ARCHAEOLOGICAL IMPACT ASSESSMENT PHASE I

Warmbad Town Establishment
Het Bad 465 KR
NORTHERN PROVINCE



Hester Roodt August 1999





PO Box 1600 PIETERSBURG 0 7 0 0

N 4 Method Synopsis AF Evaluation Recommendations Description

6 ADDENDUM

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Bibliography

The Law

Archaeological Impact Assessment

that are relevant to Archaeological Sites.

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ADDENDUM 2

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of Archaeologists) Biennial Conference, University of Venda, 10 July 1998 Report on Workshop on Standards for the Assessment of Significance and Research Priorities for Contract Archaeology, SA3 (Southern African Association ADDENDUM 3 Extracts from the National Monuments Act (No 28 of 1969, as amended in 1986)

It is recommended that a Phase 2 Archaeological Impact Assessment be undertaken. The details could be finalised through mitigation on

Depending on the Phase 2 report and its recommendations, it would be of the utmost importance that the archaeologist be notified should

- any graves and/or middens are encountered during initial clearing of the surface or during subsoil removal. Please refer to
- If any stonewalled structures are identified. allached addenda.

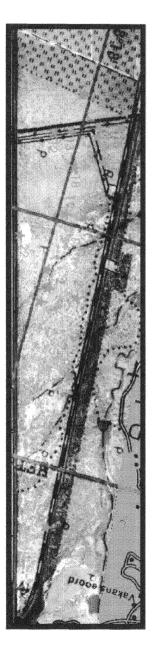
a portion of Het Bad 465 KR, Warmbad, where a housing project has been proposed, to assess the impact of the proposed project in terms of archaeological/historical sites and features and to make recommendations. The task was performed on May 26 and June 2, 1999 aim was to undertake a Phase 1 Archaeological Impact Assessment on approximately 150 ha on

by Mr F van Heerden (Realty 1), which were scanned. one assistant. features were photographed with a Kodak Digital DC120 camera. Aerial photographs were supplied reconnaissance, the sites are only numbered in sequence and indicated on the map survey of the entire area demarcated for development was done on foot by an archaeologist and Locations were recorded by means of a GPS (Garmin, 45XL), and archaeological/historical As these were at my disposal during the

DESCRIPTION

several spot checks were done in the grass veld. The site covers at least 150 ha. small streams were encountered. The southern most part is planted with sunflowers. The entire area is flat and mainly covered in dense vegetation with the result that most of the area was A dam and several

These are of mixed Stone Age (Middle as well as Late Stone Age) as well as Iron Age origin As can be seen on the map, the largest concentration of archaeological sites occur in the southern part

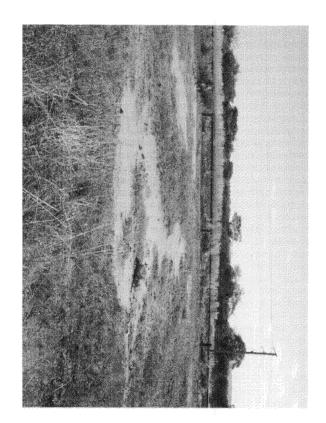


previous disturbance, e.g the roads, as for example, Site 6, which is a large, sandy area devoid of in which only a few artefacts were recovered. Finds were mostly made on the surface characterised by vegetation, and it thus seems that more finds are still covered by topsoil. The mean size of numbered find places (sites) is a 50 m diameter. Sites 1 - 5 are however much smaller

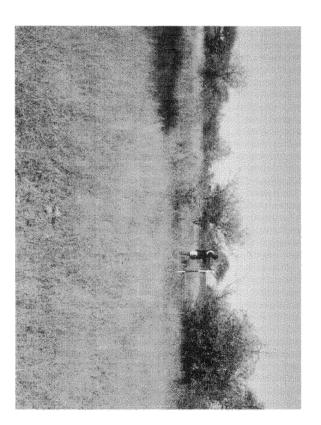
would characterize the area as one of tool preparation rather than a butcher site Most of the Stone Age finds were flakes and flaked pieces, with limited numbers of formal tools. 귀 S

present it is thus impossible to state with any certainty to which cultural group these belonged In those cases where Iron Age cultural material were found, the decorated or lipped pottery sherds were small and fragmented to be of any diagnostic value, or lacked any decorative attributes.

recovered from the surface. open, sandy area almost next to the railway line. Many microlithic and other small stone artefacts were Site 6 is of particular interest. It is the northern most find place presently identified and located in an



Site 20 could possibly be a living site, as a slight rise in the landscape could be indicative of the remains of an enclosure. It is however thickly covered with grass and small aloes. Again large numbers of small, but undiagnostic pottery sherds were found.



occupation and/or utilization, on the southernmost part of the designated area, is possibly indicative of however seem that the cluster of archaeological sites, especially those containing signs of Iron Age Age times (+ 100 000 ya) up until the Iron Age period. The specific Iron Age cultural group who occupied or utilized this area cannot be established at present without further investigation. It does higher occupational densities outside the area that had to be reconnoitred. From the cultural material recovered, it is clear that the area was utilized at least since the Middle Stone

reconnaissance impossible to establish the exact nature of the enclosure It seems that at least Site 20 was occupied by Iron Age people. It was however at the time of

RECOMMENDATIONS

In view of the above, it is recommended that a Phase 2 Archaeological Impact Assessment be undertaken of site 20 and that the area south of the \$24°54' latitude be investigated in more detail to should be finalised through mitigation on site.. collect a representative sample of pottery remains for the identification of the cultural group. The details

the archaeologist be notified should Depending on the Phase 2 report and its recommendations, it would be of the utmost importance that

- removal. Please refer to the affact any graves and/or middens are encountered during initial clearing of the surface or during subsoil
- If any stonewalled structures are identified. Please refer to the attached addenda

Deacon, J. 1996. Archaeology for Planners, Developers and Local Authorities. National Monuments Council. Publication no. P021E.

Deacon, J. 1997. Report: Workshop on Standards for the Assessment of Significance and Research Priorities for Contract Archaeology. In: Newsletter No 49, Sept 1998. Southern African Association of Archaeologists.

Meyer, A. 1994. Navorsingsmetodiek: Inligtingsformate vir Argeologiese Veldwerk. Dept Antropologie en Argeologie, UP.



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or two years imprisonment, or both. See Addendum 1 for extracts from this act. its original site, or excavate any such site or material without a permit from the National Monuments historical sites and material older than 50 years. It is an offence to destroy, damage, alter, remove from The National Monuments Act (No. A person convicted of an offence in terms of the Act, could be liable for a fine of up to R10000 28 of 1969) protects all palaeontological, archaeological

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 of the Environmental Conservation Act (No. 73 of 1989) the Integrated Environmental

ARCHAEOLOGICAL IMPACT ASSESSMENT

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

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

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

Phase 2

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

Phase 3

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 18th century foundations More rarely, the site may be so important that it will warrant modification of the development in a Phase 3 programme. If this happens, the archaeologist, the National Monuments Council and the developer solutions are possible if the archaeologist is consulted early enough in the planning process and associated rubbish dumps beneath a parking lot to avoid destroying them completely.

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

projects by selecting options that cause the least amount of inconvenience and delay. is protected. Careful planning can minimise the impact of archaeological surveys on development 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

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

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

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

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

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

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

- In South Africa, the Department of Environmental Affairs and Tourism published on 5 September 1997 listed activities 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 assessments compulsory for the
- N The National Heritage Bill, designed to replace the National Monuments Act in South Africa, came palaeontological sites are affected by development but are not protected by other legislation innovations, before the Cabinet and Parliament in 1998. It could become law from 1 April 1999. Amongst other it makes impact assessments compulsory where historical, archaeological
- ယ In neighbouring African countries, the tempo of contract work is also rising as new legislation and requirements of the World Bank are implemented

It seems widely accepted that CRM practitioners do mitigation to rescue the research potential of a site which would otherwise be lost. 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 Howiesons Poort, Stillbay or Robberg artefacts;
- human remains or burials
- fish traps;
- placement of Earlier Stone Age sites in the land.

- scape 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;
- evidence for exploitation of raw material sources such as haematite or specularite.

- Sites that will help to clarify the ceramic sequence of the Early Iron Age in the northern and eastern regions of southern Africa;
- any Bambata settlement;
- Early Iron Age sites with evidence for structures or long term occupation;
- sites with evidence for political or social hierarchies;
- evidence of the organization of metal production;
- burials with evidence for social differentiation, health and nutrition;
- evidence for trade within and outside of the Zimbabwe culture area;
- sites in areas that are under-researched to build up the culture-historical sequence;
- special-purpose sites such as rainmaking, circumcision, mining, furnaces, cattle posts vs living sites, salt making;
- Blackburn and Moor Park sites in KwaZulu-Natal;
- well preserved early Moloko sites with middens for evidence of diet and subsistence or stone

- ₩αlling;
- any Zimbabwe-style stone walling should be mapped in sufficient detail to estimate factors such as population size and grain-bin variability;
 evidence for contemporary cultural interaction,
- evidence for contemporary cultural interaction for example between Khami and Moloko;
- sites with architectural styles and information on materials used for housing, even in the recent past;
- evidence for the introduction of maize, either direct or in the style of grindstones used;
- sites with botanical remains of cultigens;
- information on the distribution, size and characteristics of dolly-holes for gold mining;
- evidence for textiles or weaving in addition to spindle whork;
- evidence for games and contextual information relating to them;

figurine caches and spatial relationships to set-

 tlements;
 check stone outcrops near stonewalled sites for engravings.

Historical / Colonial

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

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

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