils
- i. Objects, structures and sites or scientific or technological value.

The national estate (see Appendix D) includes the following:

- a. Places, buildings, structures and equipment of cultural significance
- b. Places to which oral traditions are attached or which are associated with living heritage
- c. Historical settlements and townscapes
- d. Landscapes and features of cultural significance
- e. Geological sites of scientific or cultural importance
- f. Archaeological and paleontological importance
- g. Graves and burial grounds
- h. Sites of significance relating to the history of slavery
- i. Movable objects (e.g. archaeological, paleontological, meteorites, geological specimens, military, ethnographic, books etc.)

A Heritage Impact Assessment (HIA) is the process to be followed in order to determine whether any heritage resources are located within the area to be developed as well as the possible impact of the proposed development thereon. An Archaeological Impact Assessment (AIA) only looks at archaeological resources. The different phases during the HIA process are described in Appendix E.

An HIA must be done under the following circumstances:

- a. The construction of a linear development (road, wall, power line canal etc.) exceeding 300m in length
- b. The construction of a bridge or similar structure exceeding 50m in length
- c. Any development or other activity that will change the character of a site and exceed 5 000m<sup>2</sup> or involve three or more existing erven or subdivisions thereof
- d. Re-zoning of a site exceeding 10 000  $m^2$
- e. Any other category provided for in the regulations of SAHRA or a provincial heritage authority

## **Structures**

Section 34 (1) of the mentioned act states that no person may demolish any structure or part thereof which is older than 60 years without a permit issued by the relevant provincial heritage resources authority.

A structure means any building, works, device or other facility made by people and which is fixed to land, and includes any fixtures, fittings and equipment associated therewith.

Alter means any action affecting the structure, appearance or physical properties of a place or object, whether by way of structural or other works, by painting, plastering or the decoration or any other means.

## Archaeology, palaeontology and meteorites

Section 35(4) of this act deals with archaeology, palaeontology and meteorites. The act states that no person may, without a permit issued by the responsible heritage resources authority (national or provincial):

- a. destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or paleontological site or any meteorite;
- b. destroy, damage, excavate, remove from its original position, collect or own any archaeological or paleontological 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 paleontological material or object, or any meteorite;
- d. bring onto or use at an archaeological or paleontological site any excavation equipment or any equipment that assists in the detection or recovery of metals or archaeological and paleontological material or objects, or use such equipment for the recovery of meteorites, or

e. alter or demolish any structure or part of a structure which is older than 60 years as protected.

The above mentioned may only be disturbed or moved by an archaeologist, after receiving a permit from the South African Heritage Resources Agency (SAHRA). In order to demolish such a site or structure, a destruction permit from SAHRA will also be needed.

#### <u>Human remains</u>

Graves and burial grounds are divided into the following:

- a. ancestral graves
- b. royal graves and graves of traditional leaders
- c. graves of victims of conflict
- d. graves designated by the Minister
- e. historical graves and cemeteries
- f. human remains

In terms of Section 36(3) of the National Heritage Resources Act, no person may, without a permit issued by the relevant heritage resources authority:

- a. destroy, damage, alter, exhume or remove from its original position of 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 or 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
- bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation, or any equipment which assists in the detection or recovery of metals.

Unidentified/unknown graves are also handled as older than 60 until proven otherwise.

Human remains that are less than 60 years old are subject to provisions of the **National Health Act (Act 61 of 2003)** and to local regulations. Exhumation of graves must conform to the standards set out in the **Ordinance on Exhumations (Ordinance no. 12 of 1980)** (replacing the old Transvaal Ordinance no. 7 of 1925).

Permission must also be gained from the descendants (where known), the National Department of Health, Provincial Department of Health, Premier of the Province and local police. Furthermore, permission must also be gained from the various

landowners (i.e. where the graves are located and where they are to be relocated) before exhumation can take place. Human remains can only be handled by a registered undertaker or an institution declared under the **National Health Act** (Act 61 of 2003).

## 4.2 The National Environmental Management Act

This act (Act 107 of 1998) states that a survey and evaluation of cultural resources must be done in areas where development projects, that will change the face of the environment, will be undertaken. The impact of the development on these resources should be determined and proposals for the mitigation thereof are made.

Environmental management should also take the cultural and social needs of people into account. Any disturbance of landscapes and sites that constitute the nation's cultural heritage should be avoided as far as possible and where this is not possible the disturbance should be minimized and remedied.

## 5. THE INTERNATIONAL FINANCE CORPORATIONS' PERFORMANCE STANDARD FOR CULTURAL HERITAGE

This standard recognizes the importance of cultural heritage for current and future generations. It aims to ensure that clients protect cultural heritage in the course of their project activities.

This is done by clients abiding to the law and having heritage surveys done in order to identify and protect cultural heritage resources via field studies and the documentation of such resources. These need to be done by competent professionals (e.g. archaeologists and cultural historians). Possible chance finds, encountered during the project development, also needs to be managed by not disturbing it and by having it assessed by professionals.

Impacts on the cultural heritage should be minimized. This include the possible maintenance of such sites in situ, or when impossible, the restoration of the functionality of the cultural heritage in a different location. When cultural historical and archaeological artefacts and structures need to be removed is should be done by professionals and by abiding to the applicable legislation.

The removal of cultural heritage resources may however only be considered if there are not technically or financially feasible alternatives. In considering the removal of cultural resources, it should be outweighed by the benefits of the overall project to the effected communities. Again professionals should carry out the work and adhere to the best available techniques.

Consultation with affected communities should be engaged in. This entails that access to such communities should be granted to their cultural heritage if this is applicable. Compensation for the loss of cultural heritage should only be given in extra-ordinary circumstances.

Critical cultural heritage may not be impacted on. Professionals should be used to advise on the assessment and protection thereof. Utilization of cultural heritage resources should always be done in consultation with the effected communities in order to be consistent with their customs and traditions and to come to agreements with relation to possible equitable sharing of benefits from commercialization.

## 6. METHODOLOGY

#### 6.1 Survey of literature

A survey of literature was undertaken in order to obtain background information regarding the area. This includes reports identified on the SAHRIS Database. Sources consulted in this regard are indicated in the bibliography. One other study in the adjacent area was noted with various others having been done in the Steelpoort Valley (SAHRIS database; Archaetnos database).

#### 6.2 Field survey

The survey was conducted according to generally accepted HIA practices and was aimed at locating possible objects, sites and features of cultural significance in the area of proposed development. Since it was a basic assessment the aim was only to get a good idea of the heritage in the area. Since one sometimes looks a bit wider than the demarcated area, as the surrounding context needs to be taken into consideration, it was determined that an additional field survey was not needed as the changes was covered by the initial field study.

Where required, the location/position of any site was determined by means of a Global Positioning System (GPS)<sup>1</sup>, while photographs were also taken where needed. The survey was undertaken by doing a physical survey via off-road vehicle and on foot and covered as much as possible of the area to be studied (Figure 3). Certain factors, such as accessibility, density of vegetation, etc. may however influence the coverage. The length of the proposed linear development is approximately 17 km and the survey took approximately 6 hours to complete.

<sup>&</sup>lt;sup>1</sup> A Garmin Oregon 550 with an accuracy factor of a few meters.



#### Figure 3: Track route of the survey.

6.3 Oral histories and social consultation

People from local communities are interviewed in order to obtain information relating to the surveyed area. It needs to be stated that this is not applicable under all circumstances. When applicable, the information is included in the text and referred to in the bibliography.

The project coordinator (Landscape Dynamics) handles the social consultation. Site notices are indicated in Appendix F.

#### 6.4 Documentation

All sites, objects, features and structures identified were documented according to the general minimum standards accepted by the archaeological profession. Co-ordinates of individual localities were determined by means of the Global Positioning System (GPS). The information was added to the description in order to facilitate the identification of each locality.

6.5 Evaluation of Heritage sites

The evaluation of heritage sites is done by giving a field rating of each (see Appendix C) using the following criteria:

- The unique nature of a site
- The integrity of the archaeological deposit
- The wider historic, archaeological and geographic context of the site
- The location of the site in relation to other similar sites or features
- The depth of the archaeological deposit (when it can be determined or is known)
- The preservation condition of the site
- Uniqueness of the site and
- Potential to answer present research questions.

## 7. DESCRIPTION OF THE ENVIRONMENT

The line starts at the Mampuru substation in the north east (Figure 4). From here it runs towards the south west with the alternative being a short distance north of the preferred alternative. The corridor lies between the Steelpoort River to the north and a provincial road to the south.

The environment along the length of the route and alternative routes within the corridor is much the same. It consists of sections with thick natural bush, mainly caused by over-grazing (Figure 5-6). In such areas both the vertical and horizontal archaeological visibility was difficult. However, in some areas the vegetation cover was low and there were open patches, indicating that the area had been disturbed. Here archaeological visibility was relatively good (Figure 7-8). The environment in the alternative route section is much the same (Figure 9).

Certain sections show signs of bush clearance (Figure 10). Disturbance in the area were caused by roads, power lines, pipe lines (Figure 11), industrial activities (Figure 12), dams (Figure 13) and over-grazing.

Along the Steelpoort River, seen as the southern edge of the corridor, vegetation is dense, but easy to penetrate and investigate (Figure 14). There also is a large area more or less in the centre of the proposed line that had been eroded heavily (Figure 15).

The topography of the area has a slight fall from south east to north west, towards the Steelpoort River. A few hills are also found within the corridor.



Figure 4: The Mampuru substation.



Figure 5: View of the environment showing thick bush. Also note the disturbance of the natural environment by existing power lines.



Figure 6: Another view of dense vegetation close to the end of the preferred route.



Figure 7: A relatively open area along the route showing a dirt road and existing power lines.



Figure 8: Another open area close to the end of the preferred route.



Figure 9: Environment along the alternative route.



Figure 10: Cleared area.



Figure 11: Industrial pipe line along the route.



Figure 12: Industrial activities within the corridor.



Figure 13: Dam within the corridor.



Figure 14: Vegetation along the Steelpoort River.



Figure 15: eroded section along the route.

#### 8. HISTORICAL CONTEXT

One site of cultural heritage significance was located during the survey. Some background information is given in order to place the surveyed area in a broad historical and geographical context and to contextualize possible finds that could be unearthed during construction activities.

A large number of heritage reports were completed around the towns of Steelpoort and Burgersfort previously (SAHRA's SAHRIS database; Archaetnos database). These are included in the discussion below.

#### 8.1 Stone Age

The Stone Age is the period in human history when lithic material was mainly used to produce tools (Coertze & Coertze 1996: 293). In South Africa the Stone Age can be divided in three periods. It is, however, important to note that dates are relative and only provide a broad framework for interpretation. The division for the Stone Age according to Korsman & Meyer (1999: 93-94) is as follows:

Early Stone Age (ESA) 2 million – 150 000 years ago Middle Stone Age (MSA) 150 000 – 30 000 years ago Late Stone Age (LSA) 40 000 years ago – 1850 - A.D.

No Stone Age sites are indicated in a historical atlas of this area. However one needs to take note that this may only indicate a lack of research in the area. The closest Stone Age sites indicated in the atlas is Middle and Late Stone Age sites close to Ohrigstad (Bergh 1999: 5).

Stone Age material was however found during various surveys in and around Burgersfort and Steelpoort. This includes rock paintings at the Two Rivers Mine (Archaetnos database). Higgitt et.al. (2015: 21-22) did identify MSA tools on the farm De Grooteboom. These were however found in eroded areas, an indication that it likely were in a secondary context. It also was located towards the south of the current surveyed area.

The environment definitely would be supportive to Stone Age activities. The nearby mountains give natural shelter and material to make stone tools from. The streams would lure animals to the area and these people would therefore have hunted here. The natural rock mostly includes shale, which is a soft stone, meaning that that there are very limited resources from which to make stone tools. This would most likely be limited to the mountain tops. One should therefore be on the lookout for stone tools during construction work on the site.

In fact, some stone tools were found during the survey (Figure 16-17). These date to the Early, Middle and Late Stone Age, but were found out of context along the river or in the eroded area.



Figure 16: Stone tools found during the survey.



Figure 17: Stone tools found in the eroded area.

# 8.2 Iron Age

The Iron Age is the name given to the period of human history when metal was mainly used to produce metal artifacts (Coertze & Coertze 1996: 346). In South Africa it can

be divided in two separate phases according to Van der Ryst & Meyer (1999: 96-98), namely:

Early Iron Age (EIA) 200 – 1000 A.D. Late Iron Age (LIA) 1000 – 1850 A.D.

Huffman (2007: xiii) however, indicates that a Middle Iron Age should be included. His dates, which now seem to be widely accepted in archaeological circles, are:

Early Iron Age (EIA) 250 – 900 A.D. Middle Iron Age (MIA) 900 – 1300 A.D. Late Iron Age (LIA) 1300 – 1840 A.D.

The nearest Early Iron Age site to the surveyed area is the sites at Lydenburg and Klingbeil to the south-east of the surveyed area. A large number of Late Iron Age sites have previously been identified in an area roughly stretching between Lydenburg, Nelspruit and Badplaas (Bergh 1999: 6-7).

Other sites have also been identified by Archaetnos during surveys in the area (Archaetnos database). Iron Age potshards and features have been located at the farm De Grooteboom by Higgitt et.al. (2015: 22-24). These were towards the south of the current area being investigated.

During the current survey a hammer stone (Figure 18) was picked up close to the river. Pottery, without decoration was also found in the eroded area, thus being out of context (Figure 19). It therefore serves as proof that these people did utilize the area.



Figure 18: Hammer stone.



Figure 19: Pottery found in the eroded area.

The general broader environment around the surveyed area is suitable for Iron Age people. The mountains would give shelter and building material and the valleys good grazing and ample water sources. One would therefore expect that Iron Age people may have utilized the area. The white settlers moved into this environment later on for the same reason.

#### 8.3 Historical Age

The historical age started with the first recorded oral histories in the area. It includes the moving into the area of people that were able to read and write. This era is sometimes called the Colonial era or the recent past.

Due to factors such as population growth and a decrease in mortality rates, more people inhabited the country during the recent historical past. Therefore and because less time has passed, much more cultural heritage resources from this era have been left on the landscape. It is important to note that all cultural resources older than 60 years are potentially regarded as part of the heritage and that detailed studies are needed in order to determine whether these indeed have cultural significance. Factors to be considered include aesthetic, scientific, cultural and religious value of such resources.

It is known that one of the early trade routes passed along the Steelpoort River (Bergh 1999: 9). At the beginning of the 19<sup>th</sup> century the area was inhabited by the Koni, Tau, Pedi and Roka who are all of Sotho origin. During the Difaquane, in ca.1822, the Ndebele of Mzilikazi entered this area from the south. In 1825 a Zulu group under Zwide attacked the Ndebele here. As a result these other groups fled to the north. They returned later on (Bergh 1999: 10-11).

None of the early travellers who visited the old Transvaal visited this area. In 1836 the Voortrekker groups of Tregardt and Van Rensburg passed to the west of the Steelpoort River (Bergh 1999: 13-14). The land around Lydenburg, including the Steelpoort River Valley was traded from the Swazi in 1846 and the first white settlers then started farming here (Bergh 1999: 16, 130-132).

Historical structures, such as farm houses and infrastructure may therefore be found in the area. Such buildings have been identified on neighboring farms during past surveys (Archaetnos database; Mathoho 2012: 31-33). Signs of the earliest historical mining activities were also identified on adjacent farms (Archaetnos database; Stegmann & Roodt 2012). Many graves from this period are also known from other nearby farms (Archaetnos database; Mathoho 2012: 34)).

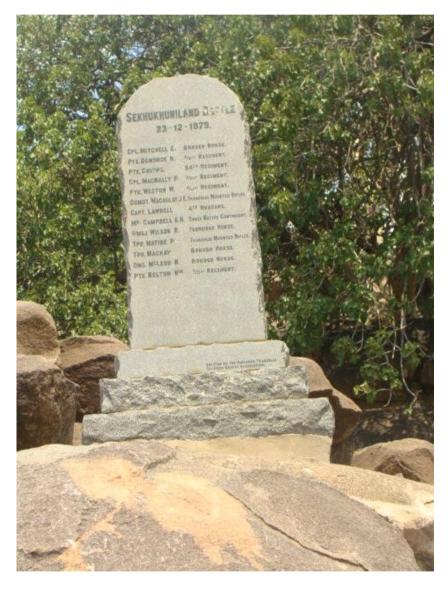


Figure 20: Commemorative stone for British soldiers who died in the war against the Pedi State.

One Provincial Heritage site is known from the area. About 10 km towards the south of the study area the Tšate Valley site is situated (Figure 20-21). It commemorates the rise of the Pedi Kingdom.

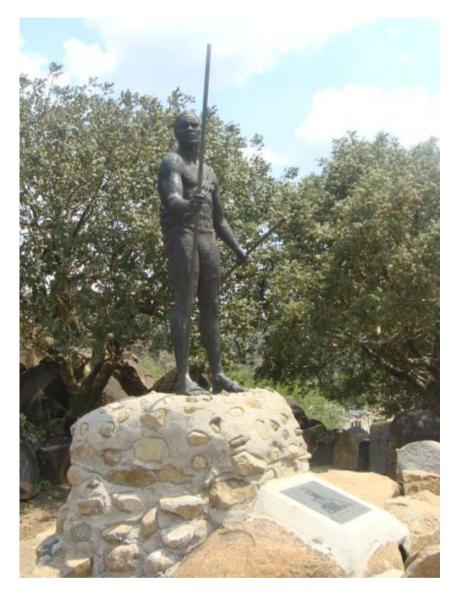


Figure 21: Statue of Chief Sekhukhune.

# 9. DISCUSSION OF HERITAGE RESOURCES IDENTIFIED DURING THE SURVEY

One site was identified during the survey. Database research showed various sites in the greater geographical area. The closest to the study area are those found by Mathoho (2012), discussed above. These consist of building remains, farm yards and graves, but the closest one to the study area is found on the northern side of the river, approximately 2 km from the corridor that was investigated (Figure 22). It will thus not be impacted on.

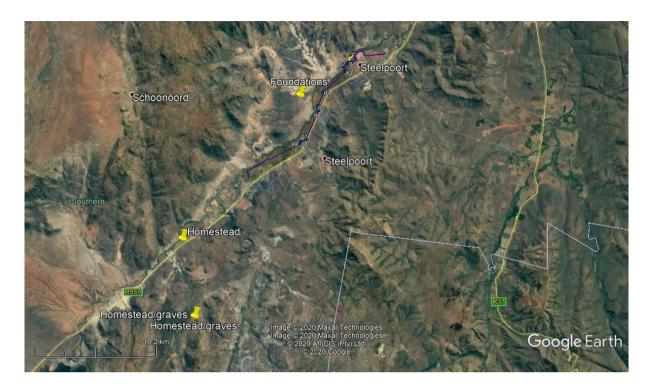


Figure 23: Location of heritage sites identified by Mathoho (2012).

#### 9.1 Site 1 – clay walled building remains

The remains of a building, probably a house, built from clay were identified (Figure 24). It is rectangular with sides of  $10 \times 12$  m and two rooms. The height of the walls varies between a few centimetres and about 2,5 m. It likely was a workers house on a farm. No artefacts were seen on site.

GPS: 24°43'12.86"S; 30°11'52.71"E

The site likely is older than 60 years, but without artefactual evidence this id difficult to tell. It is in a poor state and not very unique.



Figure 24: Remains of mud/ clay building.

# Cultural significance Table:

A place is considered to be part of the national estate if it has cultural significance because of -	Applicable or not	Rating: 1=Negligible/ 2=Low/ 3=Low-Medium/ 4= Medium/ 5=Medium- High/ 6=High/ 7=Very High
Its importance in the community or pattern of South Africa's history	Y	1=Negligible
Its possession of uncommon, rare, or endangered aspects of South Africa's natural or cultural history	Ν	
Its potential to yield information that will contribute to an understanding of South Africa's natural or cultural heritage	Ν	
Its importance in demonstrating the principal characteristics of a particular class of South	Ν	

Africa's natural or cultural places or objects		
Its importance in exhibiting particular aesthetic characteristics valued by a community cultural group	Ν	
Its importance in demonstrating a high degree of creative or technical achievement at a particular period	Y	1=Negligible
Its strong or special association with a particular community or cultural group for social, cultural or spiritual reasons	Ν	
Its strong or special association with the life or work of a person, group or organization of importance in the history of South Africa	N	
Sites of significance relating to the history of slavery in South Africa	Ν	
Reasoned assessment appropriate indicators ou	0	1=Negligible

#### Integrity scale:

- 1 Bad state of preservation, but no contextual information
- 2 Bad state of preservation and includes contextual information
- 3 Reasonable state of preservation, but no contextual information
- 4 Reasonable state of preservation and includes contextual information
- 5 Good state of preservation, but no contextual information
- 6 Good state of preservation and includes contextual information
- 7 Excellent state of preservation, but no contextual information
- 8 Excellent state of preservation and includes contextual information

#### Field-rating = Cultural significance x Integrity

= 1 (Negligible) x 3 = 3

The field rating therefore is Local Grade IIIC. The description in the phase 1 heritage report is seen as sufficient recording (low significance) and it may be granted destruction at the discretion of the relevant heritage authority without a formal permit application, subjected to the granting of Environmental Authorisation.

## **10.CONCLUSION AND RECOMMENDATIONS**

The heritage survey in the indicated area was completed successfully. Only one site was identified (Figure 25) within the corridor, but it lies about 40 m from the line and is of low heritage significance.



Figure 25: Location of the site identified during the survey.

The following is recommended:

- 1. Site no 1 (clay-built building) is of low significance and may thus be demolished if necessary.
- 2. However, it is highly unlikely that this would be needed, and it can be left to deteriorate naturally.
- 3. The proposed project may therefore continue, but only after receiving comments from SAHRA.
- 4. From a heritage perspective there is no specific preference for any of the two alternatives.

- 5. In any event, once the pylon positions have been finalized, a walk down study would be needed to confirm that nothing of heritage value is being compromised.
- 6. It should be noted that the subterranean presence of archaeological and/or historical sites, features or artefacts is always a distinct possibility. Care should therefore be taken when development commences that if any of these are discovered, work on site immediate cease and a qualified archaeologist be called in to investigate the occurrence.

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#### **APPENDIX A**

#### **DEFINITION OF TERMS:**

Site: A large place with extensive structures and related cultural objects. It can also be a large assemblage of cultural artefacts, found on a single location.

Structure: A permanent building found in isolation or which forms a site in conjunction with other structures.

Feature: A coincidental find of movable cultural objects.

Object: Artefact (cultural object).

(Also see Knudson 1978: 20).

#### APPENDIX B

#### **DEFINITION/ STATEMENT OF HERITAGE SIGNIFICANCE:**

- Historic value: Important in the community or pattern of history or has an association with the life or work of a person, group or organization of importance in history.
- Aesthetic value: Important in exhibiting particular aesthetic characteristics valued by a community or cultural group.
- Scientific value: Potential to yield information that will contribute to an understanding of natural or cultural history or is important in demonstrating a high degree of creative or technical achievement of a particular period
- Social value: Have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.
- Rarity: Does it possess uncommon, rare or endangered aspects of natural or cultural heritage.
- Representivity: Important in demonstrating the principal characteristics of a particular class of natural or cultural places or object or a range of landscapes or environments characteristic of its class or of human activities (including way of life, philosophy, custom, process, land-use, function, design or technique) in the environment of the nation, province region or locality.

## APPENDIX C

#### SIGNIFICANCE AND FIELD RATING:

#### **Cultural significance:**

- Low A cultural object being found out of context, not being part of a site or without any related feature/structure in its surroundings.
- Medium Any site, structure or feature being regarded less important due to a number of factors, such as date and frequency. Also any important object found out of context.
- High Any site, structure or feature regarded as important because of its age or uniqueness. Graves are always categorized as of a high importance. Also any important object found within a specific context.

#### Heritage significance:

- Grade I Heritage resources with exceptional qualities to the extent that they are of national significance
- Grade II Heritage resources with qualities giving it provincial or regional importance although it may form part of the national estate
- Grade III Other heritage resources of local importance and therefore worthy of conservation

#### Field ratings:

National Grade I significance Provincial Grade II significance Local Grade IIIA	should be managed as part of the national estate should be managed as part of the provincial estate should be included in the heritage register and not be mitigated (high significance)
General protection A (IV A)	site should be mitigated before destruction (high/ medium significance)
General protection B (IV B)	site should be recorded before destruction (medium significance)
General protection C (IV C)	phase 1 is seen as sufficient recording and it may be demolished (low significance)

### APPENDIX D

#### **PROTECTION OF HERITAGE RESOURCES:**

#### Formal protection:

National heritage sites and Provincial heritage sites – grade I and II Protected areas - an area surrounding a heritage site Provisional protection – for a maximum period of two years Heritage registers – listing grades II and III Heritage areas – areas with more than one heritage site included Heritage objects – e.g. archaeological, palaeontological, meteorites, geological specimens, visual art, military, numismatic, books, etc.

#### **General protection:**

Objects protected by the laws of foreign states Structures – older than 60 years Archaeology, palaeontology and meteorites Burial grounds and graves Public monuments and memorials

## APPENDIX E

#### HERITAGE IMPACT ASSESSMENT PHASES

- 1. Pre-assessment or scoping phase establishment of the scope of the project and terms of reference.
- 2. Baseline assessment establishment of a broad framework of the potential heritage of an area.
- 3. Phase I impact assessment identifying sites, assess their significance, make comments on the impact of the development and makes recommendations for mitigation or conservation.
- 4. Letter of recommendation for exemption if there is no likelihood that any sites will be impacted.
- 5. Phase II mitigation or rescue planning for the protection of significant sites or sampling through excavation or collection (after receiving a permit) of sites that may be lost.
- 6. Phase III management plan for rare cases where sites are so important that development cannot be allowed.

## **APPENDIX F/SITE NOTICES**



Example of site notices – this one at the Merensky substation.



Wording of site notice.