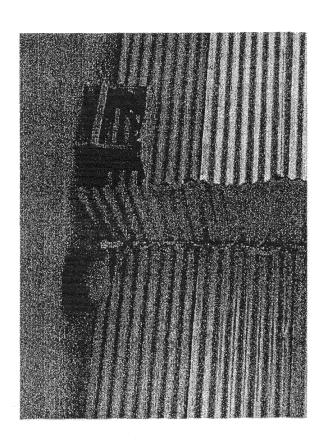
# ARCHAEOLOGICAL IMPACT ASSESSMENT PHASE 1

Bochum, Northern Province Part of Bochum N. 178 LS Low Cost Housing Project



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 $\bigcirc$ Recommendations Evaluation Description Wethod

Bibliography

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ADDENDUM 1

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Archaeological Impact Assessment The Law

ADDENDUM 2 that are relevant to Archaeological Sites. Extracts from the National Monuments Act (No 28 of 1969, as amended in 1986)

## ADDENDUM 3

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Report on Workshop on *Standards for the Assessment of Significance and Research Priorities for Contract Archaeology,* SA3 (Southern African Association of Archaeologists) Biennial Conference, University of Venda, 10 July 1998

The aim was to undertake a Phase 1 Archaeological Impact Assessment on approximately 40ha at Bochum N. 178 LS (Bochum - A Extension 4) where a low cost housing project has been proposed, to assess the impact of the proposed scheme in terms of archaeological/historical sites and features and to make recommendations. The task was performed on February 23, 1999.

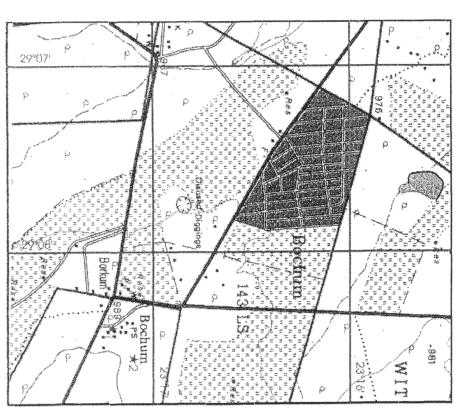
#### WETHOD 1

features were photographed with a Kodak Digital DC120 camera. Notes were audio taped. one assistant. Locations were recorded by means of a GPS (Garmin, 45XL), and archaeological/historical A survey of the entire area demarcated for development was done on foot by an archaeologist and A finds list was also kept. were documented, labelled and packaged in the field. Before being photographed, it was cleaned All finds

## DESCRIPTION

which dot the area are relatively young, and all other trees have the character of shrubbery as it is being heavily utilised for fire wood. Premises are clearly demarcated either by formal fencing methods or by the result that no cultural remains were noticed, even after thorough reconnaissance. thom tree branches and aloe leaves laid out on the periphery. Most premises are kept well swept, with Both the residential and the informal settlements are located on an even, flat area. The marula trees

of previous habitation, with nil results. been reconnoitred and occupants were shown potsherds and interviewed with regard to any knowledge Among some of the various informal stands are grassy, relatively undisturbed areas. All of these have



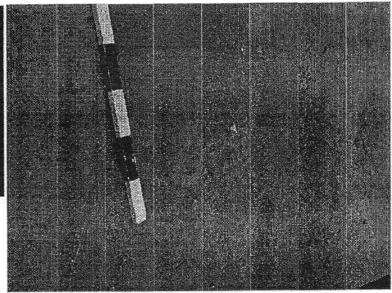
were still embedded in the hard compacted soil. surface, especially in the slightly eroded areas such as foot paths and the shoulders of the road. been erected, especially in the most southern part of the area. A part of the identified area had been utilised prior to the informal settlement. Formal residences had Cultural material were identified on the Some

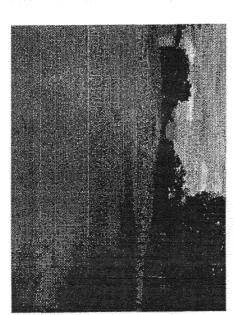
floor/foundations, middens or cattle enclosures were noticed. Some isolated potsherd finds were also recorded. No other features, e.g graves, stone walls, house

Two sites were identified.

#### Site 1

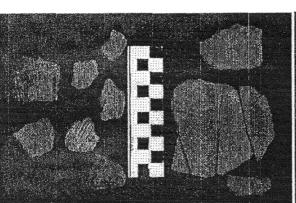
\$23°17'12.7" E29°08'24.7"

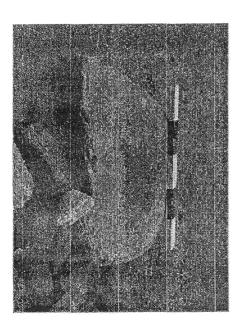




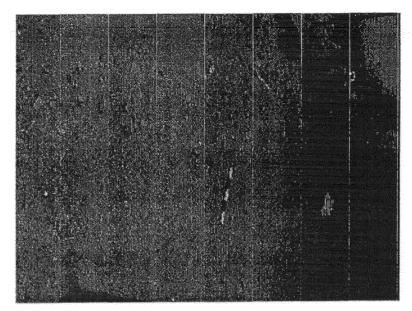
This site was located in the formal built-up area, which forms the most southern part of the area that was investigated. Several potsherds were recovered in the existing road.

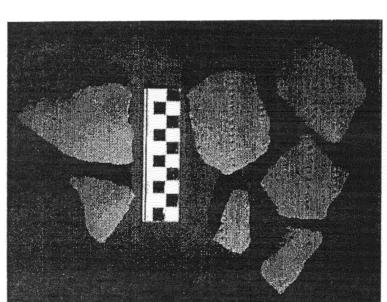
In front of Houses numbered 1982, 1983 and 1984 a cluster of potsherds were recovered mostly on the side of the road where some erosion had taken place. Some were decorated in a modern style, and would be of recent origin. Some sherds were identified as belonging to the Moloko and possibly the Eiland tradition. In the yard of House No 1983 a grinding stone was photographed.





recovered from the midden, although prettily decorated, is only approximately 15 - 20 years old, and midden (ash heap). In the photograph below, the light grey ash is in the foreground, and the darker, charcoal coloured and slightly raised part of the midden can be seen directly behind it. The potsherds In the back yard of House No 1984 more decorated potsherds were recovered in association with a probably of Kone origin. The potsherds

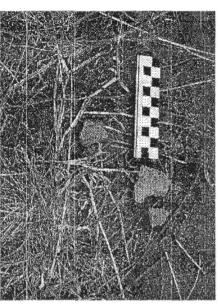




seemed similar to that of a midden. A test pit was dug but no cultural remains were recovered road, as it was found in loose soil. None were collected and no photographs were taken. A trench was was discovered. It was neither deep nor embedded in the soil but seemed to have washed down the in the process of being dug between Houses 1991 and 1990. The soil is grey in colour and therefore At the entrance gate of House No 1991, a cluster of undecorated potsherds, extending into the road,

Site 2

\$23°17'05.2" E29°08'34.4"



This is an isolated potsherd find, but as this was the only other artefactual material in the entire area other than Site 1, it was decided to take a GPS reading. These undecorated sherds were recovered from the grass veld next to a road. It was not collected but photographed. No other archaeological features or artefactual material were identified.

### **EVALUATION**

stone and the Elland and Moloko potsherds that were recovered in the road in front of House No's 1982 The most important archaeological material found in the whole area is Site 1, in particular the grinding 1983 and 1984

knowledge of metallurgy made metal tools and weapons moved into Botswana, the Northern Province, Mozambique and the eastern coastal regions of South The southern African Iron Age began around AD 200 when people with knowledge of iron smelting The archaeological name, Iron Age, derives from the fact that these new people with their

Early Iron Age (EIA) AD 200 - 1000 Middle Iron Age (MIA) AD 1000 - 1500 The Iron Age can be divided into three phases, namely

Late Iron Age (LIA) AD 1500 - colonial times

and copper production and farming in the largest parts of East and southern Africa. As it was the first signs of metal production in the entire area, it was called the Early Iron Age. A certain type of pottery, which belonged to a single stylistical tradition, was found in association with iron

Settlements with distinctive Early Iron Age pottery have been found at sites all over the Bushveld areas into which the early farmers first moved. Pottery is the most important artefact for identifying Iron Age groups. remained in an area over a period of time during which their style of pottery changed and therefore one group. that the movement of Iron Age farmers into southern Africa did not occur at only one time, or involve only Iron Age pottery from different regions and different periods are decorated in different ways. divide individual groups chronologically into successive phases By studying pottery, archaeologists are also able to demonstrate that some people

## Elland assemblage

Northern Province and Ficus in the central Northern Province in the Makapan valley. deposits occur in e.g Elland in the eastern Northern Province Lowveld, Tavhatshena and Begwa in the The Elland assemblage of ceramics have been dated between the ninth and twelfth centuries. Silver Leaves in the eastern Northern Province near Tzaneen, Roolberg in the western

## Moloko assemblage

modern Pedi, South Sotho and Kgatla pottery can be derived from it. are commonly considered to have been made by the ancestors of the Sotho-Tswana people because northeastern Free State) where it is associated with stone-walled settlements. Moloko tradition ceramics Northwest Province Moloko ceramics dates to the fourteenth century in the Northern Province, the fifteenth century in the and the fifteenth century on the southern Highveld (southern Gauteng

## RECOMMENDATIONS

A Phase 2 Archaeological Impact Assessment is not recommended

cular paragraphs 12(2A) (e) and (f), and Addendum 3 (Iron Age/Agriculturist), the archaeologist should be notified immediately. In this regard please see Addendum 2, in parti-(which at this stage is unnoticeable on the surface) be encountered during building operations, and tely scientific information was lost because no archaeological impact assessment had been under-The most important site is located in an area that had already undergone development. Unfortuna-Caution should nevertheless be taken should any graves, middens or other cultural remains

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Hester Roodt

March 30, 1999

## ADDENDUM 1

### THE LAW

historical sites and material older than 50 years. It is an offence to destroy, damage, alter, remove from its original site, or excavate any such site or material without a permit from the National Monuments or two years imprisonment, or both. See Addendum 2 for extracts from this act. Council. A person convicted of an offence in terms of the Act, could be liable for a fine of up to R10000 The National Monuments Act (No. 28 of 1969) protects all palaeontological, archaeological and

include archaeological and palaeontological sites, graves and burial sites, buildings and sites of religious, social and cultural significance are listed as environments which must be included in an environmental impact assessment report. Management Procedure, Guideline Document 1 identifies certain man-made areas and features that In terms of the Environmental Conservation Act (No. 73 of 1989) the Integrated Environmental These

# ARCHAEOLOGICAL IMPACT ASSESSMENT

on development projects, and to avoid costly delays if a site is discovered during the course of undertake survey work important that developers realise that only qualified professional archaeologists should be employed to construction work, it is important to hire an archaeologist well in advance to survey the area. To minimise the impact of development on archaeological sites, and the impact of archaeological sites

The developer is responsible for the costs involved in hiring an archaeologist to investigate the site

### Phase 1

the sites have been recorded recommendations and assessment of significance made in the report, a decision can be taken on how the development may proceed. In most cases development will be able to go ahead as planned after The archaeologist hired to do the work will submit a phase 1 report. On the basis of the

### Phase 2

and research purposes evidence can be stored permanently in a museum where it can be consulted at a later date for record collection of archaeological material. The purpose behind mitigation is to sample the site so that the In some cases, miligation in a Phase 2 programme will be necessary and may involve excavation or

#### Phase 3

solutions are possible if the archaeologist is consulted early enough in the planning process can confer on the action to be taken. It may be possible to incorporate an Iron Age village into a green belt in a housing scheme, or to modify a high rise building plan by covering rare  $18^{th}$  century foundations and associated rubbish dumps beneath a parking lot to avoid destroying them completely. Such 3 programme. If this happens, the archaeologist, the National Monuments Council and the developer More rarely, the site may be so important that it will warrant modification of the development in a Phase

that they have been adequately recorded and sampled is satisfied that steps have been taken to ensure that the archaeological sites will not be damaged, or Permission for the development to proceed can be given only once the National Monuments Council

National Monuments Council must ensure that the historical and cultural heritage of all South Africans for future generations and of avoiding conflict between developers and cultural conservationists. If this chain of action is followed, we stand a chance of saving something of our archaeological heritage projects by selecting options that cause the least amount of inconvenience and delay Careful planning can minimise the impact of archaeological surveys on development 70

## ADDENDUM 2

# AS AMENDED IN 1986) THAT ARE RELEVANT TO ARCHAEOLOGICAL SITES EXTRACTS FROM THE NATIONAL MONUMENTS ACT (NO 28 OF 1969,

- 12(2A) original site or export from the Republic -No person shall destroy, damage, excavate, alter, remove from its
- any meteorite or fossil; or
- 0 any drawing or painting on stone or a petroglyph known or commonly believed to have been executed by Bushmen; or
- 0 any drawing or painting on stone or a petroglyph known or commonly believed to have been executed by any other people who inhabited or visited the Republic before the settlement of the Europeans at the Cape; or
- 0 any implement, ornament or structure known or commonly believed to have been made, used or erected by people referred to in paragraphs (b) and
- 0 the anthropological or archaeological contents of graves, caves, rock shelters, middens, shell mounds or other sites used by such people; or any other historical site\*, archaeological or palaeontological finds, material
- 3 or object,

section. except under the authority of and in accordance with a permit issued under this

marker, milestone, gravestone, landmark or tell older than 50 years."] An "historical site" is defined as "any identifiable building or part thereof,

## ADDENDUM 3

## Standards for the Assessment of Significance and Research Priorities for Contract Archaeology Report on Workshop on

SA3 (Southern African Association of Archaeologists) Biennial Conference University of Venda, 10 July 1998

## Janette Deacon National Monuments Council

need to be established as a matter of urgency in consultation with CRM practitioners, provincial and national heritage agencies and research archaeologists. The following factors are relevant. Opportunities for archaeological contract work will expand in southern Africa in the next few years. To make the best of the opportunities, medium-term (3-5 year) research and heritage conservation priorities

- 1997 its long-awaited List of Activities which may have a substantial detrimental effect on the environment and the regulations regarding activities identified under Section 21(1) of the Environment Conservation Act (No. 73 of 1989). These effectively make environmental impact In South Africa, the Department of Environmental Affairs and Tourism published on 5 September assessments compulsory for the listed activities
- N palaeontological sites are affected by development but are not protected by other legislation. other innovations, it makes impact assessments compulsory where historical, archaeological and before the Cabinet and Parliament in 1998. It could become law from 1 April 1999. Amongst The National Heritage Bill, designed to replace the National Monuments Act in South Africa, came
- လ requirements of the World Bank are implemented. In neighbouring African countries, the tempo of contract work is also rising as new legislation and

which would otherwise be lost. It seems widely accepted that CRM practitioners do mitigation to rescue the research potential of a site The following kinds of sites were identified as being worthy of mitigation:

## Stone Age / Hunter Gatherer

- any open air site with bone or other organic material;
- any cave or rock shelter with deposit;
- rock paintings and rock engravings (record context as well as images);
- quarry sites with possibilities for core re-fitting;
- long sequence sites;
- coastal and inland shell middens;
  any sites with Howlesons Poort
- any sites with Howlesons Poort, Stillbay or Robberg artefacts;
- human remains or builds
- fish traps;
- placement of Earlier Stone Age sites in the

- landscape are they associated with river valleys, water sources or quarries?
- evidence for modernity in Middle Stone Age sites;
- sites with evidence for interaction between Stone Age and Iron Age or colonial people;
- Later Stone Age sites with Bambata pottery;
  pastoral sites, especially in the Eastern Cape;
- caches of ostrich eggshells or other items;
- · hunting blinds:
- sources such as haematite or specularite.

- quence of the Early Iron Age in the northern and eastern regions of southern Africa; Sites that will help to clarify the ceramic se
- any Bambata settlement
- or long term occupation; Early Iron Age sites with evidence for structures
- hlerarchies; sites with evidence ₫ political Q social
- evidence production; <u>್</u>ಕ ∄e organization 으 metal
- health and nutrition; burials with evidence for social differentiation,
- evidence for trade within and outside of the Zimbabwe culture area;
- special-purpose up the culture-historical sequence; sites in areas that are under-researched to build sites such Q rainmaking
- living sites, salt making; circumcision, mining, furnaces, cattle posts vs
- well preserved early Moloko sites with middens for evidence of diet and subsistence or stone

Blackburn and Moor Park sites in KwaZulu-Natal;

- Malling;
- any Zimbabwe-style stone walling should be evidence for contemporary cultural interaction, such as population size and grain-bin variability; mapped in sufficient detail to estimate factors
- sites with architectural styles and information on for example between Khami and Moloko;
- past, materials used for housing, even in the recent
- direct or in the style of grindstones used; evidence for the introduction of maize, either
- sites with botanical remains of cultigens;
- characteristics of dolly-holes for gold mining; information 9 the distribution, SIZe ana
- spindle whoris; evidence for textiles or weaving in addition to
- information relating to them; evidence figurine caches and spatial relationships to Q games and contextual
- check stone outcrops near stonewalled sites for engravings

settlements;

## Historical/Colonia

- sites connected with whaling and sealing
- ships or ship/boat structures on land
- shipwreck survivor camps;
- identification); ceramics (RESUNACT is preparing guidelines for sites in the interior with nineteenth century
- single occupation sites in urban environments depressions;  $17^{th}$  century or early  $18^{th}$  century sites in Cape with deposits such as wells, cisterns and
- international slave trade routes; sites that are connected with national and
- LSA sites with metal items such as brass buttons;

- done before going into the field; sites that could inform on the effects of military documentary and archival searches should be
- forces on indigenous local populations;
- the symbolic significance of textiles, beads and other items imported by traders;
- sites with oral traditions of sacred significance therefore relevant to archaeology; oral histories increase significance and are
- historical graves need sensitive removal during specialists boration between archaeologists and funeral mitigation and this is often best done in colla-

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