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Report on a Phase 1 Archaeological Assessment of proposed salt works areas on the Goeboe Goeboe Pan, north of Upington, Northern Cape.

> David Morris October 2005

Works areas on the Goeboe Goeboe Pan north of Upington, Northern Report on a Phase 1 Archaeological Assessment of proposed salt Cape.

David Morris Kimberley : October 2005

Introduction

The archaeology of the Northern Cape is rich and varied, covering long spans of human history. Concerning Stone Age sites here, C.G. Sampson has saved from destruction, or adequately mitigated and/or managed to facilitate development while ensuring that what should be conserved is not all sites are equally significant. Heritage impact assessments are a means observed: "It is a great and spectacular history when compared to any other place in the world" (Sampson 1985). Some areas are richer than others, and Some areas are richer than others, and

The present report concerns archaeological observations on proposed salt works areas on Goeboe Goeboe Pan (on the farm Kalahari-Wes 251) north of Upington, Northern Cape

wider region against which field survey observations may be assessed This report also provides background information on the archaeology of the

Terms of reference

assessment; and mitigation measures and recommendations proceed. The report was to provide: site description; methodology; impact pan in question and to assess significance of impact should salt mining Terms of reference were to detail observations based on a field survey on the

Legislation

protection for archaeological resources. The National Heritage Resources Act (No 25 of 1999) (NHRA) provides

position, or collect, any archaeological material or object (defined in the Act), without a permit issued by the S. A. Heritage Resources Agency (SAHRA). It is an offence to destroy, damage, excavate, alter, or remove from its original

be given for any form of disturbance, assessment and approval. mining, prospecting or older than 60 years. In order for the authority to assess whether approval may relevant heritage resources authority. and requires that anyone wishing to disturb a site must have a permit from the Section 35 of the Act protects all archaeological and palaeontological sites development Section 36 protects human remains may a specialist report is required. take place without heritage

Wethods and limitations

what might be expected in the region. A background literature/museum database search provides indications of

some sense of the archaeology of the surrounding dunes was desirable to beyond the pan floor being the access road, which already exists. Thus while associated infrastructure within the pan floor area, with the only impacts have, the major focus of the investigation was the pan floor itself. some detail. Salt mining entails construction of evaporation dams and During the site investigation, areas of proposed mining were examined in

of localised deflation or erosion. Hence, subsurface archaeological traces and archaeological traces typically would occur below surface except in instances flasks, then work should be halted and a professional archaeologist consulted features may occur at the margins of the pan. In the event that any major present in this environment, given the processes of deflation that create pans regarded as providing a fair estimate of the nature and range of material When assessing archaeological resources, surface indications may be feature is encountered, for example a burial or a cache of ostrich eggshell By contrast, the dunes represent processes of sedimentation and

Background: archaeological resources in the region

observations archaeological viewpoint, certain insights exist from a limited number of prior While much of the surrounding region has yet to be examined from an

drier western tracts it is probable that foraging persisted as an almost no rock art sites are known. exclusive pursuit into the early colonial era. In the absence of rock outcrops an older trajectory of stone tool making (Morris & Beaumont 2004). In these east, with the appearance there of farming (herding and agriculture) alongside foraging, and of ceramic and metallurgical (Iron Age) technologies alongside era). The last 2000 years was a period of increasing social complexity to the span of human history from Earlier Stone Age times (more than one and a $270\ 000-40\ 000$ years ago), to the Later Stone Age (up to the protocolonial half million to about 270 000 years ago), through the Middle Stone Age (about Broadly speaking, the archaeological record of this region reflects the long

with Dwyka tillite, which provided ample raw material. A pan-side setting of note where this occurs is at Eenzaamheid Pan. Earlier Stone Age sites have been documented to the south in areas strewn

Lodge site, for example, at 27°10.986' S 20°24.392' E). south (Norokei Pan, Groot Wit Pan) and to the north (adjacent to the Molopo frequently to bear traces of Later Stone Age sites, noted previously both to the Dune crests and slopes, where deflation exposes older surfaces, are known

Observations

basalt and, occasionally, chert, was observed at certain points near the edges of the pan (for example at 27°22,373' S 20°52.668' E, and 27°22,484' S 20°50.668' E), fanning out in extremely low densities across the present A very sparse scatter of Stone Age artefacts, principally on quartzite, corroded

wore examined No Later Stone Age sites were found on those dunes flanking the pan that

decommissioning phases of mining. Assessment of impacts during construction, operational and

and expansion of the salt works on the pan floor, but given the very low densities of artefacts, the impact would be negligible and no mitigation is regarded as being necessary. There would be an impact on archaeological resources during development

Recommendations

negative impact on the archaeological resources of the region The proposed salt mining at this pan is not expected to have a significant

Procedure in the event of sites being found during construction or

make recommendations for mitigation, if necessary. All archaeological traces accredited archaeologist for such work. position to send an archaeologist at short notice, or to recommend an are protected by legislation. The McGregor Museum would normally be in a archaeologist should be alerted immediately in order to assess the find and In the event that sites or features (eg high density of artefacts, a burial, or ostrich eggshell cache) are found during construction or mining, an

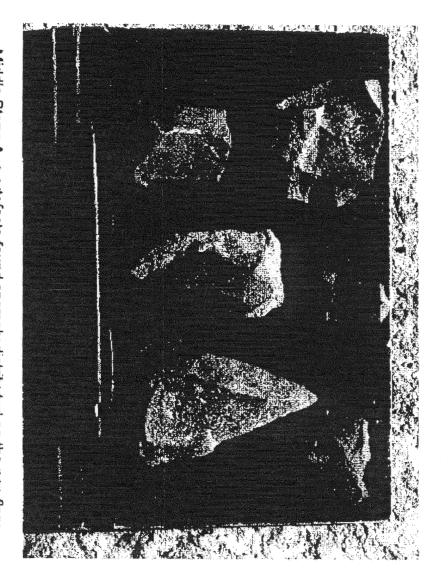
Acknowledgements

I thank Ms Lindsay Weiss, Mr Ron Jennings and Mr Tsholofelo Chinkuli, who accompanied me to the area.

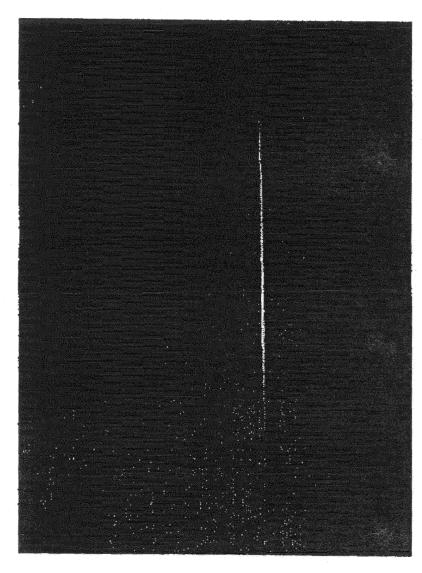
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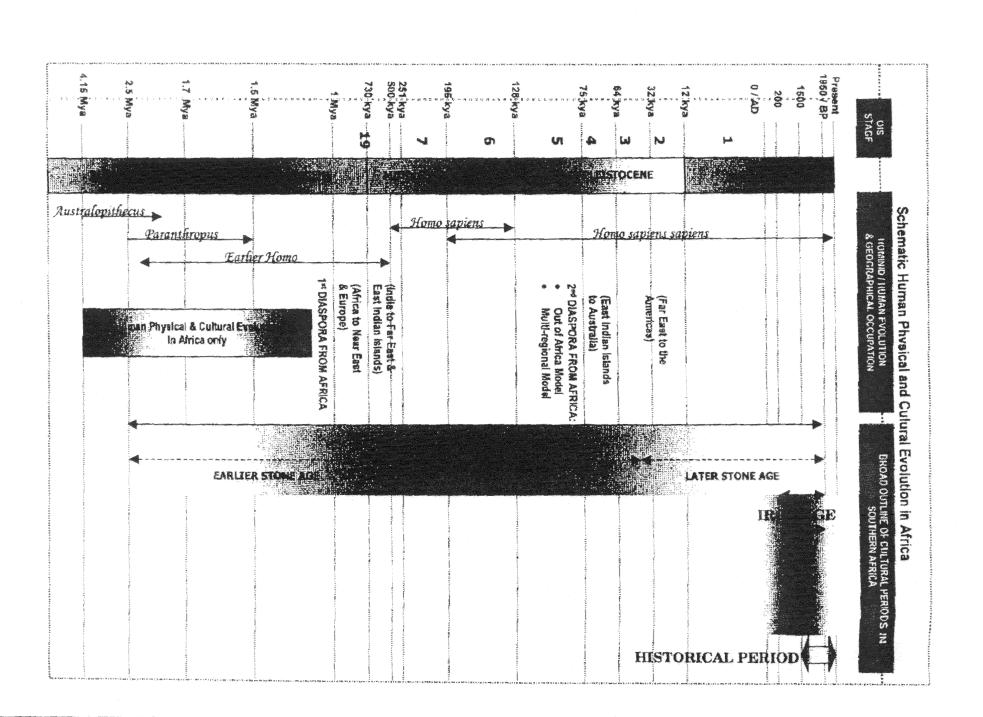
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Middle Stone Age artefacts found sparsely distributed on the pan floor.



Goeboegoeboe Pan - the strip of white indicates a former salt evaporation dam.



Extracts from the

National Heritage Resources Act (No 25 of 1999)

DEFINITIONS

Section 2

In this Act, unless the context requires otherwise: "Archaeological" means -

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- Q) in or on land and which are older than 100 years, including artefacts, human and material remains resulting from human activity which are in a state of disuse and are
- g hominid remains and artificial features and structures; rock art, being any form of painting, engraving or other graphic representation on a fixed rock surface or loose rock or stone, which was executed by human agency and
- 0 worthy of conservation. which is older than 100 years, including any area within 10 m of such representation; wrecks, being any vessel or aircraft, or any part thereof, which was wrecked in South Africa, whether on land, in the Internal waters, the territorial waters or in the maritime associated therewith, which is older than 60 years or which SAHRA considers to be culture zone of the Republic and any cargo, debris, or artefacts found or
- future a change to the nature, appearance or physical nature of a place, or influence its stability and caused by natural forces, *Development well-being, includingmeans any physical intervention, excavation or action, other than those which may in the opinion of a heritage authority in any way result in

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- at a place; construction, alteration, demolition, removal or change of use of a place or structure
- U carrying out any works on or over or under a place.
- C subdivision or consolidation of land comprising, a place, including the structures or airspace of a place:

- d) constructing or putting up for display signs or hoardings:
 e) any change to the natural or existing condition or topography of land; and
 f) any removal or destruction of trees, or removal of vegetation or topsoll;
 "Grave" means a place of interment and includes the contents, headstone or other marker of

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- 첯 such a place, and any other structure on or associated with such place;
 "Living heritage" means the intangible aspects of inherited culture, and may include —
- 90 cultural tradition;
- performance; oral history,
- ritual;
- 000 popular memory;
- د skills and techniques;
- indigenous knowledge systems; and
- XX. h) the holistic approach to nature, society and social relationships.
 "Palaeontological" means any fossilised remains or fossil trace of animals or plants which lived in the geological past, other than fossil fuels or fossiliferous rock intended for industrial use, and any site which contains such fossilised remains or trance;
- × "Site" means any area of land, including land covered by water, and including any structures
- X or objects thereon;
 "Structure" means any building, works, device or other facility made by people and which is fixed to land, and includes any fixtures, fittings and equipment associated therewith

NATIONAL ESTATE

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- For the purposes of this Act, those heritage resources of South Africa which are of cultural significance or other special value for the present community and for future generations must be considered part of the national estate and fall within the sphere of operations of heritage resources authorities.
- Without limiting the generality of subsection 1), the national estate may include -

2)

- places, buildings, structures and equipment of cultural significance; places to which oral traditions are attached or which are associated associated with living
- 99990 landscapes and natural features of cultural significance; historical settlements and townscapes

hertage:

archaeological and palaeontological sites:

geological sites of scientific or cultural importance

- graves and burial grounds, including ancestral graves;

- royal graves and graves of traditional leaders

- graves of victims of conflict
- graves of Individuals designated by the Minister by notice in the Gazette
- historical graves and cemeteries; and
- < < ₹ =: other human remains which are not covered in terms of the Human Tissue Act, 1983 (Act No 65 of 1983)
- sites of significance relating to the history of slavery in South Africa:
- S movable objects, including
- archaeological and palaeontological objects and material, meteorites and rare geological specimens; objects recovered from the soil or waters of South Africa, including
- living hentage; objects to which oral traditions are attached or which are associated with
- ethnographic art and objects
- military
- objects of decorative or fine art;
- $\leq \leq \leq \neq \equiv$ objects of scientific or technological interest; and
- books, records, documents, photographic positives and negatives, graphic, film or video material or sound recordings, excluding those that are public records as defined in section 1 xiv) of the National Archives of South Africa Act, 1998 (Act No 43 of 1996).

STRUCTURES Section 34

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 relevant provincial heritage resources authority.

ARCHAEOLOGY, PALAEONTOLOGY AND METEORITES

- ٥ (4) in the course of development or agricultural activity must immediately report the find to the responsible heritage resources authority, or to the nearest local authority offices or museum, which must immediately notify such heritage resources authority. Any person who discovers archaeological or palaeontological objects or material or a meteorite
- No person may, without a permit issued by the responsible heritage resources authority. destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or
- S palaeontological site or any meteorite; destroy, damage, excavate, remove from its original position, collect or own any
- archaeological or palaeontological malerial or object or any meteorite;
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- 9 trade in, sell for private gain, export or attempt to export from the Republic any category of archaeological or palaeontological material or object, or any meteorite; or bring onto or use at an archaeological or palaeontological site any excavation equipment or any equipment which assists in the detection or recovery of metals or archaeological and palaeontological material or objects, or use such equipment for
- the recovery of meteorites.

 When the responsible heritage resources authority has reasonable cause to believe that any and no heritage resources management procedure in terms of section 38 has been followed, it palaeontological site is under way, and where no application for a permit has been submitted activity or development which will destroy, damage or alter any archaeological or

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- 20 specified in the order. development an order for the development to cease immediately for such period as is serve on the owner or occupier of the site or on the person undertaking such
- 0 carry out an investigation for the purpose of obtaining information on whether or not
- 0 person on whom the order has been served under paragraph a) to apply for a permit if mitigation is deemed by the heritage resources authority to be necessary, assist the an archaeological or palaeontological site exists and whether mitigation is necessary as required in subsection 4); and
- 0 person proposing to undertake the development if no application for a permit is received within two weeks of the order being served. which it is believed an archaeological or palaeontological site is located or from the recover the costs of such investigation from the owner or occupier of the land on
- on which an archaeological or palaeontological site or meteorite is situated, serve a notice on the owner or any other controlling authority, to prevent activities within a specified distance from such site or meteorite. The responsible heritage resources authority may, after concultation with the owner of the land

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- S No person may, without a permit issued by SAHRA or a provincial heritage resources authority
- 0 contains such graves disturb the grave of a victim of conflict, or any burial ground or part thereof which damage, after, exhume or remove from its original position or otherwise
- D cemetery administered by a local authority; or bring onto or use at a bunal ground or grave referred to in paragraph a) or b) any any grave or burial ground older than 60 years which is situated outside a formal destroy, damage, alter, exhume, remove from its original position or otherwise disturb
- 0 excavation equipment, or any equipment which assists in the detection or recovery of
- ۵ made by the responsible heritage resources authority. SAHRA or a provincial heritage resources authority may not issue a permit for the destruction of any burial ground or grave referred to in subsection 3a) unless it is satisfied that the contents of such graves, at the cost of the applicant and in accordance with any regulations applicant has made satisfactory arrangements for the exhumation and re-interment of the
- 9 SAHRA or a provincial heritage resources authority may not issue a permit for any activity under subsection 3b) unless it is satisfied that the applicant has, in accordance with regulations made by the responsible heritage resources authority -
- made a concerted effort to contact and consult communities and individuals who by tradition have an interest in such grave or burial ground; and reached agreements with such communities and individuals regarding the future of
- 0 such grave or burial ground.

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- Subject to the provision of any other law, any person who in the course of development or any other activity discovers the location of a grave, the existence of which was previously unknown, must immediately cease such activity and report the discovery to the responsible heritage resources authority which must, in co-operation with the South African Police Service and in
- accordance with regulations of the responsible heritage resources authority –
 a) carry out an investigation for the purpose of obtaining information on whether or not such grave is protected in terms of this Act or is of significance to any community; and
- 9 if such grave is protected or is of significance, assist any person who or community which is a direct descendant to make arrangements for the exhumation and reinternment of the contents of such grave or, in the absence of such person or community, make any such arrangements as it deems fit,

HERITAGE RESOURCES MANAGEMENT

- development categorised as -Subject to the provisions of subsections 7), 8) and 9), any person who intends to undertake
- <u>a</u> linear development or barder exceeding 300 m in length; the construction of a bridge or similar structure exceeding 50 m in length the construction of a road, wall, powerline, pipeline, canal or other similar form of
- 0.5 any development or other activity which will change the character of a site – i. exceeding 5 000 m² in extent; or

- consolidated within the past five years; or involving three or more existing erven or subdivisions thereof, or involving three or more erven or subdivisions thereof which have been
- or a provincial heritage resources authority; the rezoning of a site exceeding 10 000 m² in extent; or 7 the costs which will exceed a sum set in terms of regulations by SAHRA
- 0,0 any other category of development provided for in regulations by SAHRA or a

provincial heritage resources authority.

must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.

- Ŋ terms of subsection 1) The responsible heritage resources authority must, within 14 days of receipt of a notification in
- notify the person concerned that this section does not apply professional standing in heritage resources management; or heritage resources authority with relevant qualifications and experience and proposing the development, by a person or persons approved by the responsible an impact assessment report. Such report must be compiled at the cost of the person development, notify the person who intends to undertake the development to submit if there is reason to believe that heritage resources will be affected by such
- responsible heritage resources authority must specify the information to be provided in a of required in terms of subsection 2a) ...

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

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

APPOINTMENT AND POWERS OF HERITAGE INSPECTORS Section 50

- J premises for the purpose of inspecting any heritage resource protected in terms of the provisions of this Act, or any other property in respect of which the heritage resources authority is exercising its functions and powers in terms of this Act, and may take photographs, make measurements and sketches and use any other means of recording information necessary for the purposes of this Act. by a heritage resources authority in writing, may at all reasonable times enter upon any land or Subject to the provision of any other law, a heritage inspector or any other person authorised
- 9 A heritage inspector may at any time inspect work being done under a permit issued in terms of this Act and may for that purpose at all reasonable times enter any place protected in terms of this Act
- 9 Where a heritage inspector has reasonable grounds to suspect that an offence in terms of this Act has been, is being, or is about to be committed, the heritage inspector may with such assistance as he or she thinks necessary –
- 2 stop and detain any vehicle, vessel or craft, in or on which the heritage inspector believes, on reasonable grounds, there is evidence related to that offence; confiscate and detain any heritage resource or evidence concerned with the enter and search any place, premises, vehicle, vessel or craft, and for that purpose
- 9 resources authority; and take such action as is reasonably necessary to prevent the commission of an offence commission of the offence pending any further order from the responsible heritage
- C in terms of this Act.

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A heritage inspector may, if there is reason to believe that any work is being done or any action is being taken in contravention of this Act or the conditions of a permit issued in terms of this Act, order the immediate cessation of such work or action pending any further order from the responsible heritage resources authority.