0/2-1042/0003

7-10-02

#### PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENT LANGEBAAN COUNTRY ESTATE PROPOSED DEVELOPMENT CAPE WEST COAST LANGEBAAN

Prepared for

# **ENVIROAFRICA**

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SEPTEMBER 2002

### Executive summary

The Langebaan region is a highly sensitive archaeological environment, yet only three artefacts were located during a Phase 1 Archaeological Impact Assessment of the proposed Langebaan Country Estate in Langebaan on the Cape West Coast.

development. proposed project envisages ω golf estate ¥i † high-density residential

clubhouse and golf course. Current development on the property comprises the Langebaan Country Club with

The bulk of the property comprises mainly natural veld. Some disturbance and earthworks occur in places. A few granite outcroppings are dotted around the site.

Dune mole rate activity is extensive

Environmental Constraints Plan to guide proposed development of the property. results of the archaeological assessment will be used compile an

been given low significance ratings. The archaeological remains located during the study are not important and have

The impact of the proposed project on archaeological remains is likely to be low

Human burials and fossil remains may, however, be uncovered or exposed during

vulnerable or threatened. Overall, the receiving environment is not considered to be archaeologically sensitive

With regard to the proposed Langebaan Country Estate development, the following recommendations are made.

- No immediate archaeological mitigation is required
- be inspected for archaeological remains. Future proposed borrow pits and quarry sites servicing the project should
- If excavations penetrate underlying calcrete/limestone deposits, an archaeologist and palaeontologist should be contracted to monitor these activities.

The Langebaan/Saldanha region is well known for extensive fossil sites, which are associated with calcrete beds.

Should any human remains be disturbed, exposed or uncovered during earthworks, these should immediately be reported to a professional archaeologist, or the South African Heritage Resources Agency.

The recommendations are subject to the approval of the South African Heritage Resource Agency (SAHRA).

#### 1. INTRODUCTION

# 1.1 Background and brief

Langebaan Country Estate development in Langebaan, on the Cape West Coast. EnviroAfrica has requested the Agency for Cultural Resource Management to

The proposed project comprises a golf estate, including high-density residential development, in an area of some 320 ha.

proposed project, and to propose measures to mitigate against the impact be negatively impacted by the planning, construction and implementation of the The aim of the study is to locate, identify and map archaeological remains that may

biophysical assessment of the property, be used to compile an Environmental Constraints Plan to guide the proposed development. The results of the archaeological assessment will, together with the botanical, and

# 2. TERMS OF REFERENCE

The terms of reference for the archaeological study were:

- to determine whether there are likely to be any significance on the proposed site; archaeological sites 으
- N to identify and map any sites of archaeological significance on the proposed site;
- $\omega$ the proposed site; to assess the sensitivity and conservation significance of archaeological sites on
- 4. to assess trie so development, and to assess the status and significance of any impacts resulting from the proposed
- sites that may exist on the proposed site 5. to identify mitigatory measures to protect and maintain any valuable archaeological

### 3. THE STUDY SITE

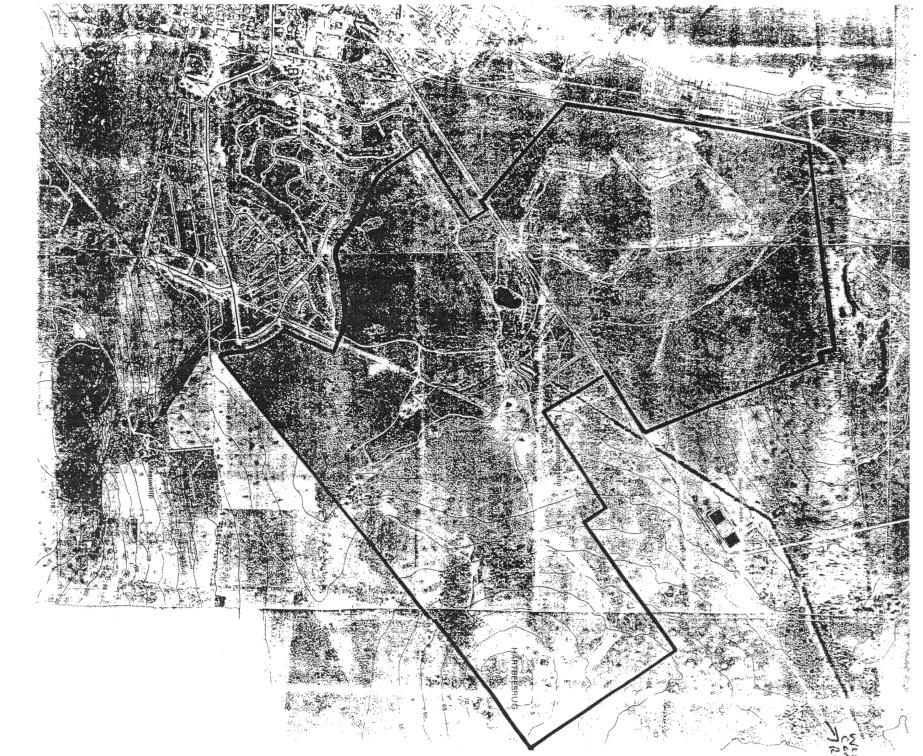
The study site for the proposed development is illustrated in Figure 1.

The property is located on either side of the road coming into Langebaan from the R27 (West Coast Road), just a few kilometre's from the entrance to the town.

clubhouse and 12-hole golf course spread over both properties The property is the site of the Langebaan Country Club, which currently comprises a

The bulk of the 320 ha site comprises mainly natural veld (Figures 2 & 3)

A few granite outcrops are dotted around the site.



Phase divilupment, Archaeological (a) ha Pascara min Est. site

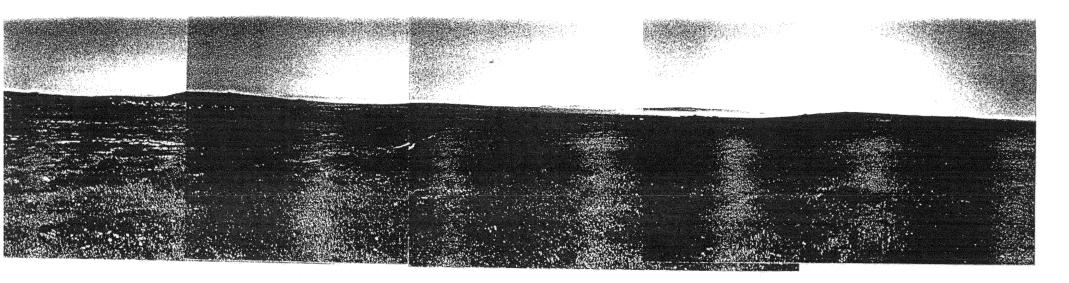


Figure 2. Phase 1 Archaeological Impact Assessment, proposed development, Langebaan Country Estate. The study site looking west.

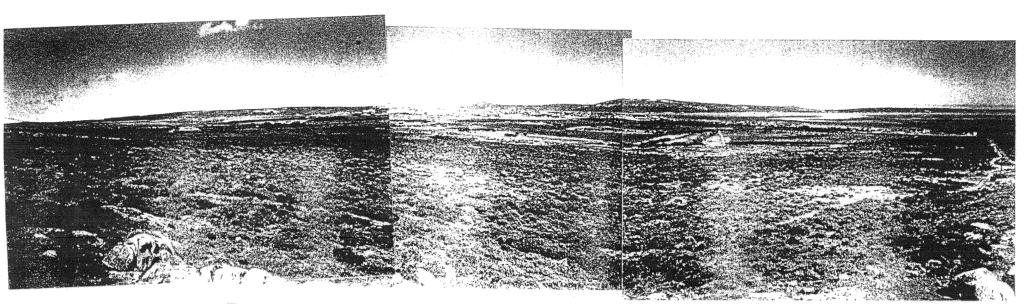


Figure 3. Phase 1 Archaeological Impact Assessment, proposed development, Langebaan Country Estate. The study site facing looking south-west.

Two borrow pits occur in the far north-western portion of the property, alongside the

western portion of the site In the large southern portion, smaller excavations are also present, including a a network of gravel roads cuts across the site. present, including a recent sand quarry in the south-Some

that cut across the study area Calcrete/limestone beds and loose pieces of calcrete are visible in the gravel roads

Dune mole rat activity is extensive on the site.

# 4. APPROACH TO THE STUDY

the property The approach used in the archaeological study entailed a systematic foot survey of

known locations of early Khoi herder sites (Sadr et al 1992). Particular attention was paid to searching the area around the granite outcroppings

A desktop study was undertaken.

#### O LANGEBAAN BRIEF OVERVIEW OF 甘雨 **ARCHAEOLOGICAL** SIGNIFICANCE 유

1992; Kaplan 1999; Parkington & Poggenpoel 1987). Excavations and studies have shown that the rocky shoreline at Lentjiesklip and Lynch Point acted as a foci that attracted Later Stone Age¹ (LSA) people as they offered greater opportunities for the exploitation of marine foods particularly shellfish (Hart 1991; Kaplan 2000). Archaeological visibility in Langebaan is extremely high (Kaplan 1993). More than 40 sites have been recorded between Lentjiesklip 1 and Lynch Point (Hart & Halkett

tidal zone shellfish such as limpets and perlemoen (Hart 1991). also suggests that LSA people may have been scheduling their visits to collect lower was consumed, as well as seals, fish, bird, tortoise and small antelope. involved people locating themselves at the coast where large quantities of shellfish The archaeology suggests that the pattern of occupation of the Langebaan area Evidence

Excavations at Lentjiesklip 4 (Parkington et al 1988) and Lentjiesklip 2 (Hart 1991) show that some of the sites in the region date to between 4000 and 1800 years ago (Hart 1991), some of which have been found buried up to three metres below the sand body. The domestic and material cultural items generated from these and other excavations, indicate a wide range of human responses to opportunities and needs

Lentjiesklip 2 (Hart 1991) human burial was also uncovered during excavation of ω service trench at

A term referring to the final 20 000 years of precolonial history in southern Africa

sedimentary, chronological, palaeoenvironmental and palaeoecological context of the development of modern human behaviour during the Middle Stone Age<sup>2</sup> (MSA) and perhaps even the Early Stone Age<sup>3</sup> (ESA) (Avery 1997). the Langebaan Limestone (calcrete) formations and associated deposits in the also well established that vertebrate fossils and archaeological occurrences in Bay area, are extremely valuable sources of information

among the oldest modern human footprints in the world. dunes at Kraalbaai on the western shores of the Langebaan Lagoon (Roberts 1996), More recently, 120 000 year old fossil footprints were discovered in ancient fossil

coastal resources, more than 100 000 years ago (Grine & Klein 1993; Volman 1978). some of the earliest evidence we have in the world for the human exploitation of Langebaan Limestone deposit at Sea Harvest, in Saldanha Bay, has also provided Pleistocene occurrences and the recovery of human remains in the

implements, the Hoedjiespunt limestone sediments in Saldanha Bay also contains evidence of early modern human about 125 000 years ago (Berger & Parkington Beside evidence of well preserved bone, ostrich eggshell, ochre and MSA stone

The younger Mid Pleistocene (~ 250 000 years) Elandsfontein site near Langebaan, a hominid butchery site where ESA and MSA artefacts are found, is also associated with a large and diverse fossil fauna. The partial skull of `Saldanha Man', probably an archaic from of Homo sapiens, was also discovered at this locality (Singer & Wymer

from deposits underlying calcareous formations during excavations for descaling pits (Hendey 1982). Earthworks at the Saldanha Steel Project also exposed rare and previously unknown crocodilian and other fossil remains from the Miocene Period, yielded Mio-Pliocene (~ With regard to ancient fossil sites, The Varswater quarry near Langebaanweg has (Roberts 1997a). 5 million years) fossils of great diversity and quantity

million – 200 000 years) faunas, including herbivores and carnivores, at Hoedjiespunt and Sea Harvest and Besans Klip in Vredenburg (Roberts 1997a). An EIA for the proposed Alpha Saldanha Cement Project in Saldanha Bay also revealed the presence of an unusual Mid-Miocene (~ 11-12 million years) fauna, including the shell of a giant extinct ostrich like bird (Roberts 1997b). Several fossil hyena lairs have also provided glimpses of past Pleistocene (1.6

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

A term referring to the period between 200 000 and 20 000 years ago. A term referring to the period between 2 million and 200 000 years ago.

# 6. RESULTS OF THE ARCHAEOLOGICAL STUDY

portion of the property. One ESA limestone flake was found in a borrow pit opposite the entrance to the Strandloper Restaurant, alongside the Mykonos Road, in the far north-western

One piece of ostrich eggshell was found among a granite outcropping in the extreme north-eastern portion of the property.

pieces of calcrete also occur in the quarry. A possible MSA limestone flake was found in the sand quarry in the south-western portion of the property, but has been badly damaged by quarrying activities. Large

Importance of finds: low

Suggested mitigation: none required

the site, which would otherwise suggest the presence of buried shellfish remains No shellfish remains were found associated with extensive dune mole rat activity on

### 7 IMPACT STATEMENT

archaeological remains is likely to be low impact <u>್</u>ಕ Ħe proposed Langebaan Country Estate development 9

The probability of locating significant archaeological remains during implementation of the project is also likely to be low.

excavations. Remnant sand dunes occur east of the golf clubhouse Human burials may, however, be exposed or uncovered during earthworks and

excavations Fossils may also be exposed in the underlying calcrete/limestone beds, during

# **8 CONCLUDING STATEMENT**

vulnerable, or threatened Overall, the receiving environment is not considered to be archaeologically sensitive

## 9 RECOMMENDATIONS

recommendations are made With regard to the proposed Langebaan Country Estate development, the following

- No immediate archaeological mitigation is required
- be inspected for archaeological remains Future proposed borrow pits and quarry sites servicing the project should
- fossil sites, which are associated with calcrete beds archaeologist and palaeontologist should be contracted to monitor these activities. The Langebaan/Saldanha region is well known for extensive If excavations penetrate the underlying calcrete/limestone deposits,
- . archaeologist, or the South African Heritage Resources Agency. Should any human remains be disturbed, exposed or uncovered during earthworks, these should immediately be reported to a professional reported

should not be removed until inspected by a professional archaeologist Burial remains should be treated sensitively at all times. Human remains

The recommendations are subject to the approval of the South African Heritage Resource Agency (SAHRA).

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