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#### RCHAEOLOGICAL IMPACT ASSESSMENT PHASE 1

A cultural heritage evaluation for the proposed sewerage line in Duiwelskloof

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### 1. EXECUTIVE SUMMARY

Site name and location: Sewerage works in Duiwelskloof

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Date of report: 16 April 2003

required for the proposed development of the pipeline in Duiwelskloof. of a low scatter of undecorated and decorated ceramics. Findings: Two Late Iron Age sites of low significance were found, consisting No mitigation is

#### I. INTRODUCTION

is required to satisfy the requirements of the List of Activities and Regulation for EIA's above legislation, a Phase 1 Heritage Impact Assessment (scoping & evaluation) of the resources impact assessments in terms of Section 38. To satisfy the requirements of the archaeological, palaeontological and historical sites and graves, and requires heritage The Project Proposal constitutes an activity that is listed in terms of the Environmental heritage resources pro-active measures to limit the adverse effects that the development could have on such significance that occur on the demarcated area. legislation, proposed sewerage pipeline in Duiwelskloof was undertaken. Government Gazette of 5 September 1997 - provided for in terms of sections 21, 22 and Conservation Act (Act No. 73 of 1989), for which an Environmental Impact Assessment In addition, the National Heritage Resources Act (Act No. 25 of 1999), protects all the developer requires information on the heritage This will enable the developer to take In order to comply with resources,

## 2. THE AIM OF THIS REPORT

Impact Assessment of the proposed Acomhoek service station. The author was contracted by Wilhelm Joubert of Bio 8 to undertake a Phase 1 Heritage

The aims of this assessment are:

- significance will have an impact on the nature of the proposed development. and historical sites and features, To determine whether the presence of heritage resources such as archaeological graves and places of religious and cultural
- To assess the impact of the proposed project on such heritage resources
- cultural resources management measures that may be required at affected sites / To provide the developer with appropriate recommendations with regard to the

This report aims to provide an overview of the heritage resources that were detected within the proposed development area. The impact and significance of the heritage resources were assessed in terms of criteria defined in the methodology section.

#### 2. LOCATION

Refer to map, South Africa (1:50 000 2330CA.)

into an existing oxidation dam. pipeline runs parallel with the main street in the road servitude. The pipeline will enter accessible either from the R36 from Tzaneen or from Mooketsi. The longest stretch of the The demarcated area is situated in and around the town of Duiwelskloof. The town is

### 3. METHODOLOGY

## 3.1 Information gathered in a survey on foot

evaluate findings proposed development. Assessment on April 7, 2003. The area for the proposed pipeline was thoroughly The archaeologist visited the proposed site as part of a Phase 1 Archaeological Impact on foot and by vehicle to determine it's cultural heritage status prior to the Standard archaeological practices for observation were used to

surface and therefore special attention was given to disturbances, both man-made such as photographed with a Canon digital camera. (Garmin E Trex). Archaeological material and the general conditions on the terrain were and erosion. Locations of archaeological material were recorded by means of a GPS clearings and paths, as well as those made by natural agents such as burrowing animals Most archaeological material occurs in single or multiple stratified layers beneath the soil

## 3.2 Assumptions and Limitations

undetected heritage remains, below the surface that might occur only as development was already cleared by the time of the investigation (fig 1). The discovery of previously investigation of the area very hard to ensure, fortunately the area for the proposed line cultural heritage survey, all heritage resources may not have been detected in the given It is important to keep in mind that although the area was subjected to a very thorough commences, must be reported and may require further mitigation measures. The area is characterized by dense undergrowth, which makes

## 3.3 Categories of significance

The significance of archaeological sites is ranked into the following categories

No Significance	Do not require mitigation
Low Significance	May require mitigation
Medium Significance	Require mitigation
High Significance	Must not be disturbed at all

The significance of an archaeological site is based on the amount of deposit, the integrity of the context, the kind of deposit and the potential to help answer present research questions. Historical structures are defined by Section 34 of the National Heritage Resources Act, 1999, while other historical and cultural significant sites, places and features, are generally determined by community preferences.

An important aspect to consider when determining the heritage significance and protection status of a resource is mostly whether the sustainable social and economic benefits of a proposed development outweigh the conservation issues at stake. There are however many aspects that must be taken into consideration when determining significance, such as rarity, scientific importance, national significance, cultural and religious significance and community preferences. When the protection of a heritage site is deemed to be not necessary or practical, its research potential must be assessed and mitigated in order to gain data / information that would be lost otherwise. Such sites must be adequately recorded and sampled before being destroyed. These are generally sites graded as of low or medium significance.

#### 3.4 Explanation of terminology

Cultural Heritage	Includes an evaluation of he	Includes an evaluation of heritage resources as outlined in the			
Assessment	National Heritage Resources Act				
Iron Age	The Iron Age includes both Pre historic and Historic period. The entire Iron Age represents the spread of Bantu speaking people. It too can be divided into three categories:				
	Early Iron Age	Most of the first millennium AD			
	Middle Iron Age	10 <sup>th</sup> to 13 <sup>th</sup> centuries AD			
	Late Iron Age	14 <sup>th</sup> century to colonial period.			
Phase 1 assessments	Represents surveys using different sources of information to establish the presence of and to evaluate all types of heritage resources in a given area.				
Phase 2 assessments	In depth culture resources management studies which could include major archaeological excavations, detailed site surveys and mapping / plans of sites, including historical / architectural structures and features or, alternatively, the sampling of sites by collecting material, small test pit excavations or auger sampling.				
Sensitive remains	Often refers to graves and burial sites although not necessarily a heritage place as well as ideologically significant places such as ritual / religious / sacred places. Graves are only considered heritage resources if they date from the historic past or before and have tombstones older than sixty years. Sensitive may also refer to an entire landscape / area known for its significant heritage remains				

## 3. RELEVANT LEGISLATION

resources and graves. One set of legislation is relevant for this study with regard to protection of heritage

# 3.1 The National Heritage Resources Act (25 of 1999) (NHRA)

archaeological sites and must be dealt with accordingly including gravestones. grade of the Heritage resources. The Act defines cultural significance, archaeological undertaken by the State, Provincial authorities and Local authorities, depending on the of a three-tier level of responsibilities Section 38. It also provides for the grading of heritage resources and the implementation resources impact assessments for various categories of development as determined by Resources Authorities (PHRA). Agency (SAHRA) and makes provision for the establishment of Provincial Heritage out in Section 36 of the NHRA. and palaeontological The National Heritage Act was established by the South African Heritage Resources Archaeological Section 34 also protects structures and cultural landscapes older than 60 years, graves and burial sites (Section 36) that falls under its jurisdiction sites and material are generally those resources older than a hundred sites and material (Section 35), historical sites and structures Procedures for managing graves and burial grounds are clearly set The Act makes provision for the undertaking of heritage Graves older than a 100 years are legislated as and functions for heritage resources

before any heritage resource may be damaged or destroyed Section 38 of the NHRA makes provision for application by developers for permits

## 5. ARCHAEOLOGICAL FINDS

SITE 1 General Co-ordinates: \$23°41'22.0" E 30°08'36.7"

exposed by the initial clearing for the proposed pipeline (Fig. 1) This is the location of a low concentration of scattered undecorated ceramics (Fig. 2),

Significance: Low, this site will not require mitigation.

SITE 2 General Co-ordinates: \$23.41'09.9" E30.08'52.0"

initial clearing of the pipeline. This location is close to a small stream on a steep slope. This is the location of a scatter of decorated and undecorated ceramics exposed by the

Significance: Low, this site will not require mitigation.

## 6. EVALUATION AND INTERPRETATION

hand yielded 2 diagnostic potsherds (Fig. 3 & 4) but even so the surface finds were found diagnostic potsherds and cannot be associated with a cultural group. Site 2 on the other to be of low density Both sites 1 & 2 constitutes a low density of scattered ceramics, site 1 did not yield any

sites. Both sites 1 & 2 do not seem to have any cultural significance indicators like surface features, ash middens etc. were found to indicate to archaeological the 1600 and after. Neither site 1 or 2 seems to be archaeological habitational sites but rather the The two diagnostic potsherds conform to the Later Iron Age Letaba pottery and dates to location of occasional broken pots used for collecting water. No other

## 7. RECOMMENDATIONS

heritage resources on the proposed route of the pipeline. It is therefore suggested that development can commence, as there will be no implications regarding cultural heritage This Phase 1 Archaeological impact assessment found no significant evidence of cultural resource mitigation.

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### Appendix A

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Photos: Fig 1. Initial clearing for proposed pipeline.

Fig 2. Undecorated ceramics at site 1.

Fig 3. Typical Late Iron Age Letaba Pottery.

Fig 4. Typical Late Iron Age Letaba Pottery.

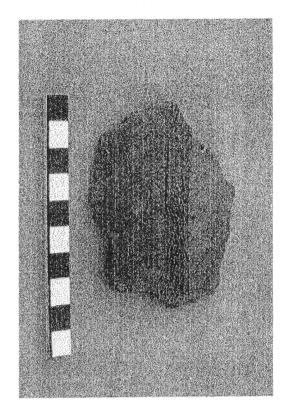


Fig 3. Typical Late Iron Age Letaba pottery

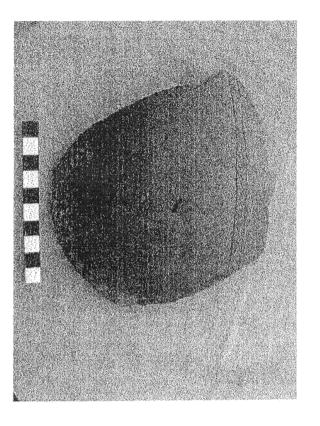


Fig 4. Typical Late Iron Age Letaba pottery

#### Appendix B

Locality map.

