PRELIMINARY ARCHAEOLOGICAL IMPACT ASSESSMENT

For the Pietersburg Regional Waste Water Purification Works

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PRELIMINARY ARCHAEOLOGICAL IMPACT ASSESSMENT FOR THE PIETERSBURG REGIONAL WASTE WATER **PURIFICATION WORKS**

Introduction

Pilgrimshoop 630 LS and Doornbult 624 LS, north of Pietersburg in the Pietersburg Regional Waste Water Purification Works was performed by A Preliminary Archaeological Impact Assessment (P.A.I.A.) for the proposed Northern Province. Three proposed pipeline routes and a proposed site for the Archaeo-Info Northern Province (AINP) on the farms Doornkraal 680 LS, of the study area Resources Act) and comprised the evaluation of the archaeological sensitivity with the newly approved and operational Act 25 of 1999 (National Heritage Treatment Works were surveyed. The P.A.I.A. was conducted in accordance

2. Aim

were surveyed to determine the archaeological potential of each of these sites archaeological point of view. The three pipeline routes and Treatments Works the placement Works were surveyed and investigated in an effort to ascertain the viability of The three proposed pipeline routes and the proposed site for the Treatment advise the client on the best option for the placement of the pipelines and the identification and plotting of graves on the proposed pipeline routes and inside Treatment Works from an archaeological viewpoint. The aim of the study was to provide detailed archaeological information and to the proposed Treatment Works site Ħ. the of Northern Province the pipelines and special attention the Treatment Was Works As with previous given

Fieldwork

Members of Archaeo-Info Northern Province met with Mr. Developlan in Pietersburg on June 30, 2000 for orientation at his offices. Embankment Pipeline, the Eastern Embankment Pipeline and the Bloedrivier After the orientation Mr. Kotzé pointed out the proposed routes from where was completed the same day. as well as the Treatment Works site were investigated. commenced. Three pipeline routes namely Theo Kotzé the The survey

4. Geographical/Environment Setting

630 LS and Doornbult 624 LS north of Pietersburg. Pipeline will be situated on the eastern side of the Sandrivier running Sandrivier running south to north up to the confluence of the Bloedrivier and The Western Embankment Pipeline will be situated on the western side of the south to north up to the proposed Treatment Works site on the farm Doornbult. confluence of the Bloedrivier and Sandrivier where it will join up with the Eastern Embankment Pipeline study areas are situated on the farms Doornkraal 680 LS on the southern side of the Bloedrivier running west to east up to the Eastern At the confluence the Western Embankment Pipeline will join up Embankment Pipeline The Bloedrivier Pipeline will The Eastern Embankment Pilgrimshoop

pipeline routers were not affected by previous agricultural activities intensively cultivated. Sandrivier were debushed Dense riverine and forest is present on the banks of the two rivers. and cleared in order to be cultivated. Bloedrivier Only a few small stretches along the three proposed were previously and are Large areas along the still presently

Methodology

The proposed areas were surveyed using routes and site were covered by foot and standard archaeological by vehicle

and the investigators were on the lookout for surface finds, plant growth anomalies and other indicators for archaeological evidence. the description of sites. archaeological material. Bloedrivier and higher lying ground to determine sub-surface occurrence of Magellan 2000 XL GPS (WGS finds and sites were taken. sites found. medium, it enabled the surveyors to evaluate the relative importance of the artefacts, if any were found, were photographically documented (100 ASA colour prints, Ricoh KR10 SLR). at intervals in areas such as the confluence of the Sandrivier Furthermore, GPS (Global Positioning System) readings of all Using standard documentation forms as comparable Standard archaeological formats This information was then plotted using 84 co-ordinate system). were All archaeological Test probes were employed in

found information as well as comparative collections. using a scale of one to five on the basis of their importance. are as follows importance of were classified using a hierarchical system wherein sites were assessed sites was assessed by comparison with published All sites or possible sites These categories

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

are of such archaeological value that any decision concerning their destruction can only be taken after full scale excavations have been undertaken -Thulamela Although these sites are not unique in terms of their culture, they

documentation would entail the excavation of certain parts of the site Category Masorini should دب These sites are of lesser importance than the first two categories Эd fully documented before they are destroyed (P)

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

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

construction. It is important that any archaeological sites should be monitored during

encountered during construction is the exposure of unmarked graves Category 6 Graves. The only archaeological aspect that could still be

embarrassing situations for the developer It should be noted that graves are subjects of great sensitivity and should be treated as such. Prompt and correct procedures will eliminate possible

6. Site Descriptions

reference code which consisted of an abbreviation of the pipeline or site (i.e. will be discussed in the following section. The results of the survey and the description of the sites or finds of each area ordinate was given for each site as well as a short description Western Embankment Pipeline - WEP) and a numerical indicator. The sites were attributed a A GPS co-

6.1 Area 1 Site description

Site name: Western Embankment Pipeline

Site Size: $\pm 6 \text{ km} (40 \text{ metre reserve})$

Farm: Doornkraal 680 LS

Surveying points: R23 – R28

6.1.1 WEP 001

G.P.S. 23° 51' 55' S

29° 26" 04" E

Surveying point: R23 - R24

Description:

Dendron was found to be within the given reserve to be surveyed. The monument The Doornkraal Monument inside a small camping site alongside the R521 to the location of the monument in the report. situated outside the small camping site, they felt it was still necessary to mention was erected to commemorate the Groot Trek and was unveiled on 16 December Although it was indicated to the investigators that the pipeline will be

6.1.2 WEP 002

.P.S. 23° 51' 27" S

29° 26' 02" E

Surveying point: R25 - R26

Description:

which could assist with the identification and explanation of the vitrified clay was surveyed in detail and several test probes were done to find more material, One small fragment of vitrified clay (photo 1) was found in a footpath. The area Alas, nothing was found

6.2 Area 2

Site description:

Site name: Bloedrivier Pipeline

Site size: $\pm 4 \text{ km} (40 \text{ metre reserve})$

Farm: Pilgrimshoop 630 LS

Surveying points: R28 - R30

Nothing of archaeological value was found along this proposed pipeline route

6.3 Area 3

Site description:

Site name: Eastern Embankment Pipeline

Site size: $\pm 10 \text{ km } (40 \text{ metre reserve})$

Doornkraal 680 LS, Pilgrimshoop 630 LS, Doornbult 624

S

Surveying points: R5 - R20

6.3.1 EEP 001

G.P.S. 23° 47° 57" S

29° 27' 05" E

Surveying point: R19 - R20

Description:

indications such as a gravestone or gravegoods were found to justify the presence elongated structure was orientated north-east to south-west (photo 2). A possible grave was found. surveying points R19 and R20 of a grave. This possible grave was found just outside the direct line between Stones were packed in a rectangular shape and the No other

6.4 Area 4

Site description:

Site name: Treatment Works Site

Site size:

± 120 ha

Farm: Doornbult 624 LS

Nothing of archaeological value was found on the proposed site

7. Interpretation and Recommendations

methodology and the interpretation and recommendations for the sites and The sites were attributed finds are as follows: 4 category as described in the section

7.1 Area 1

7.1.1 WEP 001

Category 3

by the development of the pipeline, Although it was pointed out that the monument would not be directly affected monument is a registered national monument and should be left alone monument should not be disturbed or altered during the construction. book . is essential to mention that the

7.1.2 WEP 002

Category 5

fragments were found on other archaeological sites in the Northern Province, The origins of the vitrified clay fragment could not be explained. which could archaeological work is necessary presence However, no further archaeological evidence could be found to indicate the of be connected to furnaces for iron reduction and smelting any archaeological iron working activities. Similar further

7.2 Area 2

No further archaeological work is recommended

7.3 Area 3

7.3.1 EEP 001

Category 6

possibility although still exists that it might be a grave and therefor should be The investigators are not totally convinced that this feature is a grave. R19 and R20 and could be avoided without any problems. or not of a grave. to avoid this grave, further investigations is necessary to confirm the existence action. This possible grave does not lie directly between surveying points This will provide information to determine any further If it is not possible

7.4 Area 4

No further archaeological work is recommended

8. Conclusion

action. each of the sites were evaluated and recommendations were given for further and Doornbult underwent detailed archaeological investigations. Four proposed sites for development on the farms Doornkraal, Pilgrimshoop Findings on

attention to the recommendations as give to WEP 001 and EEP 001 as to avoid pipelines and Treatment Works continue from an archaeological point of view. The development of the proposed pipelines and the Treatment Works can complications which could affect the planning and construction of the The developers should pay

9. References

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