CULTURAL HERITAGE ASSESSMENT EASTERN CAPE, SOUTH AFRICA BIZANA, OF PROPOSED LUDEKE DAM,

Assessment and report by

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Environmental and Geotechnical Consultants

4 September 2002

Introduction

Forestry. A project steering committee has been established in the affected community and two public meetings have been held to date. Local residents support the project Development Programme projects funded primarily through the Department of Water Affairs and the Bizana area in the Eastern Cape Province. It is one of a number of Reconstruction and A new dam site is proposed for construction at Ludeke to provide water to the rural communities of

by a surveyor, using white painted stones high. The area of the basin is approximately 1 500 by 400 metres in extent and has been demarcated excavated from within the dam basin. It will be about 200 to 300 metres long and 16 to 18 metres The development is envisaged as an earth embankment dam constructed using natural materials

affected by the proposed dam, in terms of the South African Heritage Resources Management Act, appointed eThembeni Cultural Heritage to undertake a cultural heritage assessment of the area stipulations of subsection 1 pertain: 1999 (Act No 25 of 1999). Section 38 of the Act requires a cultural heritage assessment where the to undertake the geotechnical and environmental components of the project. Terratest in turn Camdekon Engineers are the project managers for the scheme and appointed Terratest Inc.

- (2) development or barrier exceeding 300 m in length; the construction of a road, wall, powerline, pipeline, canal or other similar form of linear
- © @ the construction of a bridge or similar structure exceeding 50 m in length;
- any development or other activity which will change the character of a site
- exceeding 5 000 m² in extent; or
- 1 involving three or more existing erven or subdivisions thereof; or
- (iii) within the past five years; or involving three or more erven or subdivisions thereof which have been consolidated
- (IV) provincial heritage resources authority; the costs of which will exceed a sum set in terms of regulations by SAHRA or a
- @ the re-zoning of a site exceeding 10 000m² in extent; or
- heritage resources authority any other category of development provided for in regulations by SAHRA or a provincial

archaeological site, we limited our observations to surface cultural remains, without undertaking Green. We covered the entire dam basin on foot. Since a permit from SAHRA is required to disturb an excavations or sampling of any nature 1:50 000 topographic map and accompanied by Mr Steven Bok, a geologist employed by Jeffares and Two eThembeni staff members undertook a survey of the area on 29 August 2002, using the relevant

CULTURAL HERITAGE ASSESSMENT OF PROPOSED LUDEKE DAM, BIZANA, EASTERN CAPE

these time frames may assist readers to interpret our findings and discussions more readily: established by archaeological research during the past three decades. The following summary of Time frames relating to the first settlement of farmers along the south-eastern seaboard have been

Historical	1850 AD to present	
Pre-European settlement	1700 – 1850 AD	Age
Introduction of maize	1500 – 1700 AD	Iron
Settlement by Nguni speakers	1200 – 1500 AD	Late
Ntshekane phase	900 – 1200 AD	
Ndondondwane phase	700 – 900 AD	Age
Msuluzi phase	500 – 700 AD	Iron
Matola phase	400 – 500 AD	Early

Observations

locales fall outside of the full supply level (FSL) of the proposed dam. No Stone Age artefact scatters benefit from level building terrain and cooling breezes and avoid the danger of flooding watercourses are saturated easily, leading to waterlogging of crops. Existing homesteads are situated on hilltops to or knapping floors were observed In the past, Iron Age people would have chosen similar site localities for the same reasons. Such livestock grazing. Agricultural fields are situated preferentially on slopes, since the heavy clay soils Current land use is confined to agricultural activities, mainly summer rainfall crop production and

protection against bad luck. the pile of stones that is created at certain places in the landscape by Nguni-speaking people for At least one of the mounds is possibly an ancestral grave site, while another resembles an isivivane, mounds situated on the banks of a small stream flowing into the Ludeke river (refer to attached map). The only possible heritage remains observed in the surveyed area consist of four stone-capped

the ancestral graves, if they exist, so that appropriate mitigatory measures can be negotiated alteration or damage is unavoidable, research will be required to locate the families associated with Ancestral graves may not be altered or damaged in any way during the course of a development. If

remains with local residents We recommend that the Project Steering Committee discuss the nature of these possible heritage

CULTURAL HERITAGE ASSESSMENT OF PROPOSED LUDEKE DAM, BIZANA, EASTERN CAPE

Act, 1999, Section 38(3) Summary of findings in terms of the South African Heritage Resources Management

(a) the identification and mapping of all heritage resources in the area affected

The location of the possible ancestral grave(s) and isivivane is indicated on the accompanying map

9 an assessment of the significance of such resources in terms of the heritage assessment criteria set out in section 6(2) or prescribed under section 7

5(4) states further that obligation of the state to manage them carefully to ensure their survival for future generations. Section 3(3). These sections stress the intrinsic value and vulnerability of heritage resources and the resources management contained in Sections 5 and 6 of the Act, read in conjunction with Section eThembeni assessed the impact of the proposed development in terms of the principles for heritage

in their management managed in a way that acknowledges the right of affected communities to be consulted and to participate Heritage resources form an important part of the history and beliefs of communities and must be

these criteria, the sites have high cultural significance if they are recognised and valued by extant eThembeni has also developed site significance criteria for use and interpretation only by experienced cultural heritage managers with extensive site evaluation experience (see Appendix). According to families; otherwise they have low cultural significance

an assessment of the impact of development on such heritage resources

development. Appropriate mitigatory measures are provided in the body of this report Potential impact on the identified cultural resources is high, due to their location relative to the proposed

(1) an evaluation of the impact of the development on heritage resources relative to the sustainable social and economic benefits to be derived from the development

appropriate mitigatory measures are possible The social and economic benefits outweigh any impacts of the development on heritage resources, if

(e) the results of consultation with communities affected by the proposed development and other interested parties regarding the impact of the development on heritage resources

Such consultation could occur as part of the duties of the Project Steering Committee

9 if heritage resources will be adversely affected by the proposed development, the consideration of alternatives

Mitigatory measures are provided in the body of this report

(2) plans for mitigation of any adverse effects during and after completion of the proposed development

members, as described above Plans for mitigation will result from appropriate research, consultation and negotiation with family

Conclusion

fulfilment of the requirements of the Heritage Resources Management Act, 1999. According to We recommend that the client submit this report to the South African Heritage Resources Agency in Section 38(4) of the Act.

The report must be considered timeously by the responsible heritage resources authority which must, after consultation with the person proposing the development, decide

- whether or not the development may proceed;
- 0 ල ම any limitations or conditions to be applied to the development;
- to such heritage resources what general protections in terms of this Act apply, and what formal protections may be applied
- **a** destroyed as a result of the development; and whether compensatory action is required in respect of any heritage resources damaged or
- whether the appointment of specialists is required as a condition of approval of the proposal.

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development activities requires that a developer cease all work immediately and notify the South African Heritage Resources However, if permission is granted for development to proceed, the client is reminded that the Act Agency should any cultural heritage remains, as defined in the Act, be uncovered during the course of

APPENDIX

SIGNIFICANCE AND VALUE OF ARCHAEOLOGICAL SITES

Southern African Iron Age

	08		TION
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Unique or type site			Yes
Formal protection			Yes
Spatial patterning	?Yes	?Yes	?Yes
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Degree of disturbance	%001 - c/	25 - /4%	0-24%
Organic remains (list types)	$0 - 5 / m^2$	6 – 10 / m ²	11 + / m ²
		CONTRICTOR AND	
Inorganic remains (list types)	0-5/m ²	6 – 10 / m ²	11 + / m²
Ancestral graves			Present
			ada di di da
Horizontal extent of site	< 100m²	101 – 1000m²	1000 + m²
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Depth of deposit	1 20CIII	Z - 30CI	+ =
Spiritual association			Yes
Oral history association			Yes
Research potential			3
Educational potential			High

Please note that this table is a tool to be used by qualified cultural heritage managers who are also experienced site assessors.