PORTION OF PORTION 19 OF THE FARM WITTEKLIP NO. 123 PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENT **VREDENBURG**

Prepared for

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RITAGE RESOURCE MANAGEMENT SERVICE

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Executive summary

A Phase 1 Archaeological Impact Assessment of a Portion of Portion 19 of the Farm Witteklip No. 123 in Vredenburg has identified no significant impacts to pre-colonial archaeological material that will need to be mitigated prior to proposed development

Apart from one quartz chunk and one quartz flake, no archaeological heritage remains were located during the baseline study.

Farm archaeological material as being low provided that: The specialist archaeological impact assessment of a Portion of Portion 19 of the Witteklip No. in Vredenburg has rated the potential impacts to

- A professional palaeontologist is appointed to assess the possible palaeontological significance of fossiliferous material on the property if underlying limestone deposits are intercepted during earth-moving operations.
- . Should any unmarked human remains be disturbed, exposed or uncovered during earthworks, these should immediately be reported to the South African Heritage Resources Agency (Mrs Mary Leslie 462 4502), or Heritage Western Cape (Dr. A. Jerardino 483 9687).

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1. INTRODUCTION

1.1 Background and brief

BVZ Professional Planning Consultants, on behalf of Silver Crow Properties 22, requested that the Agency for Cultural Resource Management conduct a Phase 1 Archaeological Impact Assessment (AIA) for a proposed housing development on a Portion of Portion 19 of the Farm Witteklip No. 123 in Vredenburg on the Cape West Coast.

The proposed rezoning and subdivision of the affected property is for the purpose of a residential housing development consisting of 292 single residential and group housing units, including public open space, internal streets and services. The property is currently zoned Agricultural.

The extent of the proposed development (nearly 27 ha) falls within the requirements for an archaeological impact assessment as required by Section 38 of the South African Heritage Resources Act (No. 25 of 1999).

may be negatively impacted by the planning, construction and implementation of the proposed project, to assess the significance of the potential impacts and to propose The aim of the study is to locate and map archaeological heritage sites/remains that measures to mitigate against the impacts.

Heritage Consultant Mr Chris Snelling has submitted a NID (Notification of Intent to Develop) checklist to Heritage Western Cape Built Environment and Landscape Committee (BELCOM). The BELCOM Record of Decision dated 10-08-2006 Heritage Western Cape for comment. recommended that an archaeological impact assessment be done, and submitted to 10-08-2006

N TERMS OF REFERENCE

The terms of reference for the archaeological study were:

- significance within the proposed site; determine whether there are likely ð 0 any archaeological sites ₫,
- 0 to identify and map any sites of archaeological significance within the proposed
- within the proposed site: to assess the sensitivity and conservation significance of archaeological sites
- . development, and to assess the status and significance of any impacts resulting from the proposed
- . archaeological sites that may exist within the proposed site mitigatory measures Ö protect and maintain any valuable

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3. THE STUDY SITE

A locality map is illustrated in Figure 1.

An aerial photograph of the proposed site is illustrated in Figure 2

south and west. of Portion 19 of the Farm 123). The proposed site is severely degraded and disturbed property, there are no significant landscape features on the site. site is via Welgemoed Street. The proposed site slopes gently to the north west and comprises terraced agricultural lands that are currently planted with Canola (Figures increasing residential development to the north and east, and rural farmland to the having been located alongside the south western boundary of the property (i.e. on the remainder The subject property is located south west of the town of Vredenburg. Access to the Other than two small, flat granite domes in the south western portion of the erty, there are no significant landscape features on the site. The Bok River is farmed o, many years. Surrounding and use comprises rapidly

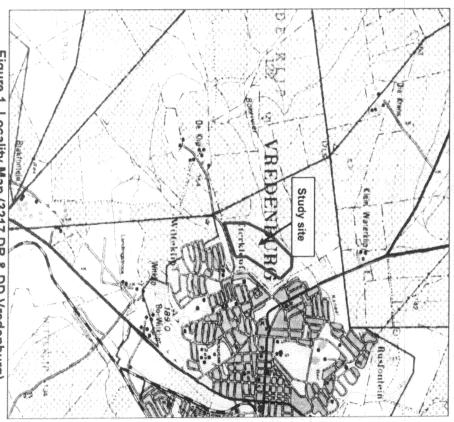


Figure 1. Locality Map (3217 DB & DD Vredenburg)

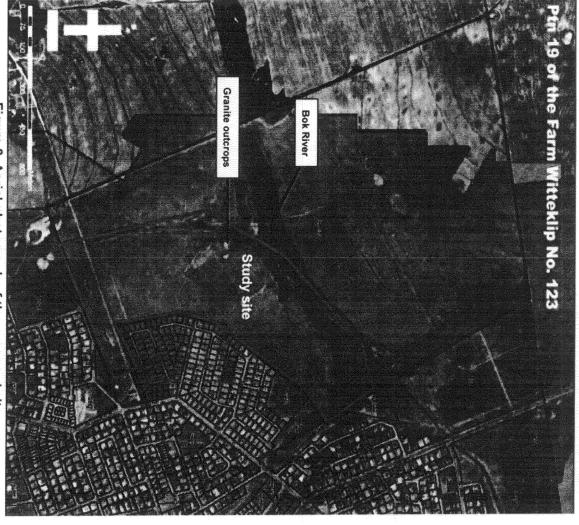


Figure 2. Aerial photograph of the proposed site

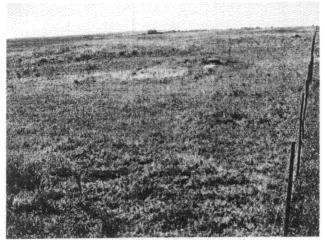


Figure 3. View of the site facing north

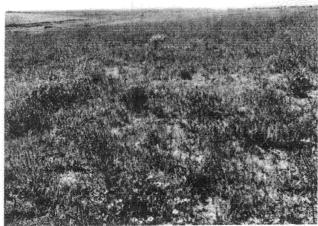


Figure 4. View of the site facing north west

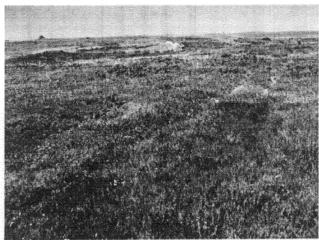


Figure 5. View of the site facing north east



Figure 6. View of the site facing north.

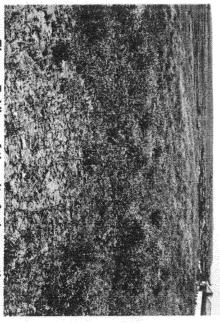


Figure 7. View of the site facing north

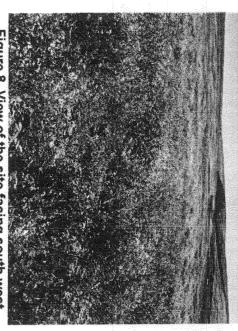


Figure 8. View of the site facing south west

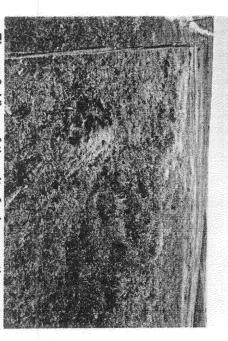


Figure 9. View of the site facing south west

4. STUDY APPROACH

4.1 Method

proposed site The approach followed in the archaeological study entailed a foot survey of the

The site visit and assessment took place on the 30th August, 2006

A desktop study was also undertaken

4.2 Constraints and limitations

visibility The subject property is covered with Canola, resulting in poor archaeological

4.3 Identification of potential risks

excavations Unmarked human burials may be uncovered or exposed during earthworks and

excavations Vertebrate fossils may possibly be uncovered or exposed during earthworks and

4.4 Results of the desk top study

Khoi herders in the past, as it offered greater opportunities for the exploitation of marine foods, while the local shales and granites provided vital nutrients for domestic (Kaplan 1993). Its richness is determined largely by its unique rocky shoreline formation which was favoured by both Later Stone Age (LSA) hunter-gatherers and Saldanha Bay/Vredenburg region is exceptionally rich in archaeological sites plan 1993). Its richness is determined largely by its unique rocky shoreline

Vredenburg Peninsula has, significantly, identified large numbers of sites up to several kilometres from the shoreline (Sadr et al 1992). Many of these sites, comprising substantial shellfish deposits with pottery and stone tools, are centered Research focusing on the Khoekhoe herder economy around 2000 years ago in the round the numerous large granite outcroppings Vredenburg, Paternoster and the St. Helena Bay area. that are ubiquitous in the

development, and has already been seriously impacted on by human activity below the water tower in Vredenburg. (Smith et al 1991). The site is su It is important to note that several such sites have been identified on the Farm Witklip The Witklip LSA site is located about 450m north east of the subject property, <u>al</u> 1991). rg. The site has been dated to about 3000 BP surrounded by rapidly increasing residential

preserved archaeological deposits were recorded in the lee of a small granite boulder during the course of a survey of a proposed housing development on Erf 8995¹ (part of the Witteklip Farm). Relatively large numbers of LSA stone tools and pottery were also documented on the talus in front of the round boulder. More recently, substantial numbers of LSA tools and some pottery was documented a Portion of Portion 7 of the Farm Witteklip 123 (Kaplan 2005). And well-

The development application proposal was withdrawn, and the relevant archaeological impact report was therefore not submitted to Heritage Western Cape.

the development of modern human behaviour during the Middle Stone Age (MSA) and perhaps even the Early Stone Age (ESA) (Avery 1997). the sedimentary, chronological, palaeoenvironmental and palaeoecological context of It is also well established that vertebrate fossils and archaeological occurrences in Saldanha Bay/Vredenburg area, are extremely valuable sources of information on Langebaan Limestone (calcrete) formations and associated deposits in the

early modern human about 125 000 years ago (Berger & Parkington 1995). evidence of well preserved bone, ostrich eggshell, ochre and MSA stone implements, the Hoedjiespunt limestone sediments in Saldanha Bay also contains evidence of resources, more than 100 000 years ago (Grine & Klein 1993; Volman 1978). Beside deposits at Sea Harvest, in Saldanha Bay, for example, has provided some of the earliest evidence we have in the world for the human exploitation of coastal Middle Pleistocene occurrences and the recovery of human remains in the limestone

Project exposed rare and previously unknown crocodilian and other fossil remains from the Miocene Period, from deposits underlying calcareous formations during excavations for descaling pits (Roberts 1997a). With regard to even more ancient fossil sites, earthworks at the Saldanha Steel

million – 200 000 years) faunas, including herbivores and carnivores, at Hoedjiespunt and Sea Harvest (Roberts 1997a). Several fossil hyena lairs have also provided glimpses of past Pleistocene (1.6

An EIA for the proposed Alpha Saldanha Cement Project in Saldanha Bay revealed the presence of an unusual Mid-Miocene (~ 11-12 million years) fauna, including the shell of a giant extinct ostrich like bird (Kaplan 1999; Roberts 1997b).

CAG. 5 5 tho character of the aeolianites (fossil dunes) and shallow marine sediments. Bones and which they become entombed implements are readily preserved by the rapid carbonate cementation of the strata in The reasons for the abundance of fossil archaeological and palaeontological remains Saldanha -Vredenburg area is in part related to the highly

5. LEGISLATIVE REQUIREMENTS

The following section provides a brief overview of the relevant legislation with regard to the archaeology of a Portion of Portion 19 of the Farm Witteklip No. 123.

5.1 The National Heritage Resources Act (Act No. 25 of 1999)

The National Heritage Resources (NHR) Act requires that "...any development or other activity which will change the character of a site exceeding 5 000m², or the rezoning or change of land use of a site exceeding 10 000 m², requires an archaeological impact assessment"

The relevant sections of the Act are briefly outlined below

5.2 Archaeology (Section 35 (4))

collect, any archaeological material or object Section 35 (4) of the NHR stipulates that no person may, without a permit issued by destroy, damage, excavate, alter or remove from its original position, Q

5.3 Burial grounds and graves (Section 36 (3))

Section 36 (3) of the HHR stipulates that no person may, without a permit issued by the South African Heritage Resources Agency (SAHRA), destroy, damage, alter, exhume or remove from its original position or otherwise disturb any grave or burial by a local authority. ground older than 60 years, which is situated outside a formal cemetery administered

6. FINDINGS

archaeological sites or remains were located during the baseline study. Other than one quartz chunk and one quartz flake, found in a gravel road alongside boundary fence 5 **=** southern portion of the property, 20 coherent

7. IMPACT STATEMENT

remains is likely to be low The impact of the proposed development on pre-colonial archaeological heritage

to be improbable. during implementation (i.e. the Construction Phase) of the proposed project is likely The probability of locating significant pre-colonial archaeological heritage remains

and excavations. Unmarked human burials may, however, be uncovered or exposed during earthworks

bulk excavations and civil works Vertebrate fossils may, possibly, be exposed in underlying limestone deposits, during

8. RECOMMENDATIONS

Farm Witteklip No. 123 in Vredenburg has archaeological material as being low provided that: The specialist archaeological impact assessment of a Portion of Portion 19 of the rated Ħe potential impacts Ö

- underlying limestone deposits are intercepted during earth-moving operations palaeontological significance of the fossiliferous material on the property professional palaeontologist Ś appointed Ö assess Ħ e possible
- Should any unmarked human remains be disturbed, exposed or uncovered during earthworks, these should immediately be reported to the South African Heritage Resources Agency (Mrs Mary Leslie 462 4502), or Heritage Western Cape (Dr. A. Jerardino 483 9687).

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8. RECOMMENDATIONS

With regard to proposed sand mining operations on the Farm No. 1122 Bordeaux, situated in the Malmesbury District, the following recommendations are made

- are exposed on underlying ferruginous gravels and clay. Monitoring of sand mining operations is required in case Early Stone Age tools Low Frequent ?
- should not be disturbed or removed until inspected by the archaeologist. excavations, and earthworks for the proposed project, these should immediately be reported to the South African Heritage Resources Agency (Mrs Mary Leslie 462 4502), or Heritage Western Cape (Dr A. Jerardino 483 9692). Burial remains Should any human remains be disturbed, exposed or uncovered during

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