SUNSET BEACH PHASE 7 (ERF 27264) MILNERTON ARCHAEOLOGICAL STUDY PROPOSED DEVELOPMENT

Prepared for

COASTEC

Ву

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Executive summary

baseline archaeological study of erf 27264, Milnerton, on the Cape West Coast One upper grindstone and one broken white mussel scraper were located during a

north-eastern portion of the study site, outside of the proposed development area Some extremely ephemeral fragments of shellfish remains were also located in the

associated infrastructure The proposed Sunset Beach Phase 7 development envisages residential units with

The study site, which is 3.18 ha in extent, is fairly heavily disturbed

considered to be low to negligible impact of the proposed development on archaeological remains/sites

implementation of the project is also considered to be low probability of locating significant archaeological sites/remains Suinnp

Burial remains may, however, be uncovered or disturbed during earthworks

archaeological recommendations are made With regard to the proposed Sunset Beach Phase 7 development, the following

- No archaeological mitigation is required
- ۰ remains should be treated sensitively at all times. Human remains should archaeologist, or the South African Heritage Resources Agency. Should any human remains be disturbed, exposed or uncovered during not be removed until inspected by a professional archaeologist earthworks, these should immediately be reported to a professional
- No further detailed studies are required.

Resource Agency Plans Committee The above recommendations are subject to the approval of the South African Heritage

1.0 INTRODUCTION

1.1 Background

Beach Phase 7 development in Milnerton on the Cape west coast. Resource Management undertake an archaeological study of the proposed Sunset COASTEC Environmental Consultants have requested that the Agency for Cultural

The proposed development envisages residential units, with associated infrastructure

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

2.0 TERMS OF REFERENCE

The terms of reference for the archaeological study were:

- within erf 27264; 1. to determine whether there are likely to be any archaeological sites of significance
- to identify and map any sites of archaeological significance within the above area;
- potentially affected by the proposed development; to assess the sensitivity and conservation significance of archaeological sites
- 4. to assess the significance of any impacts resulting from the proposed development.
- sites that may exist within the site 5. to identify mitigatory measures to protect and maintain any valuable archaeological

3.0 THE STUDY SITE

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

and directly adjacent to the Olive Grove Development. The site is 3.18 ha in extent. The site is situated alongside Otto du Plessis Drive in Milnerton, opposite the Rietvlei

extensive across the site Dumping of building rubble frontal dunes, while a number of small informal footpaths are visible over the site The site is fairly heavily disturbed. A gravel track bisects the site at the base of the S also quite prevalent. Dune mole rat activity is

SITES 4.0 STUDY APPROACH AND DOCUMENTATION OF ARCHAEOLOGICAL

the property The approach used in the archaeological study entailed a detailed ground survey of

A limited desktop study was also undertaken.

4.1 Archaeological context of the study area

have been lost as a result of residential and recreational development (Kaplan 1993)... the way from Paarden Eiland to Milnerton (Rudner 1968). Sadly, most of these sites Large numbers of shell middens were previously recorded among the sand dunes all

mouth of the Milnerton Lagoon (Avery 1995; Kaplan 1995). Shell middens and scatters of LSA tools have also been located at Rietvlei (Kaplan 1996.8) Archaeological sites, including Later Stone Age¹ (LSA) shell middens, and even older Early Stone Age² tools and fossils have also been collected on the beach near the

more than 3000 years ago. shown that indigenous San hunter-gatherers peopled the landscape around Table View Excavations at Milnerton Beach (Deacon & Goosen 1996) and in Melkbosstrand have

the 'contact' period have been located and excavated in Melkbosstrand (Kaplan 1998 after the arrival of the Dutch settlers at the Cape in 1652 (Smith 1983). Sites dating to between the Dutch and the Khoi) peopling the Table Bay coastline before and shortly historical accounts of Khoi groups and 'Strandlopers' (Khoi entrepreneurs in the trade shores and living among the dunes and made contact with them. There are numerous The early Dutch settlers at the Cape encountered Khoisan communities on these

(Abrahams 1983; and Avery pers. comm.). LSA burials have also been excavated and exposed by wave action at Milnerton

the course of the dredging of the Rietvlei, and fossil bones have been collected in more recent years (Wolhuter pers. comm.). According to Avery (1998:9) elephant tusks and other bones were recovered during The palaeontological significance of the area has also been noted (Avery 1995, 1998).

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

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

5.0 RESULTS OF THE ARCHAEOLOGICAL STUDY

on the site One upper grindstone and one broken white mussel (donax serra) scraper were located

north eastern portion of the site, outside of the development area Some extremely ephemeral fragments of shellfish remains were also located in the

Significance of finds: low

Suggested mitigation: none required

6.0 IMPACT STATEMENT

sites or remains is considered to be low The impact of the proposed Sunset Beach Phase 7 development on archaeological

the project is also considered to be low The probability of locating significant archaeological sites during implementation of

Burial remains may however, be uncovered or disturbed during earthworks

7.0 LEGISLATION

and replaces the National Monuments Act (No. 28 of 1969). Archaeological sites and human burial remains are protected under the National Heritage Resources Act (No. 25 of 1999). The Act came into effect on 01 April 2000,

the South African Heritage Resources Agency (SAHRA). position, or collect, any archaeological material or object, without a permit issued by It is an offence to destroy, damage, excavate, alter, or remove from its original

8.0 RECOMMENDATIONS

heritage management recommendations are made With regard to the proposed Sunset Beach Phase ~] development, the following

- No archaeological mitigation is required.
- 2 sensitively at all times. Human remains should not be removed until inspected by or the South African Heritage Resources Agency. Burial remains should be treated earthworks, these should immediately be reported to a professional archaeologist, Should any professional archaeologist human remains be disturbed, exposed or uncovered during
- 3. No further detailed studies are required.

Resource Agency Plans Committee The above recommendations are subject to the approval of the South African Heritage

9.0 COST ESTIMATE FOR ARCHAEOLOGICAL RECOMMENDATIONS

while permanent storage of human remains at the South African Museum is also remains. Some laboratory work and curation of the remains will also be required, limited digging/excavation, sieving of associated deposits and recovery of the skeletal disturbed or damaged in the process. In such cases, archaeological mitigation involves usually exposed or uncovered during the course of earthworks, and as such are usually Cost estimates for the recovery of human burial remain/s are difficult to calculate. In context of a development such as Sunset Beach Phase 7, human remains are

envisaged. erf 27264 should therefore not exceed 3-4 days and a cost estimate of R 8000.00 is Time taken for the recovery, curation and storage of one or two human remains from

10.0 REFERENCES

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Rudner, J. 1968. Strandloper pottery from South and South West Africa. Annals of the South Africa Museum 49:441-663.

Smith, A.B. 1983. Prehistoric pastoralism in the Southwestern Cape, South Africa. World Archaeology 15:79-87.

an Environmental Management Plan should be compiled and implemented for both construction and operational phases should development proceed.

Developmental options

In summary, total loss of the site would have the greatest significance for the local plantlife, although larger, presumably more viable, examples of this habitat are found elsewhere. A key mitigatory measure would be to translocate rare and important species to "safe" habitats elsewhere.

Part development of the site would lead to a compromise where some of the existing natural area would be preserved, but might not be large enough to sustain the present plant and animal populations.

The long-term ecological viability of small remnants such as these is uncertain, given the inadequate management of the local coastal dune system. Any increase in natural open space will therefore place an even greater burden on already stretched management resources.

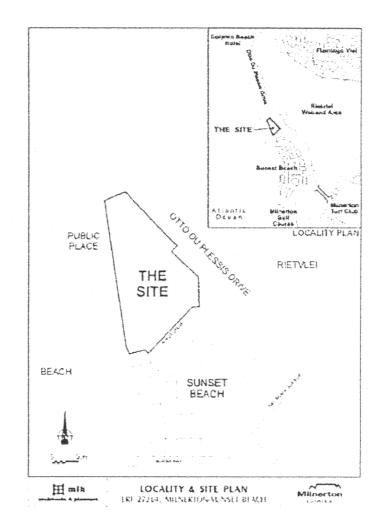
Comments

Any comments on the proposed subdivision should be communicated to Uschi Pond at Coastec, the consultancy facilitating the environmental assessment and public participation process (see details below). Comments should reach us by 7 April 2001.

Pamphlet distributed on 15 March 2001.

COASTEC

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sunset beach: intention to subdivide to single residential

Entomology

Context

The coastal Dune Thicket stretching from Milnerton northwards contains an abundance of insect life, including butterflies. Specialised breeding sites and conditions are selected by some blue and copper butterflies (Lycaenidae) and which meet with their specific life-cycle requirements. Historically, one such breeding site was situated where the main development of Sunset Beach has already been completed. Recent surveys, however, indicate that certain species no longer occur in the area or are very scarce in this fragmented natural environment. Some species use this vegetation belt as a flight corridor to nectar plants.

A survey of the insects on the site revealed:

- the comparatively small study site supports fewer butterflies today even though necessary life support systems are present
- the 25 species of butterflies encountered on the site (14 of which breed in the area) are relatively common and readily seen in many other locations; none are on the Red Data list
- the area is infested by the Argentine ant, posing a threat to the indigenous ant species, with a probable decline in butterfly breeding activity.

Impact statement and recommendations:

- a key factor to conserving local blue and copper butterflies is related to the conservation of cocktail ant nests in the area, and these in turn are threatened by the invasion of alien plants and the Argentine ant
- insect conservation is better achieved through habitat conservation of large key areas.

Botany

Context

The site is located towards the southern end of both the West Coast Dune Thicket system, and the Cape West Coast Biosphere Reserve (Diep River). Dune systems along this coastline are threatened by development and high impact use. They are also home to a number of local endemic (restricted distribution) and Red Data species.

A survey of the study site revealed:

- □ the vegetation comprises a unique form of Dune Thicket, related to the distinct soil type of the area. Similar vegetation is only known from a few other localities, such as the Blaauwberg Conservation Area
- □ 58 indigenous, perennial plant species occur at the site
- one Red Data species, Gladiolus griseus (a bulb), one protected species Sideroxylon inerme (milkwood), and two uncommon species, Haemanthus pubescens subsp. pubescens (a bulb) and Hermannia pinnata (a prostrate shrub) were encountered
- □ the largest known populations of *Brunsvigia orientalis* and *Haemanthus pubescens* in the vicinity of Cape Town occur on this site
- □ the site is impacted by dumping, whilst woody alien infestation and trampling is low.

Impact statement and recommendations:

- development of the site would result in the loss of an important botanical area
- further development might lead to greater impacts on the primary coastal dunes, if access is not regulated
- development would also lead to the loss of one of the few remaining populations of the threatened Gladiolus griseus
- a spring survey should be undertaken prior to any development decision, to establish the nature of the bulbs and annuals on the site

INTENTION TO SUBDIVIDE AND DEVELOP ERF 27264, MILNERTON – SUNSET BEACH EXTENSION

Background

The Milnerton Estates Ltd. intends to develop the final phase of their Sunset Beach residential estate. The parcel of land is located immediately north of the existing Sunset Beach residential area, west of Otto Du Plessis Drive (see diagram). The area comprises 3.2 ha and is separated from the coastline by a primary coastal dune system, a major part of which has already been ceded, by Milnerton Estates, to Blaauwberg Administration, as Public Open Space. The erf is already zoned single residential and an application for the subdivision to smaller erven is to be made. Recommendations arising from a stomwater management system and traffic impact assessment have been undertaken and approved as part of the original rezoning application for Sunset Beach.

The Rietvlei wetland, a Protected Natural Environment, abuts Otto Du Plessis Drive to the east of the proposed development site. The coastal dune system north of Sunset Beach forms part of the PNE.

Because the site has already been rezoned to residential, it is not subject to the Environmental Impact Assessment regulations. However, the developer is committed to an environmentally friendly approach which will ensure that development responds to the constraints and opportunities of the environment.

Environmental significance

Several specialist studies have been undertaken to establish the nature and sensitivity of the site, and which are aimed at guiding any future development at Sunset Beach.

Archaeology

Context

Khoi groups and 'Strandlopers' peopled the Table Bay coastline before and after the arrival of the Dutch settlers at the Cape in 1652. Shell middens, fossils and stone-age tools have been found in this area, whilst burials have been exposed by wave action at Milnerton.

A ground survey of the property revealed:

- several archaeological fragments were found on site
- the site is fairly heavily disturbed by a gravel track at the base of the frontal dunes, a number of informal footpaths and localised dumping.

Impact statement and recommendations:

- the impact of the proposed development on archaeological sites or remains is considered to be low to negligible
- □ the probability of locating significant archaeological sites during implementation of the project is also considered to be low
- burial remains may, however, be uncovered or disturbed during earthworks and such should immediately be reported to a professional archaeologist or the South African Heritage Resources Agency
- no mitigation is required
- no further detailed studies are required.

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THE RESOURCE AGONCY

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OUR REF

12 April 2001
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INTENTION TO SUBDIVIDE AND DEVELOP ERF 27264.
MILINERTON - SUBSET BEACH EXTENSION

in Mpumalanga and then at home with tick bite fever I very much appreciate your effort to contact us. As I explained I have unfortunately been away

specialist, in an effort to ensure that we do not lose more information than can be avoided development with the archaeologist(s) concerned, members of our committee and an oursaide of these peoples for certain periods in our area. become appairont that unless we take immediate action we shall have no record at all of the gatherer people at certain times and the arrival of the herder Khoekhoen along this coast The SAHRA Archicology Permit Committee has been increasingly concerned about the loss of shell midden sites along the West Coast. These represent a record of the life of the San har to development and have formed the practice of visiting all sites that are threatened We have therefore formed a group to m-

decide whether I can comfortably accept these recommendations without seeing the Impact Assessment in this case so have not been able to arrange this for this site. I assume from Unfortunately I have not as far as I am able to ascertain, received a copy of the Archaeological the regulations that you give that there has been such a report I am not really in a position to

recommendations you have been given)? able to see whether we can waive the usual site visit and debate (as seems to be the case from the Is it possible to let me have a fixed copy of the Archaeological Assessment argently so that I am

developer to have the archaeologist in question monitor any earth movement at "sensitive" archaeological material, which may be buried. The consequence of this is that we ask the As the recommendations indicate, a surface survey does not always indicate the presence of

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locations. Scemingly this is not a "sensitive" location, but unless I have read the report I find it difficult to tell (even then sometimes a site visit is the only way). The recommendations seem to indicate that it is not in this case but only last week we had an archaeologist monitoring a situation in Otto Du Plessis Drive AFTER there had been mitigation (excavation) of a site and two important features were located, so I would be glad of the opportunity to evaluate the Assessments as we usually do

As you are aware no person may without a permit from SAHRA destroy an archaeological site so it is better to be as proactive as we can. In an attempt to expedite this process could we discuss this as soon as possible

Very many thanks

Mary Leslie: Archaeologist
for CHIEF EXECUTIVE OFFICER
Copy: SAHRA Provincial Office: Western Cape

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