Thohoyandou 0950 South Africa

PO Box 7296

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expansion of a borrow Heritage Impact Assessment for the

the expansion of a borrow pit at the the Environmental Impact Assessment for Northern Province Messina Platinum Mine -Evaluation of the heritage component of -Lebowagomo,

TABLE OF CONTENTS

EXECUTIVE SUMMARY
INTRODUCTION4
LOCATION4
FIELDWORK4
METHODOLOGY4
CULTURAL IMPORTANCE AND ORAL HISTORY5
THE SITES6
MPM 001 6
RECOMMENDATIONS6
MPM 001
CONCLUSION
REFERENCES

ADDENDUM A......PHOTOGRAPHS
ADDENDUM B.....LOCATION MAP
ADDENDUM C.....SECOND PHASE COST ESTIMATE

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Messina Platinum Mine Borrow Pit Extension

Evaluation of the Heritage Potential of the Project

Executive Summary

Site name and location: Messina Platinum Mine, borrow pit extension, Limpopo Province

Magisterial district: Lebowagomo

Developer: Southern Era

Consultant: AINP, PO Box 7296, Thohoyandou, 0950, South Africa

Date development was mooted: March, 2002

Date of Report: 25 March 2002

Proposed date of commencement of development: End of March 2002

Findings: Provided th of the road can continue. Provided the recommendations outlined in the report are followed the upgrading

Introduction

borrow pit at the Messina Platinum Mine in Lebowagomo in the Limpopo province. conduct a Heritage Impact Assessment (HIA) on the proposed expansion of an existing Archaeo-Info Northern Province (AINP) was contracted by Tekplan Environmental to

This HIA forms part of the Environmental Impact Assessment (EIA) as required by the Environmental Conservation Act (ECA) 73 of 1989, the Minerals Act, 50 of 1991 and the Development Facilitation Act (DFA), 67 of 1995. The HIA is performed in accordance with section 38 of the National Heritage Resources Act (NHRA), 25 of 1999 and is intended for submission to the South African Heritage Resources Agency (SAHRA).

Location

Province. The expansion of the borrow pit will be to the west of the existing borrow pit. Mine in Lebowagomo approximately 35 km southeast of Polokwane in the Limpopo The existing borrow pit is situated to the south of the office complex at the Messina Platinum

The exact placement of the borrow pit can be found on fig 1. (orientation map)

Fieldwork

a professional archaeologist assisted by a fieldworker performed the survey. Members of AINP met with Mr. Theo Kotze on Friday 22 March 2002 on site. Following this

secondary activities during the excavation of the borrow pit. Sites were plotted with GPS readings and photographed using colour prints in 100 ASA format. All areas were surveyed The extent of the site was determined as well as the extent of the areas to be affected by

Methodology

The area was surveyed using standard archaeological surveying methods. The area was surveyed using directional parameters supplied by the GPS and surveyed by foot because of the inaccessibility of the area due to the undulating terrain. This technique has proven to result in the maximum coverage of an area.

Standard archaeological documentation formats were employed in the description of sites. Using standard site documentation forms as comparable medium, it enabled the surveyors to evaluate the relative importance of sites found. Furthermore GPS (Global Positioning System) readings of all finds and sites were taken. This information was then plotted using a Magellan 2000 XL GPS (Cape datum)

sites was assessed by comparisons with published information as well as comparative Indicators such as surface finds, plant growth anomalies, local information and topography were used in identifying sites of possible archaeological importance. Test probes were done at collections. All sites or possible sites found were classified using a hierarchical system intervals to determine sub-surface occurrence of archaeological material. The importance of

wherein sites are assessed using a scale of zero to four according their importance. These categories are as follows;

Intrusive Damaging to the item's heritage significance.	Little Alterations detract from significance One of many. Alterations detract from significance.	Moderate Significance Significance Altered or modified elements. Element with little heritage value, but which contribute to the overall significance.	significance original fabric. Demonstrates a key element of item's significance. Alterations do not detract from significance.	
0		3, 2	3	4

Cultural Importance and Oral History

sensitive to the local communities. graves, places of power or initiation schools and any other area that is seen as culturally The investigation of site for heritage components should not only look at the material remains that are found on sites, but there should also be looked at the intangible aspects of cultural importance for the local communities. Furthermore there should also be looked at the possibility of culturally important areas being found in the study area. These could include

During the social consultation phase of the project members of the local authority will be given the opportunity to raise any objection to the development based on the effect of the development on culturally important areas.

significant sites A preliminary desk study of the area did not indicate any previously documented culturally

The Sites

(Messina Platinum Mine) MPM and a numerical indicator. per the section on methodology. Sites will be listed using an abbreviation of the project name All sites of cultural or historical importance in the study area were identified and classified as

The following sites were identified in the study area.

MPM 001

ore 1

G.P.S. 22° 21' 45,5" S

29° 26' 19.7 "E

sisal growth found on the site (photo 2). The remains of an ash midden was also identified sites correlate in building and settlement patterns with those found in earlier studies in the within the occupational area (photo 3). area. In every previous case the relatives of the inhabitants could be traced back to one of the 50 years ago when the inhabitants were moved to formal townships further to the north. These indicated area. The remains are relatively young and probably do not date from further than People previously inhabited this area. Several foundation remains (photo 1) were found in the local villages surrounding the mine. The sites could be easily identified by the stretches of

MPM 002

Score 2

G.P.S. 24°21'46,1"S

29° 26′ 13 ″ E

Two graves of the *Matabane* family was identified to the southeast of the existing borrow pit (photo 4). These graves date from 1986 and it is very possible that the relatives are still present in this area. A stone caim to the east of the graves could also indicate a further grave.

Recommendations

The following recommendations are given for the sites identified within the study areas

MPM 001

estimate for this work is included in addendum C). direction this site would have to be documented to the satisfaction of SAHRA (a general cost extend the borrow area into this section. If it is however not feasible to extend in a alternative this area that are not well marked on the surface. It is suggested as a primary option to not occurrence of occupational remains also heightens the possibility of graves being located in inhabited this area. For this reason it falls under the protection of national legislation. The scientific resource. The area will however have intrinsic value for the people who previously The occupational site identified in this area does not constitute a significant cultural or

MPM 002

Two options present themselves in this scenario;

- fencing of the area should also not inhibit the access to the grave. metres of undisturbed ground between it and the perimeter of the borrow area. The To move the location of the quarry area to go around the grave with at least 20
- and relocated (AINP can facilitate this) and the borrow area is placed in the original The grave is removed through a process of social consultation with the community

eventual erosion will endanger them. If possible the relatives should be found an the graves It is further recommended that the quarry do not extend any further towards the graves, as fenced off to prevent future possible damage.

Conclusion

direction, as indicated on the location map. heritage resources in this area. It is recommended that the borrow pit be extended in this The expansion of the borrow pits to the west is seen as the option with the least impact on the

References

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LOCALITY MAP



TEKPLAN
Enwironmental