PRELIMINARY ARCHAEOLOGICAL MPACT ASSESSMENT

For a Telkom Mast Site at Wakkerstroom

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PRELIMINARY ARCHAEOLOGICAL IMPACT ASSESSMENT OF THREE PROPOSED SITES FOR A TELKOM MAST AT WAKKERSTROOM, MPUMALANGA

Introduction

conducted in accordance with the newly approved National Heritage Resources Act evaluated during the first phase archaeological investigation. (PAIA) in Wakkerstroom, Mpumalanga. Three identified areas were surveyed and 20m site, which was investigated Analysis Services to perform a Preliminary Archaeological Impact Assessment Archaeo-Info Northern Province was commissioned by Tekplan Environmental of 1999. The three proposed study areas consisted each of an estimated 20m x The PAIA

2. Aim

prescribed in Act 25 of 1999 assess the impact the development will have on possible archaeological sites and the mast were surveyed to determine the viability of the placement of the mast and to archaeological sensitivity of the three proposed sites. The three proposed locations for location for the mast in order to protect the cultural resources of the study areas as The aim was further to advise the client on the best location or alternative phase archaeological investigation was performed to. determine

3. Fieldwork

professional archaeologists 2000 in Wakkerstroom, Mpumalanga. Members of Archaeo-Info met with Mr. T. Kotze, the survey of the three After initial reconnaissance of the three Kotze of Tekplan on Saturday May study areas was performed by

4. Geographical / Environmental Setting

27° 21' 38" S, 30° 09' 06" E 27° 21' 46" S, 30° 09' 02" E and Site 2 at 27° 21' 44" S, 30° 09' 04" E south-eastern fringes of the town of Wakkerstroom, Mpumalanga (1:50000 map 2730 Voortrekkerkop within a sponge area with intermittent marches. Site 1 is situated proposed mast will be situated on one of three proposed sites situated on the These sites are situated on the western, lower slopes of and Site 3 Ossewa-

5. Previous Archaeological Investigations

and Sotho history on the southern highveld were consulted beforehand Maggs such as Iron Age Communities in the Southern Highveld and Iron age patterns connected to the Zulu war and the Anglo-Boer wars of the late 19th South-eastern Transvaal. Historians have focussed their attention on sites and events Numerous historical studies have been performed in the former Northern Natal and century. According to Mr. Chris Smit (a long time resident and previous town proposed development sites. Relevant archaeological publications by T.M.O'C Wakkerstroom, no previous archaeological investigations century and early were

6. Methodology

found effort technique has proven to result in the surveyed by walking in parallel lines covering as much of the area as possible. This was divided into blocks which were subsequently surveyed by foot. The blocks The area was surveyed using standard archaeological surveying methods. The to cover a larger area to determine the extent of the archaeological evidence of the hill on different sides of each proposed site, were maximum coverage of an area. also surveyed Parts were

sites. Using standard site documentation forms as comparable medium, it enabled the surveyors Standard archaeological documentation formats were employed in the Ö evaluate the relative importance of sites found. Furthermore description

information was then plotted using a Magellan 2000 XL GPS (Cape datum) (Global Positioning System) readings of all finds and sites were taken. This

information as well as comparative collections. All sites or topography were used in identifying sites of possible archaeological importance. classified using a hierarchical system wherein sites are assessed using a scale of one probes were done at intervals to determine sub-surface occurrence of archaeological five on the basis of their importance. These categories are as follows; The such as surface finds, importance of, sites plant was growth anomalies, local information assessed by comparisons possible sites found were with published and

sites importance in terms of cultural heritage that they can not be disturbed or altered Mapungubwe Category cost. No development will be allowed in such an area. It should be noted that in this category)-----i e Sites in this category are of such great international and/or national are very rare e.9 Great Zimbabwe, Swartkrans,

of such archaeological value that any Category 2. Although these sites are not unique in terms of their culture they are Thulamela be taken after Î scale excavations decision concerning have been their undertaken destruction can 6.6

entail the excavation of certain parts of the site - e.g. - Masorini should be fully documented before they are destroyed. This documentation would دب These sites are of lesser importance than the first two categories, but

cultural material are evident. A limited number of test trenches should be occupation. Sometimes dilapidated stone walling can occur. Surface scatters of established. excavated in order that the cultural affinity and importance of the site can be Category 4. Sites in this category consist of scattered evidence of archaeological

evident. The occurrence of cultural material could for example be due to erosion. on the surface. No structures are visible and little archaeological deposits are Category 5. Areas that consist only of very loose scattering of cultural material done on such sites. Apart from the surface collection of cultural material, no further work needs be

7. Site descriptions

the site as well as a short description. following section. A G.P.S. (Global Positioning System) co-ordinate was given for The results of the survey and the description of the site will be discussed in the

7.1. Site 1

GPS 27° 21' 46" S

30° 09' 02" E

Photo 1

Description

Nothing of any archaeological interest or value was found at this site.

7.2. Site 2

GPS 27°21'44" S

30° 09′ 04″ E

Photo 2

Description

shooting range was in use from 1937 until 1972. Since 1957 no new additions or dilapidated state and overgrown with weeds and grass construction took place on the shooting range. The shooting range stand is in a very approximately 3m x 20m. According to Mr. Chris Smit of Wakkerstroom the The remains of the old military shooting range's shooting stand was found at this The shooting stand was constructed of cement and bricks and measured

7.3. Site 3

GPS 27° 21' 38" S

30° 09' 06" E

Photo 3

Description

gravity pipeline from the newly constructed reservoir higher up the slope of the hill plant and the collection system is approximately 70m x 20m when it was closed down due to rusting pipes. The area covered by the purification water purification plant was constructed in 1906 and was in operation until 1976 the valves and sluices are still found in the building. According to Mr. Chris Smit the Wakkerstroom. A single room two storied space served this function. The remains of also served as a control room for the distribution of clean water to the residents of cement building on the north with the main trickle filter running north. The building These channels collect run-off water in the holding tank from where it is transferred catchment channels running from the 5 respective fountains in the hill (photo 4) This plant consisted of a subterranean holding tank to the south with numerous to the south, of the site the remains of the old water purification plant can be found This area has been recently disturbed on its western side by the construction of a the purification plant for filtration. The filtration plant consisted of a brick and east, the site is severely eroded with deep dongas. Approximately 30 metres

Interpretations and Recommendations

the interpretation and recommendations for each site are as follows. The sites were attributed a category as described in the section on methodology and

3.1. Site 1

Category 5

necessary Nothing of any archaeological value was found. No further archaeological work is

8.2. Site 2

Category 5

disused shooting stand comm.) and is therefore older than 60 years and protected under Act 25 of 1999. the shooting range stand. The shooting stand originates from 1927 (Smit pers. South African Heritage Resource Agency if it is decided to erect the mast on top of value to justify its protection. A permit for destruction is however needed from the Archaeo-Info recommends that the mast should be erected 20m south-west from the The remains of the shooting range stand does not have significant archaeological

8.3. Site 3

Category 4

developer should however include public consultation, through the social consultant possible. The proposed site next to the old reservoir should however not intrude on The purification plant holds historic value for the area and should be preserved if This safety area of 20 metres will include the collection trenches to the west of the area. from the structures themselves

indicate where access roads can be placed as well as the safety zone around the construction site should also adhere to the 20 metre safety zone. Should this site be close purification works chosen for development it is recommended that an archaeologist be on site to for the project, to determine the community's opinion on the placement of the mast to a historical building. The construction of any access roads to the

9. Conclusion

mitigation is necessary for the project significant archaeological value and provided the recommendations are followed no The proposed sites for the placement of the mast does not contain any sites 9