

ADDO ELEPHANT NATIONAL PARK: UPGRADING OF EXISTING TOURIST ROAD NETWORK AND CONSTRUCTION OF SOUTHERN ACCESS ROAD NEAR COLCHESTER - PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENT COLCHESTER

Prepared For:

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INTRODUCTION

the construction of the road, and to suggest possible mitigation. assessment was to identify any archaeological sites, which might be threatened with construction of a assessment of the upgrading of the existing tourist network in the Park as well as the The Albany Museum was southern access road from Colchester into Park. The aim of the appointed to undertake an archaeological impact

1.1 Background

The terms of reference of this study are to:-

- To determine =; any archaeological sites might 90 the Addo threatened
- construction of the southern access road into the Addo Elephant National Etephdon Phyk.any archaeological sites that might be threatened upgrading of the from Colchester to the existing Park fence. The survey was specifically aimed at surveying the 27 km of the road existing tourist road network within National by the
- In the event of sites being threatened, to suggest possible alternative routes.

1.2 Study Area

northerly direction from Colchester, traversing a hilly area, to join with the existing Colchester). This will be an approximate distance of 27 km. This area will be study area includes the existing Addo Elephant National Park as well as the between the southern Park fence and the National Road through Colchester. in the Park at the approximate location of Spekboom (Map bisected by the access road which will follow an approximately 3325

1.3 Approach to study

establishment of the rest camp. Colchester to the rest camp) as the contractors were anxious to start with the examined Addo Heights 209 and Glenmore 155 the road would follow. It was not possible to walk or drive the entire 27 km of the road from Colchester, through the farms Oliphants Plaat 214, Zoute Fontein 210, June 2003. Members of the contracting team were present to indicate the route that which the the southern section of the road of road will follow, has not been specifically determined. We therefore survey, together with a botanist Mr T Dold, was undertaken on the 10 to the Park fence because the exact route most immediate concern (from

Since the southern section of the road (through a portion of Oliphants Plaat 214) in situ material will be found in this area. However, a number of gravel exposures Road was not surveyed by the archaeologist as this area is prone to flooding and no km of the 27 km from a vehicle and on foot. The flood plain adjoining the National will follow an existing track for part of the way, it was possible to survey the first 4-5

to widen this track by approximately 1 m on either side. floodplain. In many cases, artifacts were found in the existing track. The intention is archaeological material were discovered in the hilly area adjoining the

route that the road would follow at this end, and a number of possibilities were suggested. The length of the route, through thick Eastern Cape Valley Bushveld, assess the existing tourist road network, as well as the northern section of the access road as far as the Addo Heights. The contractors were less certain about the exact made any surveying on foot impractical. location of the proposed rest camp), we traveled into the Park in the afternoon to After examining the southern end of the road (a distance of some 4-5 km up to the

on the access road between Oliphants Plaat and Addo Heights. network in the Park, Colchester to the proposed rest camp. This survey is not able to express an opinion The comments made below, are on the upgrading of the existing tourist as well as the southern section of the access road from road

2. GENERAL OBSERVATIONS ON THE ARCHAEOLOGY OF THE AREA

the new access road. the likelihood that further open sites might be located in the area to be bisected by possible Early Stone Age handaxe. The location of this site alerted archaeologists to comprised mainly quartzite and silcrete gravel donga exposure, on the farm Glenmore on the Addo Heights (S 25.82950). It is site A0020 on the cultural mapping database. Park (GAENP) indicated the presence of an open Middle Stone Age A pilot survey in 2002 of the heritage sites in the Greater Addo Elephant National site A0020 on the cultural mapping database. The quartzite and silcrete flakes and flaked cobbles. There The site in a red

of calcretized blesbok/bontebok, buffalo and an extinct ass-like zebra tools. A suggested date of 80 000 to 65 (S 33. 61675; E 26.45008). The sediment contained fossil teeth, bone and MSA stone Interestingly, There is also a reference in Illenberger, Goedhart & Hattingh (1997) to an outcrop of calcretized Cenozoic sediment on the farm Bosrijk 243, just north of Alexandria the bone has been identified as 000 years has been proposed for the site. belonging Ö wildebeest.

immediately below the top soil, down to a depth of around 30 cm. They are therefore generally invisible, except on occasions when they are exposed in river cuttings and dongas. They appear to be randomly distributed in the top red gravels. geologically of recent origin (some 3 million years old). Kinkelbos Formation, which is part of the Algoa Group and these river quartzite flakes. There are very few diagnostic flakes. Sundays River as Early and Middle Stone Age (ESA and MSA) scatters are found on the banks of the majority but have been distributed by river action. These red that they are widely distributed of artifacts well as the consist of Bushman's flaked quartzite cobbles (with and it River. would appear that they are not in These The extent of the scatters gravels are scatters cortex) and part of the are They are tound

دب RESULTS OF THE SURVEY

3.1 Site 1

Immediately after passing the pit, and driving through a set of gates, there is a slope of exposed red gravel on the left hand side of the road (at around PI road. The scatter continues down into the road (Fig.) be located in a gravel band and are widespread along a level parallel to the collected for identification of the raw material. The stone artifacts appear to which contains cobbles and stone artifacts. A black shale core was

GPS. S 33.68337

图 25.79742

suggests an ESA date for the scatters (Fig.). A single stone handaxe, at the side of the existing trackway (at around PI 5),

GPS: S 33.68040

E 25,79919

3.3 Site 3

PI 6). A further outcrop of stone tools on the left hand side of the road (at around

GPS: S 33.68172

医 25.79750

diagnostic tools. Fig.). This donga, too, contains scatters of quartzite flakes but there are no the hill, appears to consist of a calcrete capping. The lower is red gravels (see possible stabilization. The top section of the donga, which runs to the crest of located some 20 m from the camp, and suggestions were made regarding its down the slope, right next to the location of the new rest camp. The donga is proposed rest camp. There is a very large erosion donga running vertically The access road splits at PI 9, and the section to the left runs up a kloof to the

GPS: S 33.67441

E 25.80273

Some 400 m along this road, the track cuts across red gravel deposits at PI The access road, after its split to the rest camp at PI 9, runs to the right.

that would otherwise be below the top soil (Fig.). and flaked cobbles. In this case, the road has actually exposed the artifacts 10, PI 11 and PI 12, and these too contain large numbers of quartzite flakes

GPS: S 33,40,38 E 25,48,17

4. IMPACT IDENTIFICATION AND ASSESSMENT

sites and it is an offense to destroy, damage, excavate, alter, deface or disturb archaeological sites without a permit issued by the South African Heritage Resources Agency (SAHRA). The National Heritage Resources Act (No 25 of 1999) protects all archaeological

development. Where this is not possible, mitigation must be arranged. Even ephemeral sites may have significance and should be sampled and recorded. A permit is needed for the destruction of a site if this is deemed necessary. It is important to note that permits are needed when sites are threatened by sites Where of significance possible, arrangements should be rather than allowing made their to conserve destruction Ş

these distributions have no apparent beginning or end. location seems to be related to possible water action. It is therefore not possible to talk about 'sites' random distributions of stone tools. It is clear that they are not in situ, and their Any disturbance of the topsoil, man made or otherwise, seems to widely across the landscape between the Sundays and the Bushmen's This preliminary survey indicates that ESA and MSA in the conventional (archaeological) sense of the word, as scatters are distributed

on top of the red gravel 'Kinkelbos Formation'. association with fossilised bone remains have been found in the calcrete capping remains. However, These scatters are not found in association with any bone, further east, towards Alexandria, MSA stone tools or other material

areas that will be impacted by the road building, is not likely to be significant. information potential, and since they cover such a large area, the loss of small distributions, 214 is likely to expose scatters of stone artifacts. It is not possible to predict these construction of roads (and rest camps) in southern area of Oliphants cut through these stone tools scatters. These scatters have and it seems pointless and expensive, to re-route existing

sites were observed along these roads which would be affected by the upgrading widening of the roads, by approximately 1 m on either side. No archaeological With regard the upgrading of the existing tourist network in the Park, these will either be surfaced or re-gravelled. This will involve the possible

5. CONCLUSIONS

Stemains and this phase of the work may continue. archaeological sensitivity in this report extends only from the National Road at Colchester to the rest camp, a distance of some 4-5 km. The upgrading of the existing tourist road network in the Park will not impact on archaeological proposed road has not been finalized. The degree of confidence regarding because of the density of the vegetation and the fact that the exact route of the the beginning (first 4 km) of the southern access road on the 10 June 2003. The entire 27 km of the road could not be surveyed in the course of 1 day. This was No archaeological remains of significance were discovered during the survey of

interest in terms of possible archaeological information. would suggest that this would involve walking sections of the route once it has been cleared of bush. Hilly areas and stream banks would be of particular archaeological survey will be necessary once the exact route has been finalized. I predictions regarding archaeological sites in this area. Glenmore 155 to the southern Park fence, means that I am not able to make any The uncertainty regarding the exact route that the proposed road will follow from Oliphants Plaat 214, through Zoute Fontein 210, Addo Heights 209 and It is my opinion that an

access road in order to avoid the tools. tools, neither does it seem necessary to re-route the first 4-5 km of the southern not seem necessary to insist that a permit is needed to disturb these scatters of cobbles may be due to natural flaking in old river beds. For this reason, it does belong to the ESA or MSA or both. In some cases it is also possible that the split that any of these scatters are in primary context. They have been moved by water action, and their association no longer contains significant information. The majority of these remains are undiagnostic, and it is not clear whether they banks of rivers and streams, in road cuttings and in dongas. It seems unlikely The archaeological scatters that were found during the survey appear to be part of a large, random scatter of artifacts distributed widely across the landscape Sundays to the Bushmen's Rivers. These scatters are exposed on the widely across the landscape

Colchester to the rest camp may continue if the following recommended that the development of the southern access road from guidelines

- Every care should be taken during the bull dozing of the road. Buried sites so that he is alert to the possibility of buried archaeological remains. reported to SAHRA and the archaeologists at the Albany Museum immediately. It is important to make this clear to the driver of the bull-dozen may be uncovered which were not visible during as well as stone artifacts together with the survey. Sites such as h fossilized bone, should Museum
- N the visitors Every effort should be made to stabilize it so that it does not offer a threat to The donga adjoining the rest camp should be monitored on a regular basis.

دي archaeological remains, and they should be discouraged from collecting stone Visitors to the rest camp should be alerted to the fact that the law protects This information could be made available in the form of a

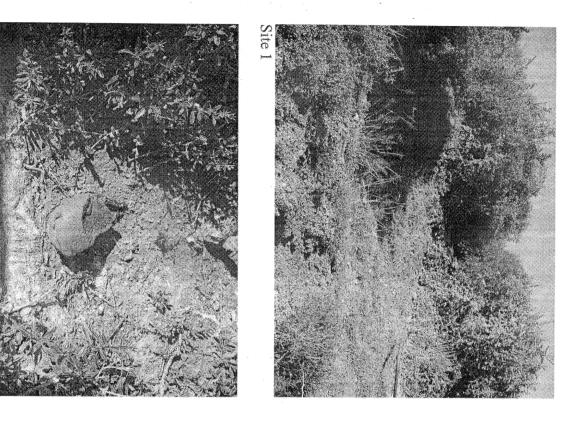
6. TERMINOLOGY

made in the same pattern until around 125 000 years ago. seem to coincide with the appearance of Homo erectus peoples. These tools were By around 1,5 million years ago distinctive stone tools called handaxes appear and Early Stone Age: the earliest stone tool assemblages date from 1,7 million years ago.

marine shell have been found in association with the stone tools. between 125 000 and 40 000 years ago. In some circumstances, fossil bone are frequently made on fine-grained raw materials such as silcretes. These tools date Middle Stone Age: tools consists mainly of long blades or triangular flakes and reflect a more controlled use of flaking properties than during the ESA. These tools

7. REFERECES

National Park Cultural Mapping Pilot Project. Albany Museum Internal Report: 90 Cocks, M., de Klerk, W., Way-Jones, F. & Webley, L. 2002. Greater Addo Elephant



Site 2

