### PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENT PROPOSED HOUSING DEVELOPMENT **ERF 578**

CAPE WEST COAST LAAIPLEK

Prepared for

#### ENVIRODINAMIK

Client: Tarsius Agtien (Edms) Bpk

Ву

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#### Executive summary

A Phase 1 Archaeological Impact Assessment of a proposed housing development on Erf 578 Laaiplek on the Cape West Coast has identified no significant impacts to precolonial archaeological material that will need to be mitigated prior to proposed development activities.

Shelly beach deposits occur over a large portion of the subject property, which are probably features of late Pleistocene, Last Interglacial shoreline deposits. Such deposits palaeontological importance also been identified further north at Dwarskersbos and are of considerable

With regard to the proposed housing development of Erf 578 Laaiplek, the following recommendations are made

- Bulk earthworks and excavations must be monitored by a professional archaeologist. Alternatively, this task could be undertaken in consultation with an Environmental Control Officer (ECO).
- . Vegetation clearing operations must be monitored by a professional archaeologist. This task could also be undertaken in consultation with the ECO.
- . Should any human burials be uncovered during excavations, these should immediately be reported to the South African Heritage Resources Agency (Att: Ms Mary Leslie: 462 4502), or Heritage Western Cape (Att: Dr A. Jerardino: 483 9692). Human burials should be treated sensitively at all times.
- . Maritime Archaeologist at the South African Heritage Resources Agency (Att. Mr Should any shipwreck material (such as wooden beams, etc) be uncovered during excavations and bulk earthworks, these should immediately be reported to the Jonathan Sharfman: 462 4502)
- ۰ palaeontologist. earthworks and excavations must Öe inspected by ω professional

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#### 1. INTRODUCTION

### 1.1 Background and brief

Envirodinamik<sup>1</sup>, on behalf of Tarsius Agtien (Edms) Bpk requested that the Agency for Assessment (AIA) for a proposed housing development on Erf 578 Laaiplek on the Cape Cultural Resource Management (ACRM) conduct a Phase Archaeological Impact

The proposed rezoning and subdivision of the subject property entails the construction of approximately 216 single residential units with internal roads and services. Provision is also made for Public Open Space.

The property is currently zoned Undetermined.

Heritage Resources Act (No. 25 of 1999). The extent of the proposed development (about 19 ha) falls within the requirements for an archaeological impact assessment as required by Section 38 of the South African

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 measures to mitigate against the impacts. The aim of the study is to locate and map archaeological heritage sites and remains that

palaeontological assessment of the proposed development Consulting palaeontologist Dr John Pether has been appointed to undertake a specialist

### 2. TERMS OF REFERENCE

The terms of reference for the study were:

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

<sup>&</sup>lt;sup>1</sup> Envirodinamik is represented by Ms Anél Joubert. PO Box 2470, Durbanville, 7551. Fax 975 8630

#### 3. THE STUDY SITE

A locality map of the study area is illustrated in Figure 1.

An aerial photograph of Erf 578 Laaiplek is illustrated in Figure 2

A site development plan is illustrated in Figure 3.

archaeological visibility (Figures 4-9). There are no significant landscape features on the site. The surrounding land use comprises beach and Public Open Space and residential development to the south and east on the site. A large portion of the site is infested with alien vegetation, resulting in low property, occurs immediately behind the low frontal dunes. There is also some dumping of deflated land running along almost the entire length of the western portion of the boundary with an existing residential development is, particularly severely disturbed. Numerous footpaths from this area cut across the site leading down to the beach. A spit degraded as a result of heavy pedestrian traffic. The eastern portion of the site, and its the Pelican Beach Holiday Resort. The flat, vacant site is fairly severely disturbed and Erf 578 Laaiplek (at S° 32 45 694 E° 18 09 454 on map datum vvs5 of the coast, immediately to the north of Laaiplek, on the Cape West Coast. area is characterised by a long sandy beach. The north western border of the site abuts 578 Laaiplek (at S° 32 45 694 E° 18 09 454 on map datum WGS 84) is located on The shoreline

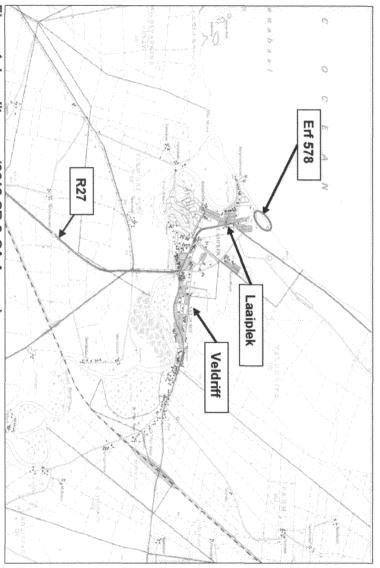


Figure 1. Locality map (3218 CB & CA Aurora)

Figure 2. Aerial photograph of the study site.



Figure 3. Erf 578 Laaiplek. Proposed layout plan.



Figure 4. View of the site facing south, taken



Figure 5. View of the site facing south east.



Figure 6. View of the site facing west.



Figure 7. View of the site facing north east.

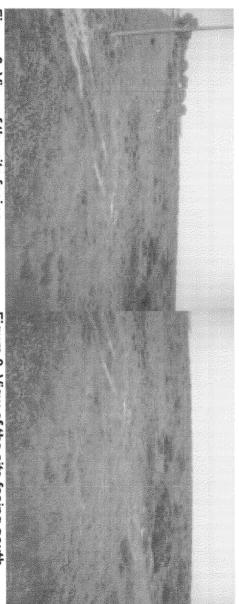


Figure 8. View of the site facing south.

Figure 9. View of the site facing south west

### 4. APPROACH TO THE STUDY

#### 4.1 Method of survey

The approach followed in the archaeological study entailed a foot survey of Erf 578 Laaiplek

The archaeological assessment took place on the 21st of June, 2006

A desktop study was also undertaken.

### 4.2 Constraints and limitations

archaeological visibility A large portion of the property is infested with alien vegetation, resulting in low

### 4.3 Identification of risk sources

earthworks and excavations Human burials and shipwreck material may be exposed or uncovered during bulk

### 4.4 Results of the desk top study

shoreline, appear to result from brief, episodic occupations have also been recorded south of Draaihoek (Kaplan 2005). Jerardino (2003) has suggested that most of these sites, in the low, deflated sandy areas adjacent the with bone, ostrich eggshell stone artefacts and pottery. Similar-type Later Stone Age Most of the archaeological sites consist of thin scatters of dispersed shell, the sandy dune areas adjacent the coastline over the last 3000 years (Jerardino 2003) Archaeological research on the Cape West Coast, between Elands Bay and Draaihoek (north of Dwarskersbos), has established that there was human occupation present in (LSA) sites, containing shell, ostrich eggshell, stone artefacts and decorated pottery associated

Along the alignment of the now-tarred West Coast Road, between the Berg River (at Laaiplek) and Rocher Pan, there are a number of deflated hollows in the veld inland of the shoreline area, which contain small numbers of stone artefacts, a few potsherds and occasional pieces of ostrich eggshell (Parkington & Manhire 1988).

white sand mussel (Donax serra) with bones and occasional pieces of ostrich eggshell and stone artefacts the dunes at Duinefontein and Die Vlei. These sites typically consist of large scatters of Duine (Kaplan 1998, 1997), while Rudner (1968) described LSA shell middens among Archaeological sites have also been recorded in the dune cordon at Rocher Pan and Die

group of fishtraps is one of the best known examples on the west coast. described at Swartpunt, south of the mouth of the Berg River (Hart & Halkett 1992). This Further south, at Dwarskersbos, low density scatters of LSA tools and pottery have been located east of the main road running through the town (Kaplan 2006), while even further south, several LSA shell middens have also been recorded between Laaiplek and Dwarskersbos (Hart & Miller 1994). Ancient tidal fishtraps (visvywers) have been

comm.). is in the evaluation of geohazards and evidence of earth tremors (John Pether pers with time, record historical palaeontological importance, as they provide a record of changes in faunal communities extensive sets of well-preserved shelly beach deposits at Dwarskersbos are features of late Pleistocene, Last Interglacial shoreline deposits that occur widely in the area with time, record historical sea-level changes, as well as preserve fossil remains. Another significance of these types of coastal deposits, of increasing importance to date addition to the pre-colonial archaeological heritage 2004). These beach deposits are of remains described above considerable

#### 4.4.1 Shipwrecks

has been recovered from the St. Helena Bay shoreline went down near the mouth of Berg River, at Laaiplek. To date, no shipwreck material It is important to note that a number of shipwrecks are also known to occur in the St Helena Bay, including the Dutch East India Company (VOC) Gouden Buys (1693) which

Below is a list of the known shipwrecks in the St. Helena Bay area?

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	Y T	AREA	Sin
		Berg River mouth	1885
	Friends Goodwill	St Helena Bay	1840
		St Helena Bay	1910
	Huis te Vlotter	St Helena Bay	1731
		St Helena Bay	851
		St Helena Bay	1693
		Dwarskersbos	1880
		Berg River mouth	808
	Paparoa	St Helena Bay	1926

<sup>&</sup>lt;sup>2</sup> Shipwreck information made available by Mr John Gribble, until recently, the maritime archaeologist at the South African Heritage Resource Agency (SAHRA)

### 5. LEGISLATIVE REQUIREMENTS

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

(No. 25 of 1999)" 5 000m², or the rezoning or change of land use of a site exceeding 10 000 m², requires an archaeological impact assessment in terms of the National Heritage Resources Act any development or other activity which will change the character of a site exceeding

### 5.1.1 Structures (Section 34 (1))

No person may alter or demolish any structure or part of a structure which is older than 60 years without a permit issued by the South African Heritage Resources Agency (SAHRA), or Heritage Western Cape.

### 5.1.2 Archaeology (Section 35 (4))

archaeological material or object No person may, without a permit issued by the SAHRA or Heritage Western Cape, destroy, damage, excavate, alter or remove from its original position, or collect, any

# 5.1.3 Burial grounds and graves (Section 36 (3))

administered by a local authority. grave or burial ground older than 60 years, which is situated outside a formal cemetery No person may, without a permit issued by SAHRA or Heritage Western Cape, destroy, damage, alter, exhume or remove from its original position or otherwise disturb any

## 6. IMPACT ASSESSMENT AND DESCRIPTION

No archaeological heritage remains were located during the baseline study of Erf 578 Laaiplek

occur. Some Black Mussel (Choromytilus meridionalis) and small amounts of ribbed mussel (Aulacomya ater) are also present. The shell occurs in open spaces surrounded by thick bush. A large amount of the associated smaller shell fragments are edge However, much of the subject property, particularly the back portion, is covered with shelly beach deposits. These typically comprise extensive and sometimes substantial surface scatters of Venerupis corrugate (Venus clams), White Sand Mussel (Donax rounded and water worn. serra) and other small bivalves. Large numbers of Trough Shell (Lutraria lutraria) also

These beach deposits are most likely features of late Pleistocene, Last Interglacial shoreline deposits (Dr John Pether Consulting Palaeontologist pers. comm.). Such deposits have been identified further north at Dwarskersbos (Kaplan 2003, 2005b; Pether 2004), but so far have not been described from the beaches at Laaiplek.

dunes, and these more likely represent storm beach deposits, or tidal wash-ups Much less shell is apparent in the wind deflated area behind the low (eroded) frontal

#### 7. IMPACT STATEMENT

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The impact of the proposed housing development of archaeological heritage remains is likely to be very low. Щ 578 Laaiplek on important

exposed during bulk earthworks and excavations Unmarked human burials and shipwreck material may, however, be uncovered or

Excavations for services may also expose shelly beach deposits of Holocene and Late Pleistocene significance.

### 8. RECOMMENDATIONS

recommendations are made. ¥íth regard ō the proposed development <u>o</u> 四 578 Laaiplek, ŧ e following

- Bulk earthworks and excavations must be monitored by a professional archaeologist. Alternatively, this task could be undertaken in consultation with an Environmental Control Officer (ECO).
- . Vegetation clearing operations must be monitored by a professional archaeologist. This task could also be undertaken in consultation with the ECO.
- . Should any unmarked human burials be uncovered during excavations, these should immediately be reported to the South African Heritage Resources Agency (Att: Ms Mary Leslie: 462 4502), or Heritage Western Cape (Att: Dr A. Jerardino: 483 9692).
- . Should any shipwreck material (such as wooden beams, etc) be uncovered during excavations and bulk earthworks, these should immediately be reported to the Maritime Archaeologist at the South African Heritage Resources Agency (Att: Mr Jonathan Sharfman: 462 4502)
- . palaeontologist. Bulk earthworks and deep excavations must be inspected by ω professional

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