McGregor Museum Department of Archaeology



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

David Morris October 2005

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

David Morris Kimberley : October 2005

Introduction

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 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 place in the world" (Sampson 1985). Some areas are richer than others, and

mining areas on Opstaan Pan north of Upington, Northern Cape The present report concerns archaeological observations on proposed salt

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 South African Heritage Resources Agency It is an offence to destroy, damage, excavate, alter, or remove from its original (SAHRA)

be given for any form of disturbance, a specialist report is required. No Section 35 of the Act protects all archaeological and palaeontological sites and requires that anyone wishing to disturb a site must have a permit from the assessment and approval. older than 60 years. In order for the authority to assess whether approval may relevant heritage resources authority. Section 36 protects human remains prospecting 9 development may take place without

Methods and limitations

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

have, thremajor focus of the investigation was the pan floor itself. some serse 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 some detil. Salt mining entails construction of evaporation dams and the site investigation, areas of proposed mining were examined in

of ostrich eggshell flasks, then work should be halted and a professional event that any major feature is encountered, for example a burial or a cache features may occur at the margins of the pan where such dunes occur. In the archaeological traces typically would occur below surface except in instances archaeologist consulted. of local ised deflation or erosion. Hence, subsurface archaeological traces and By contrast, the dunes represent processes of sedimentation and 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

Background: archaeological resources in the region

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

exclusive pursuit into the early colonial era. In the absence of rock outcrops drier western tracts it is probable that foraging persisted as an almost foraging, and of ceramic and metallurgical (Iron Age) technologies alongside an older trajectory of stone tool making (Morris & Beaumont 2004). In these no rock art sites are known. east, with the appearance there of farming (herding and agriculture) alongside era). The last 2000 years was a period of increasing social complexity to the Broadly speaking, the archaeological record of this region reflects the long 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

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

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 Lodge site, for example, at 27°10.986' S 20°24.392' E). Dune crests and slopes, where deflation exposes older surfaces, are known

Observations

and chalcedony, together with rare pieces of ostrich eggshell, was observed at certain points near the western edge of the pan in the vicinity of GPS readings 27°10.988' S 20°24.394' E, and 27°10.986' S 20°24.392' E. It was A very sparse scatter of Stone Age artefacts, principally on quartzite, chert

dune which is eroding out at the sides of the pan. one backed point. It seemed probable that the artefacts as a whole represent clear th atthese artefacts were eroding out of adjacent slightly calicified, consolicated palaeodunes. The scatter extended not more than about 30 m onto the jan floor. Artefact densities reached up to about 1/ m². They included Later S tone Age occupation at a period coeval with the consolidated older

examin ed. Age sities were found on those dunes further up the sides of the pan that were No arte facts were found on other parts of the pan surface. No Later Stone

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

mitigation is regarded as being necessary. artefacts found occurring only on the western-most fringe of the pan. No development and expansion of the salt works on the pan floor, with the only There would be very little impact on archaeological resources during

Recommendations

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

Procedure in the event of sites being found during construction or mining

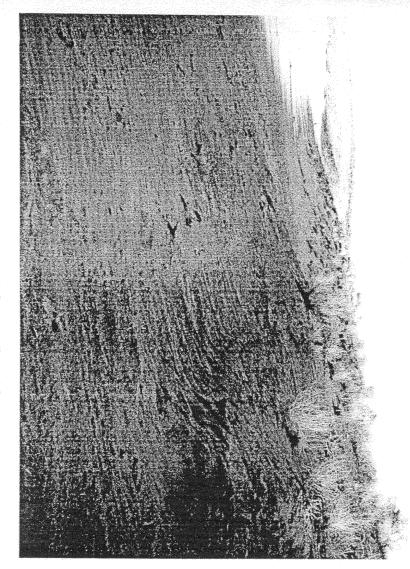
In the event that sites or features (eg high density of artefacts, a burial, or ostrich eggshell cache) are found during any part of construction or mining, an position to send an archaeologist at short notice, or to recommend an are protected by legislation. The McGregor Museum would normally be in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

Acknowledgements

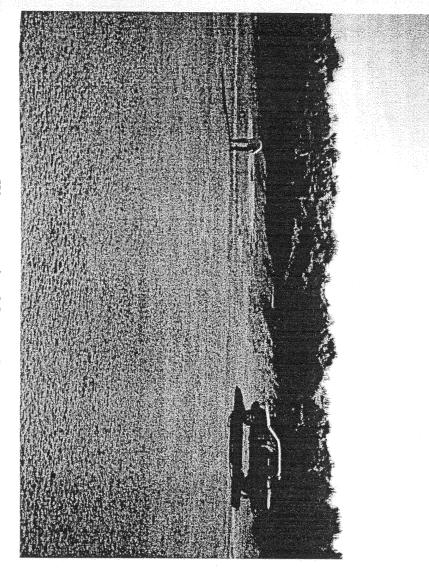
accompanied me to the area I thank Ms Lindsay Weiss, Mr Ron Jennings and Mr Tsholofelo Chinkuli, who

References

- Morris, D. & Beaumont, P.B. 2004. Archaeology in the Northern Cape: Some key sites. Kimberley: McGregor Museum
- Sampson, C.G. 1985. Atlas of Stone Age settlement in the central and upper Seacow Valley. *Memoirs of the National Museum* 20.



Palaeodune erosion at the western side of Opstaan Pan. LSA artefacts occur in Iow densities down-slope.



Western margin of Opstaan Pan.

