

# Archaetnos Culture & Cultural Resource Consultants BK 98 09854/23

## FOR A PROPOSED STORAGE FACILITY DEVELOPMENT A REPORT ON A HERITAGE IMPACT ASSESSMENT PORTION 72 OF THE FARM BULTFONTEIN 533 JQ, NEAR LANSERIA, GAUTENG

For:

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REPORT: AE01226P

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survey of study areas, the nature of archaeological and historical sites are as such that Although all possible care is taken to identify all sites of cultural importance during the it always is possible that hidden or subterranean sites could be overlooked during the study. Archaetnos and its personnel will not be held liable for such oversights or for costs incurred as a result thereof.

The South African Heritage Resources Agency (SAHRA) or one of its subsidiary bodies needs to comment on this report and clients are advised not to proceed with any action before receiving these.

#### SUMMARY

heavy machinery on Portion 72 of the farm Bultfontein 533 JQ near Lanseria in Gauteng. A 1ha area will be utilized for this purpose, with the exact area not chosen yet. Impact Assessment for a proposed development of a Storage Facility and Parking area for Archaetnos cc was requested by JW Environmental Solutions (Pty) Ltd to conduct a Heritage

recommendations regarding the mitigation of impacts on these sites are given at the end of were recorded during the site assessment. These sites are discussed in the report, while there has been some disturbance, a number of sites of some cultural heritage significance agricultural activities, as well as some (informal) residential dumping. However, although this document. The area has been fairly extensively disturbed in the recent past by rural/urban developments,

the proposed development. from a Cultural Heritage point of view, there would be no objection to the continuing of If the recommendations put forward at the end of this document are implemented, then,

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# NTRODUCTION

1ha area will be utilized for this purpose, with the exact area not chosen yet. heavy machinery on Portion 72 of the farm Bultfontein 533 JQ near Lanseria in Gauteng. A Impact Assessment for a proposed development of a Storage Facility and Parking area for Archaetnos cc was requested by JW Environmental Solutions (Pty) Ltd to conduct a Heritage

there has been some disturbance, a number of sites of some cultural heritage significance agricultural activities, as well as some (informal) residential dumping. However, although were recorded during the site assessment. These sites include a number of homestead The area has been fairly extensively disturbed in the recent past by rural/urban developments.

the assessment was to be confined to this. The client indicated the boundaries of the area that will be affected by the development and

# TERMS OF REFERENCE

The Terms of Reference for the survey were to:

- Identify all objects, sites, occurrences and structures of an archaeological or historical nature (cultural heritage sites) located in the area of the proposed development
- 2 Assess the significance of the cultural resources in terms of their archaeological historical, scientific, social, religious, aesthetic and tourism value.
- က Describe the possible impact of the proposed development on these cultural remains, according to a standard set of conventions
- 4. Propose suitable mitigation measures to minimize possible negative impacts on the cultural resources, should this be applicable.
- S Review applicable legislative requirements

# ç LEGISLATIVE REQUIREMENTS

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

# 3.1 The National Heritage Resources Act

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

- á Archaeological artifacts, structures and sites older than 100 years
- 6 9 Ethnographic art objects (e.g. prehistoric rock art) and ethnography
- Objects of decorative and visual arts

- Military objects, structures and sites older than 75 years
- : h @ Historical objects, structures and sites older than 60 years
- Proclaimed heritage sites
- 立砲 Grave yards and graves older than 60 years
- Meteorites and fossils
- Objects, structures and sites or scientific or technological value

# The national estate includes the following:

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

circumstances: (AIA) only looks at archaeological resources. An HIA must be done under the following possible impact of the proposed development thereon. An Archaeological Impact Assessment whether any heritage resources are located within the area to be developed as well as the A Heritage Impact Assessment (HIA) is the process to be followed in order to determine

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

#### Structures

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

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

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

# 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):

- ä archaeological or palaeontological site or any meteorite destroy, damage, excavate, alter, deface or otherwise disturb any
- 5 any archaeological or palaeontological material or object or any meteorite; destroy, damage, excavate, remove from its original position, collect or own
- Ċ meteorite; or any category of archaeological or palaeontological material or object, or any trade in, sell for private gain, export or attempt to export from the Republic
- 9 equipment for the recovery of meteorites. equipment or any equipment that assists in the detection or recovery of metals or archaeological and palaeontological material or objects, or use such bring onto or use at an archaeological or palaeontological site any excavation
- 0 alter or demolish any structure or part of a structure which is older than 60 years as protected

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

## Human remains

Graves and burial grounds are divided into the following

- ancestral graves
- 9 5 royal graves and graves of traditional leaders
- graves of victims of conflict
- d. graves designated by the Minister
- historical graves and cemeteries
- f.e human remains

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

- $\dot{\sigma}$ thereof which contains such graves; otherwise disturb the grave of a victim of conflict, or any burial ground or part destroy, damage, alter, exhume or remove from its original position of
- Ò, destroy, damage, alter, exhume or remove from its original position or situated outside a formal cemetery administered by a local authority; or otherwise disturb any grave or burial ground older than 60 years which is
- Ö metals. any excavation, or any equipment which assists in the detection or recovery of bring onto or use at a burial ground or grave referred to in paragraph (a) or (b)

the old Transvaal Ordinance no. 7 of 1925). standards set out in the Ordinance on Excavations (Ordinance no. 12 of 1980) (replacing Act (Act 65 of 1983) and to local regulations. Exhumation of graves must conform to the Human remains that are less than 60 years old are subject to provisions of the Human Tissue

police. Furthermore, permission must also be gained from the various landowners (i.e. where Permission must also be gained from the descendants (where known), the National the graves are located and where they are to be relocated to) before exhumation can take Department of Health, Provincial Department of Health, Premier of the Province and local

under the Human Tissues Act (Act 65 of 1983 as amended). Human remains can only be handled by a registered undertaker or an institution declared

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

# 3.2 The National Environmental Management Act

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

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

# 4. METHODOLOGY

# **4.1** Survey of literature

bibliography. archaeological and historical context. The sources consulted in this regard are indicated in the A survey of literature was undertaken in order to place the development area in an

## 4.2 Field survey

are also taken where needed. of any site is determined by means of a Global Positioning System (GPS), while photographs historical) significance in the area of proposed development. If required, the location/position aimed at locating all possible objects, sites and features of cultural (archaeological and The survey was conducted according to generally accepted HIA/AIA practices and was

The survey was undertaken mainly on foot, although certain portions were traversed by vehicle

## 4.3 Oral histories

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

# 4.4 Documentation

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

# 5. DESCRIPTION OF THE AREA

specific area not yet decided on. The proposed development area is located on Portion 72 of the farm Bultfontein 533 JQ near for heavy machinery. A 1ha area of the farm will be utilized for these purposes, with the Lanseria, Gauteng Province. The development will entail a Storage Facility and Parking area

structures/homesteads in the area are shown on this map. No grave sites or other historical features are indicated. The area is also currently being used for cattle grazing by local Broederstroom) dating to 2001 indicates very little agricultural activity, while ruins and other has also taken place to some degree. The 1:50 000 topographic map of the area (2527DD (ploughing visible), rural residential and other developments. Informal residential dumping tree cover exists. The area has been disturbed in the past through some agricultural activities The area is located on a low ridge and is characterized by fairly open grassveld. Very little



Figure 1: Site Locality Map (courtesy JW Environmental Solutions (Pty) Ltd).

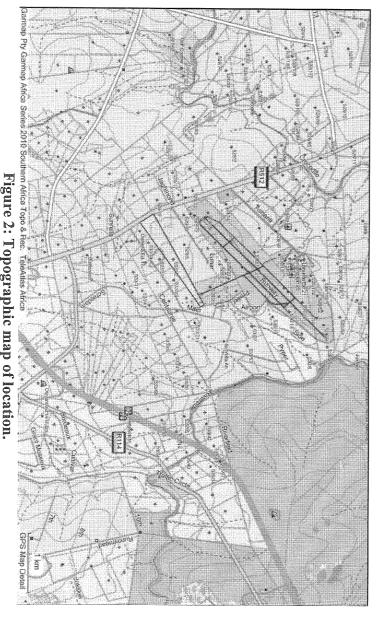


Figure 2: Topographic map of location.

Note the close proximity to Lanseria airport (Map Source 2010).

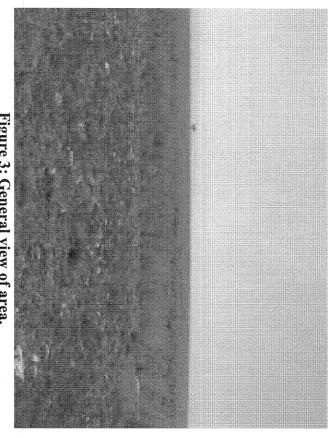


Figure 3: General view of area.

Note the open grass veldt and sparse tree cover.

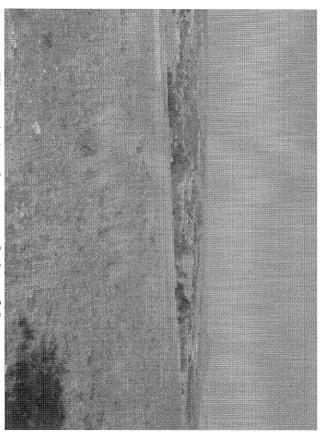


Figure 4: Another general view of the area.

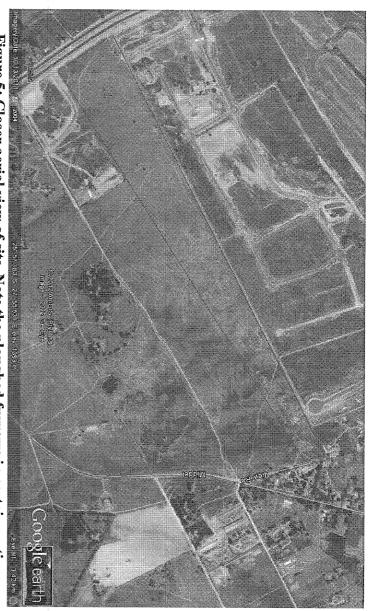


Figure 5: Closer aerial view of site. Note the ploughed furrows in certain sections (Google Earth 2011).

# 6. DISCUSSION

following section. A short, general, background to the archaeology and history of the area is given in the

#### 6.1 Stone Age

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

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.

Included here is a number of rock engraving sites (Bergh 1999: 5). Research Area to the north of the development area (Bergh 1999: 4). The sites date from the including Pietkloof and Uitkomst Cave, as well as sites in the so-called development. There is however a number of Stone Age sites in the larger geographical area, No Stone Age sites (Bergh 1999: 4) are known to be located in the direct area of Early to Later Stone Age and are found mostly in caves/shelters and not in open areas.

#### 6.2 Iron Age

separate phases according to Van der Ryst & Meyer (1999: 96-98), namely: to produce artifacts (Coertze & Coertze 1996: 346). In South Africa it can be divided in two The Iron Age is the name given to the period of human history when metal was mainly used

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

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Early Iron Age (EIA) 250 – 900 A.D.
Middle Iron Age (MIA) 900 – 1300 A.D.
Late Iron Age (LIA) 1300 – 1840 A.D.
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dating to Olifantspoort are also located at Broederstroom. geographical area (Huffman 2007: 167; 171; 191 & 203). During the difaqane, Mzilikazi's belonging to the Ntsuanatsatsi facies of the Urewe tradition (AD1450-AD1650), the Uitkomst facies of the same tradition (AD1650-AD1820), the Olifantspoort facies of Urewe (AD1500are found at Bruma and Melvillekoppies (Bergh 1999: 7). It's also possible that sites pottery tradition and dates to AD450 - AD750 (Huffman 2007: 127). The closest LIA sites known Iron Age site (EIA) is situated at Broederstroom to the north of the study area (Bergh No Iron Age sites, features or artifacts are located in the development area. The closest Ndebele moved through and settled in the area between 1827 & 1832 (Bergh 1999: 11). Sites AD1700) and the Buispoort facies of Urewe (AD1700-1840) could be found in the larger 1999: 6). The Broederstroom site belongs to the so-called Mzonjani facies of the Urewe

# 6.3 Historical Age

both during 1829 (Bergh 1999: 12). They were closely followed by others, including the Voortrekkers after 1844 (Bergh 1999: 13-14). groups of Schoon & McLuckie and those of Archbell & Moffat (the famous missionaries), write moved into the area. The earliest Europeans who moved through the area were the In essence the historical age in South Africa starts when the first people who could read and

#### Site I

significance. It is also possible that the rubble was dumped here and is not the remains of a also located in close proximity. The material here are modern and not of any historical structure that was present here in the recent past. could be the remnants of structure (farm labourer house?). Some refuse (household) pits were This site contains a fairly dense concentration of building rubble (bricks and cement) that

Site Location: S25.95384 E27.91865

Significance: Low. Completely destroyed.

Impact & Mitigation: Direct if development footprint located here. No mitigation needed.

#### Site 2

60 years of age. Site 2 consists of the cement foundation and floor of a structure of unknown age and function. It is believed that this structure is once again not of any significance and less than

Site Location: S25.95286 E27.92034 Significance: Low

required. Impact & Mitigation: Direct if development footprint located here. No mitigation

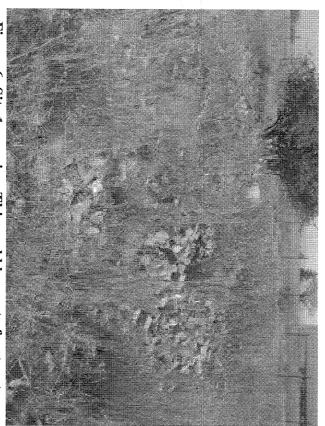


Figure 6: Site 1 remains. This could be part of a structure or just further evidence of informal dumping in the area.

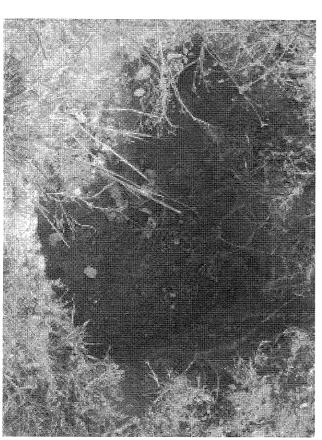


Figure 7: Rubbish pit near Sites 1 and 2.



Figure 8: Site 2 cement floor and foundation of structure

#### Sites 3 & 4

probably the remains of farm labour houses. be older than 60 years of age and related to earlier farming in the area. The structures are material was located close by to help with dating these. It is however possible that they could some parts more than 1m in height. The age of the structures is not known, and no cultural consist of at least 2 rooms each and has been fairly well preserved, with the walls being in of one site. Both consist of the remains of stone and clay built structures. The structures Although recorded separately (via GPS coordinates) these two features most likely form part

Site Locations: S25.95570 E27.91572 & S25.95522 E27.91563

Cultural Significance: Medium

Heritage Significance: Grade III

implemented. Mitigation will include mapping and drawing and detailed recording. Impact & Mitigation: If impacted on by development mitigation measures will have to be Field Rating: General Protection IVB. Should be mitigated before destruction Archival research

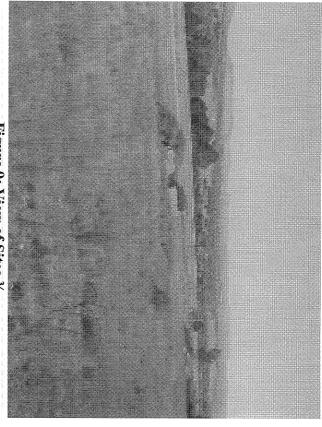


Figure 9: View of Sites 3/4.

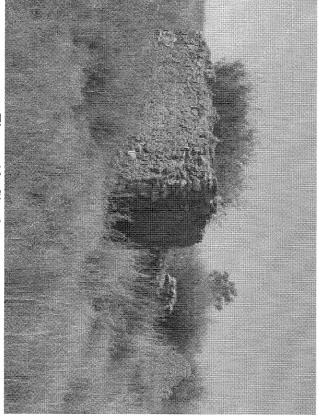


Figure 10: Site 3 structure.

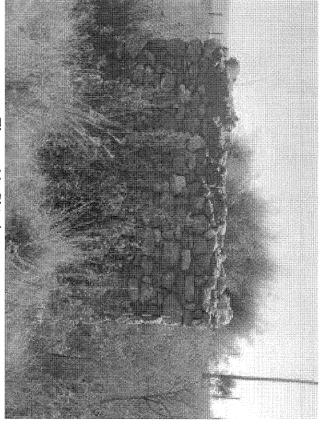


Figure 11: Site 4 structure.

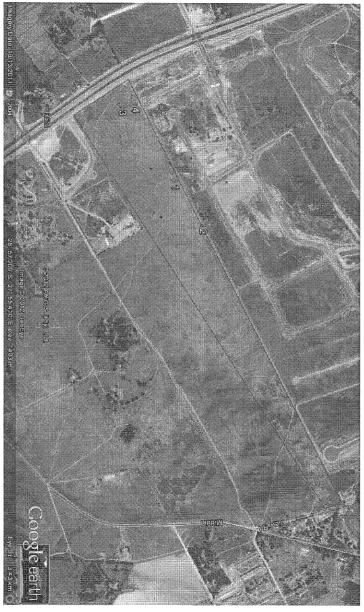


Figure 12: Distribution of sites in development area (Google Earth 2011).

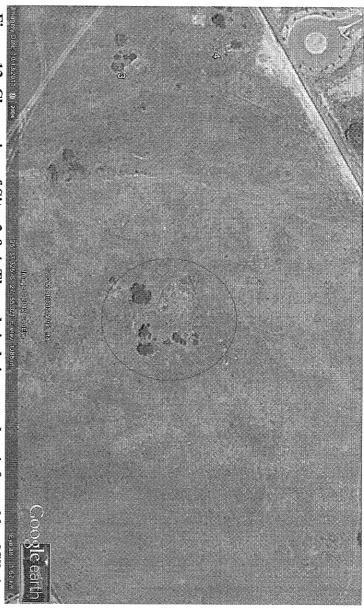


Figure 13: Closer view of Sites 3 & 4. The red circle is around an informal landfill site in the area (Google Earth 2011).

work commences that if any possible graves are identified that they be reported to a heritage low stone packed graves (Pelser 2011). Care should therefore be taken when development indicate that they saw what might be graves, although they could not substantiate and did not information on which portion and the exact location. Previous work by Anton Pelser in the Bultfontein near Lanseria in the Krugersdorp district. It does not however provide Society of SA (www.national.archives.gov.za) does indicate that there are graves present on possibility of the presence of graves close-by. Furthermore the database of the Genealogical take any GPS coordinates. With homesteads in the area (Sites 3 and 4) there is always the Although no graves or grave sites were recorded in the area during the survey the client did Lanseria area (on bordering farms) did locate a number of grave sites, mainly consisting of

# 7. CONCLUSIONS AND RECOMMENDATIONS

be selected for development purposes. A number of sites of some cultural significance were mitigation measures will have to be implemented. located and recorded in the area. Should the development impact on these sites (Sites 3 and 4) machinery near Lanseria in Gauteng was conducted successfully. A 1ha area on the farm will 533 JQ, for the proposed development of a Storage Facility and Parking Area for heavy In conclusion it is possible to say that the assessment of Portion 72 of the farm Bultfontein

The following is recommended:

• that the structures on these sites be mapped and recorded in detail. As part of the recording detailed archival research on the history of the sites will have to be undertaken.

2 should there be no direct impact as a result of the development activities these implemented should any further sites, features (such as previously unknown during development activities. graves or grave sites) and cultural material of significance be uncovered implemented. sites must be left in tact and a Heritage Management Plan be drafted in This management plan will also look at measures to be

accidentally discovered, a qualified archaeologist be called in to investigate. This would include the discovery of previously unknown graves. therefore be taken during any development activities that if any of these are historical sites, features or artifacts are always a distinct possibility. Care should Finally, it should be noted that the subterranean presence of archaeological and/or

# 8. REFERENCES

Locality map provided by JW Environmental Solutions (Pty)Ltd

Aerial views of the area and location of sites: Google Earth 2011

Topographic location of development area: Map Source 2010

1:50 000 Topographic Map Series: 2527DD Broederstroom (2001)

provinsies. Pretoria: J.L. van Schaik. Bergh, J.S. (red.). 1999. Geskiedenisatlas van Suid-Afrika. Die vier noordelike

Coertze, P.J. & Coertze, R.D. 1996. Verklarende vakwoordeboek vir Antropologie en Argeologie. Pretoria: R.D. Coertze.

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Republic of South Africa. 1999. Pretoria: the Government Printer. National Heritage Resources Act (No 25 of 1999)

Republic of South Africa. 1998. National Environmental Management Act (no 107 of 1998). Pretoria: The Government Printer.

Van der Ryst, M.M. & Meyer, A. 1999. Die Ystertydperk. Bergh, J.S. (ed.). Geskiedenisatlas van Suid-Afrika. Die vier noordelike provinsies. Pretoria: J.L. van Schaik.

www.national.archives.gov.za

## APPENDIX A

## DEFINITIONS:

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

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

Feature: Means a coincidental find of movable cultural objects.

Object: Means an Artifact (cultural object).

(Also see Knudson 1978: 20).

## APPENDIX B

# DEFINITIONS/STATEMENTS OF HERITAGE SIGNIFICANCE:

Historic value: with the life or work of a person, group or organization of importance in Important in the community or pattern of history or has an association

Aesthetic value: Important in exhibiting particular aesthetic characteristics valued by a

community or cultural group.

Scientific value: natural or cultural history or is important in demonstrating a high degree Potential to yield information that will contribute to an understanding of

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: technique) in the environment of the nation, province region or locality. way of life, philosophy, custom, process, land-use, function, design or environments characteristic of its class or of human activities (including class of natural or cultural places or object or a range of landscapes or Important in demonstrating the principal characteristics of a particular

## APPENDIX C

# SIGNIFICANCE AND FIELD RATING:

#### jamesh. Cultural significance:

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

#### N Heritage significance:

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

#### Ç Field ratings:

- National Grade I significance: Should be managed as part of the national estate.
- Provincial Grade II significance: Should be managed as part of the provincial
- Local Grade IIIA:
- not be mitigated (high significance). Should be included in the heritage register and
- medium significance). Site should be mitigated before destruction (high/ may be mitigated (high/ medium significance). Should be included in the heritage register and

•

General protection A (IV A):

0

Local Grade IIIB:

- Site should be recorded before destruction (medium significance).
- demolished of (low significance). existing structure and it may therefore be Phase 1 is seen as a sufficient recording of the
- General protection C (IV C):

General protection B (IV B):

## APPENDIX D

# PROTECTION OF HERITAGE RESOURCES:

# 1. Formal protection:

Formal protection is applicable to the following:

- National heritage sites and Provincial heritage sites grades I and II
- Protected areas which is described as an area surrounding a heritage site
- Provisional protection described as protection for a maximum period of two years
- Heritage registers listings of grades II and III
- Heritage areas areas which include more than one heritage site
- meteorites, geological specimens, visual art, military, numismatic and books. Heritage objects - heritage objects include inter alia archaeological, paleontological,

# 2. General protection:

General protection is applicable to:

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

## APPENDIX E

# HERITAGE IMPACT ASSESSMENT PHASES

- and the terms of reference. Phase 1: Pre-assessment or scoping phase - the establishment of the scope of the project
- heritage of an area. Phase 2: Baseline assessment - the establishment of a broad framework of the potential
- recommending mitigation measures or the conservation thereof. significance, commenting on the potential impact of the proposed development and Phase 3: Assessment of potential impacts – the identification of sites, assessment of their
- likelihood exists that any sites will be impacted upon. Phase 4: Letter of recommendation for exemption –submitted in the event that no
- through excavation or collection (after receiving a permit) of sites that may be lost. Phase 5: Mitigation or rescue – planning the protection of significant sites or sampling
- sites are regarded as of high importance such that development cannot be permitted Phase 6: Compilation of and implementation of a management plan – in rare cases where unconditionally.