

Nsovo Environmental Consulting

**Archaeological and Heritage Impact Assessment Report for Proposed establishment of Tau Gas
Plant and its associated Infrastructure in Komatipoort, Nkomazi Local Municipality in the
Mpumalanga Province, South Africa**

October 2020

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REPORT DETAILS

PROJECT NAME: Proposed establishment of Tau Gas-station in Komatipoort, Mpumalanga Province.

REPORT TITLE: Archaeological and Heritage Impact Assessment Report for Proposed establishment of Tau Gas station and its associated infrastructure to feed Eskom Komatipoort Power-Station within Nkomazi Local Municipality in the Mpumalanga Province.

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PROFESSIONAL SERVICE PROVIDER (PSP) MULAIFA DEVELOPMENT PROJECTS CC

Report

Archaeological and Heritage Impact Assessment Study (A/HIA) for proposed establishment of Tau Gas Plant and its associated infrastructure in the Komatipoort Town of Nkomazi Local Municipality, Mpumalanga Province, SA.

Caveat

Mr M Mabuda of Mulaifa Development Projects has prepared this HIA Report, for Nsovo Environmental Consulting for the expressed purpose of fulfilling the requirements of the National Heritage Resources Act, Act 25 of 1999 and SAHRA regulations in terms of Sec. 38 of the Act.

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Geographic Co-ordinate Information: Geographic co-ordinates in this report were obtained using a hand-held Garmin Global Positioning System device. The manufacturer states that these devices are accurate to within +/- 5 m.

Maps: Nsovo Environmental Consulting provided Maps included in this report.

Disclaimer: The Author is not responsible for omissions and inconsistencies that may result from information not available at the time this report was prepared.

This Archaeological and Heritage Impact Assessment Study was carried out within the context of tangible and intangible cultural heritage resources as defined by the SAHRA Regulations and Guidelines for the authorization for proposed establishment of Tau Gas plant and its associated infrastructure.

Signed by:

M Mabuda, October 2020.

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EXECUTIVE SUMMARY

Background

DNG Energy (PTY) Ltd appointed Nsovo Environmental Consulting (Nsovo) to conduct an Environmental Impact Assessment (EIA) study for the proposed establishment of Tau gas plant and its associated infrastructure. In turn, Nsovo commissioned Mulaifa Development Projects to conduct a Phase 1 Archaeological and Heritage Impact Assessment (AIA/HIA) Study for the proposed Gas development project within the Komatipoort town in Nkomazi Local Municipality of Mpumalanga Province. The purpose of the study was to provide AIA/HIA professional opinion to the applicant (DNG) in relation to possible impacts associated to the proposed development in the study area.

Method Statement

The findings of this report have been informed by desktop data review, field survey and impact assessment reporting which include recommendations to guide heritage authorities in making decisions with regards to the proposed project. This study was conducted as part of the specialist input to the Environmental Impact Assessment conducted by Nsovo. The study and this report, follow the South African Heritage Resources Agency (SAHRA) and Mpumalanga Provincial Heritage Resources Authority (MPHRA) Guidelines for Phase one (1) AIA/HIA.

Nature of Proposed Development

This study is part of an EIA triggered by proposed development of Tau Gas station and its associated Infrastructure to feed to Eskom Komatipoort Substation. DNG Energy intends to build a new gas station which will connect to Rompco Compressor station pipeline. The proposed project site is located within a heavily degraded and built up area by means of sugarcane agricultural activities and internal streets.

Project Area

The proposed development is situated in the Komatipoort township area within the Nkomazi Local Municipality in the Mpumalanga Province. The entire project area is surrounded by Eskom transmission and distribution powerline from Komatipoort Substation, existing gas pipeline, sugarcane agricultural activities, internal streets and railway line.

The Heritage Impact Assessment Process

This HIA study report is segmented into sections as follows:

1. Executive Summary,
2. Project Background,
3. HIA on the Project Receiving Cultural Landscape project area in line with the NHRA (*Act 25 Section 38*), and
4. Heritage Management Recommendations for immediate project receiving area covering the development, operation to closure phases of the project.

The impact assessment study also includes detailed recommendations on how to mitigate and manage potential negative impacts of the proposed development while enhancing positive effects on the project area.

The Legal Framework and Guidelines

This HIA study is a specialist study to the EIA process and it is guided by the:

- National Heritage Resources Act, (*Section 38 of Act 25 of 1999*).
- SAHRA AMP HIA Guideline.
- Terms of Reference provided.

All South African heritage assets are protected by the National Heritage Resources Act (NHRA 25 of 1999), which makes it an offence to destroy heritage resources without permission from the relevant authority. In terms of the provisions of the NHRA Act of 1999, individual sites within the project area enjoy the varying levels of protection.

Results of the Study

Analysis of the archaeological, cultural heritage, environmental and historic contexts of the study area predicted that archaeological sites (Stone Age and Historic Archaeological), cultural heritage sites, burial grounds or isolated artifacts are unlikely to be present on the affected landscape. The field survey was conducted to test this hypothesis and verify this prediction within the proposed gas

station and gas pipeline project and its associated infrastructure site. The project receiving area is situated on previously disturbed land parcels. As such, the proposed development will be an in situ development that will be contained within existing developments in the periphery of the site of interest. Intangible impacts to the sense of a place within the project's receiving environment was assessed and deemed to be limited given the level of existing built-up areas in the project footprint area.

Recommendations

The project footprint area was assessed and rated as having low to medium cultural heritage significance. The following recommendations are made in this report:

- The project area has considerable existing built-up areas and as such no significant impacts are anticipated on the built environment given the existence of contemporary built-infrastructure or structures already in the project area.
- Low visibility emanating from the proposed project development is anticipated, particularly during the post-construction phase. Furthermore, the project area is characterized by Agricultural land with contemporary infrastructures in place like Komatipoort Eskom sub-station, which will absorb the proposed developments in situ once the project becomes operational. Therefore the visual impacts of the proposed development are considered to be very low across the receiving contemporary cultural landscape.
- Overall impacts to heritage resources are not considered to be adverse to warrant abandonment of the proposed project. It is thus concluded that the project must be cleared to proceed as planned subject to the Heritage Authority ensuring that a detailed heritage monitoring procedures are included in the project EMP, for the construction phase. These should include chance archaeological finds mitigation procedure in the project EMP, specifically to cover subsurface construction activities.
 - The chance finds process will be implemented when necessary, especially when archaeological materials and burials are encountered during subsurface construction activities.
 - If archaeological materials are uncovered, work should cease immediately and the Mpumalanga Provincial Heritage Resource Authority (MPHRA) or SAHRA be notified and activity should not resume until appropriate management provisions are in place.

- In the event that previously unknown human remains are accidentally uncovered during development, then work on affected section and the immediate vicinity should be halted and the finds protected and reported to SAHRA.
- The findings of this report, with approval of the MPHRA, may be classified as acceptable to any Interested and Affected Parties within the limits of the laws.
- It is further recommended that, from both heritage and economic considerations, the proposed development should be approved.

ABBREVIATIONS

AIA	Archaeological Impact Assessment
BID	Background Information Document
C	Contractor
CARA	Conservation of Agricultural Resources Act, 1983 (Act No 43)
CECO	Construction Environmental Conservation Officer
DAFF	Department of Agriculture, Forestry and Fisheries
DEA	Department of Environmental Affairs
DSR	Draft Scoping Report
DWA	Department of Water Affairs
EAP	Environmental Assessment Practitioner
ECA	Environmental Conservation Act
ECO	Environmental Conservation Officer
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report
EM	Environmental Manager
EMP	Environmental Management Plan
EMPr	Environmental Management Programme
EMPR	Environmental Management Programme Report
EMS	Environmental Management System
FC	Farming Community
GN	General Notice
GNR	General Notice Regulation
Ha	Hectares
HIA	Heritage Impact Assessment
HMP	Heritage Management Plan
I&AP's	Interested and Affected Parties
IDP	Integrated Development Plan
IRR	Issues and Responses Report
LIA	Late Iron Age
LFC	Late Farming Community
LSA	Late Stone Age
MIA	Middle Iron Age
MSA	Middle Stone Age
NEMA	National Environmental Management Act 107 of 1998
NEMAQA	National Environmental Management: Air Quality Act 39 of 2004

NEMPAA	National Environmental Management Protected Areas Act
NEMWA	National Environmental Management: Waste Act 59 of 2008
NGO	Non-Government Organisation
NHRA	Nation Heritage Resources Act, Act 25 of 1999
PM	Project Manager
SAHRA	South African Heritage Resources Agency
SM	Site Manager
ToR	Terms of Reference

DEFINITIONS

The following terms used in this Archaeological /Heritage Impact Assessment are defined in the National Heritage Resources Act [NHRA], Act Nr. 25 of 1999, South African Heritage Resources Agency [SAHRA] Policies as well as the Australia ICOMOS Charter (*Burra Charter*):

Archaeological Material remains resulting from human activities, which are in a state of disuse and are in, or on, land and which are older than 100 years, including artifacts, human and hominid remains, and artificial features and structures.

Chance Finds means Archaeological artefacts, features, structures or historical cultural remains such as human burials that are found accidentally in context previously not identified during cultural heritage scoping, screening and assessment studies. Such finds are usually found during earth moving activities such as water pipeline trench excavations.

Compatible use means a use, which respects the cultural significance of a place. Such a use involves no, or minimal, impact on cultural significance.

Conservation means all the processes of looking after a place so as to retain its cultural significance.

Cultural Heritage Resources Same as **Heritage Resources** as defined and used in the National Heritage Resources Act (*Act No. 25 of 1999*). Refer to physical cultural properties such as archaeological and palaeontological sites; historic and prehistoric places, buildings, structures and material remains; cultural sites such as places of ritual or religious importance and their associated materials; burial sites or graves and their associated materials; geological or natural features of cultural importance or scientific significance. **Cultural Heritage Resources** also include **intangible resources** such as religion practices, ritual ceremonies, oral histories, memories and indigenous knowledge.

Cultural significance means aesthetic, historic, scientific, social or spiritual value for past, present or future generations.

Cultural Significance also encompasses the complexities of what makes a place, materials or intangible resources of value to society or part of, customarily assessed in terms of aesthetic, historical, scientific/research and social values.

Environment The surroundings within which humans exist and that are made up of: i. the land, water and atmosphere of the earth;

- ii. micro-organisms, plant and animal life;
- iii. any part or combination of (i) and (ii) and the interrelationships among and between them; and,
- iv. the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being. This includes the economic, social, cultural, historical and political circumstances, conditions and objects that affect the existence and development of an individual, organism or group.

Environmental impact assessment An Environmental Impact Assessment (EIA) refers to the process of identifying, predicting and assessing the potential positive and negative social, economic and biophysical impacts of any proposed project, plan, programme or policy which requires authorisation of permission by law and which may significantly affect the environment. The EIA includes an evaluation of alternatives. As well as recommendations for appropriate mitigation measures for minimising or avoiding negative impacts, measures enhancing the positive aspects of the proposal and environmental management and monitoring measures.

Expansion means the modification, extension, alteration or upgrading of a facility, structure or infrastructure at which an activity takes place in such a manner that the capacity of the facility or the footprint of the activity is increased;

Fabric means all the physical material of the place including components, fixtures, contents and objects.

Grave A place of interment (*variably referred to as burial*), including the contents, headstone or other marker of such a place, and any other structure on or associated with such place. A grave may occur in isolation or in association with others where upon it is referred to as being situated in a cemetery (*contemporary*) or **Burial Ground** (*historic*).

Heritage impact assessment (HIA) refers to the process of identifying, predicting and assessing the potential positive and negative cultural, social, economic and biophysical impacts of any proposed project, plan, programme or policy which requires authorisation of permission by law and which may significantly affect the cultural and natural heritage resources. The HIA includes recommendations for appropriate mitigation measures for minimising or avoiding negative impacts, measures enhancing the positive aspects of the proposal and heritage management and monitoring measures.

Historic Material remains resulting from human activities, which are younger than 100 years, but no longer in use, including artefacts, human remains and artificial features and structures.

Impact The positive or negative effects on human well-being and / or on the environment.

In Situ material culture and surrounding deposits in their original location and context, for example an archaeological site that has not been disturbed by farming.

Interested and affected parties Individuals, communities or groups, other than the proponent or the authorities, whose interests may be positively or negatively affected by the proposal or activity and/ or who are concerned with a proposal or activity and its consequences.

Interpretation means all the ways of presenting the cultural significance of a place.

Late Iron Age this period is associated with the development of complex societies and state systems in southern Africa.

Material culture means buildings, structure, features, tools and other artefacts that constitute the remains from past societies.

Mitigate The implementation of practical measures to reduce adverse impacts or enhance beneficial impacts of an action.

Place means site, area, land, landscape, building or other work, group of buildings or other works, and may include components, contents, spaces and views.

Protected area means those protected areas contemplated in section 9 of the NEMPAA and the core area of a biosphere reserve and shall include their buffers;

Public participation process A process of involving the public in order to identify issues and concerns, and obtain feedback on options and impacts associated with a proposed project, programme or development. Public Participation Process in terms of NEMA refers to: a process in which potential interested and affected parties are given an opportunity to comment on, or raise issues relevant to specific matters

Setting means the area around a place, which may include the visual catchment.

Significance can be differentiated into impact magnitude and impact significance. Impact magnitude is the measurable change (*i.e. intensity, duration and likelihood*). Impact significance is the value placed on the change by different affected parties (*i.e. level of significance and acceptability*). It is an anthropocentric concept, which makes use of value judgments and science-based criteria (*i.e. biophysical, physical cultural, social and economic*).

Site A distinct spatial cluster of artefacts, structures, organic and environmental remains, as residues of past human activity.

Use means the functions of a place, as well as the activities and practices that may occur at the place.

1. INTRODUCTION

Nsovo Environmental Consulting (Nsovo) commissioned Mulaifa Development Projects cc led by Mr. M. Mabuda and Mr. R. Munyai to conduct an Archaeological and Heritage Impact Assessment (AIA/HIA) study of the area that will be affected by the proposed development of new Tau gas station. This report focuses on the proposed establishment of Tau gas station and its associated infrastructure to feed Komatipoort Eskom substation at Komatipoort Township, Nkomazi Local Municipality in Mpumalanga Province. This report outlines the desktop study, review of previous heritage assessment studies in the general area, field study and present results of the study as well as discussion on the anticipated impacts of the proposed development as is required by the National Heritage Resources Act, (Act 25 of 1999). The study focuses on identifying and assessing potential impacts on archaeological, as well as on other physical cultural properties including historical heritage and intangible resources in relation to the proposed development.

An accredited archaeologist and heritage management specialist, undertook the assessments, research and consultations required for the preparation of the report for the purpose of ensuring that the cultural values are taken into consideration and reported into the EIA authorisations and EMP' processes spanning the proposed life span of the proposed gas station and gas pipeline development.

The study was designed to ensure that any significant cultural, physical property or sites and related intangible heritage resources are located and recorded, and site significance is evaluated to assess the nature and extent of expected impacts from the proposed development. The assessment includes recommendations to manage the expected impact of the development site. The report includes recommendations to guide heritage authorities in making appropriate decision with regards to Heritage Management Planning.

The specialist conducted the assessment; research and consultations required for the preparation of this HIA report in a manner consistent with its obligations set in the NHRA as well as the environmental management legislations. In line with MPHRA/SAHRA guidelines, this section of the report, not necessarily in that order, provides:

- 1) Management summary
- 2) Methodology
- 3) Information with reference to the desktop study
- 4) Map and relevant geodetic images and data

- 5) GPS co-ordinates
- 6) Directions to the site
- 7) Site description and interpretation of the cultural area where the project will take place
- 8) Management details, description of affected cultural environment, photographic records of the project area
- 9) Recommendations regarding the significance of the site and recommendations regarding further monitoring of the site
- 10) Conclusion.

2. NATURE OF PROPOSED DEVELOPMENT

The study concerns the proposed establishment of a new Tau gas plant. This will include two identical plants next to each other with a foot print of 60m x 100m at a height of 25m. The associated infrastructure is inclusive of an estimated 1km pipeline which will connect from an existing Rompco gas pipeline to the power plant.

3. STATUTORY REQUIREMENTS

This HIA report addresses the requirements as stipulated in the NHRA Act 25 of 1999 Section 38 as well as EIA Terms of Reference in relation to the assessment of impacts of the proposed gas plant, pipeline and its associated infrastructure development on the cultural and heritage resources associated with the receiving environment. The statutory mandate of heritage impact assessment studies is to encourage and facilitate the protection and conservation of archaeological and cultural heritage sites, in accordance with the provisions of the National Heritage Resources Act, Act 25 of 1999 and auxiliary regulations. Therefore, in pre-development context, heritage impact assessment study is conducted to fulfil the requirements of Section 38 (1) of the National Heritage Resources Act, (No 25 of 1999).

The legislation requires that when constructing a linear development exceeding 300m in length or developing with an area exceeding 5000 m² in extent, the developer must notify the responsible heritage authority of the proposed development and they in turn must indicate within 14 days whether an impact assessment is required. The NHR Act notes, "Any comments and recommendations of the relevant heritage resources authority with regard to such development have been taken into account prior to the granting of the consent."

Both the national legislations and provincial provisions provide protection for the following categories of heritage resources:

Landscapes, cultural or natural;

- Buildings or structures older than 60 years;
- Archaeological Sites, palaeontological material and meteorites;
- Burial grounds and graves;
- Public monuments and memorials;
- Living heritage (defined as including cultural tradition, oral history, performance, ritual, popular memory, skills and techniques, indigenous knowledge systems and the holistic approach to nature, society and social relationships).

Furthermore, the proposed development is guided and governed by legislative acts and regulations including environmental, spatial planning, land use and heritage management laws and regulations. The following acts have particular relevance to the management of heritage sites wherever they are found in the Republic:

- Environmental Conservation Act, No.73 of 1989.
- National Environment Management Act (NEMA), No.107 of 1998.

4. HIA STUDY TERMS OF REFERENCE

This HIA study was commissioned under the guidance of the requirements of Section 38(3) of the NHRA. As outlined in the introduction section, the activities would include:

1. Hypothesising and Conducting a detailed desk-top level investigation to identify all archaeological, cultural and historic sites in the proposed gas plant and pipeline project receiving areas;
2. Conduct appropriate physical cultural properties field work and survey to verify results of desktop investigation;
3. During the field survey, document (*GPS coordinates and map*) all archaeological and heritage sites, objects and structures and physical cultural properties identified within the project's receiving environment;

4. Compile a Heritage Impact Assessment report which would include:
 - a. Identification of archaeological, cultural and historic sites within the affected development areas;
 - b. Assess the sensitivity and significance of archaeological remains within the affected development areas;
 - c. Estimation and evaluation of the potential impacts of the proposed construction, operation and maintenance of the proposed development on archaeological, cultural and historic sites in the proposed project receiving areas;
 - d. Measure the impacts in terms of the scale of impact
 - e. Provide appropriate Recommendation of mitigation measures that may add positive impacts while reducing the identified negative impacts on archaeological, cultural and historic sites in the proposed project receiving areas;
 - f. The recommendations should be applicable enough to effectively guide the compliance authorities in issuing a decision regarding the authorisation of the proposed development.
 - g. Consideration of relevant MPHRA and SAHRA as well and international best practices guidelines; and,
 - h. Development Heritage Management Planning guideline: "Guideline for involving heritage stakeholders in the processes".

In essence, both the national heritage and environmental legislations provide protection for the following categories of heritage resources:

- Landscapes, cultural or natural;
- Buildings or structures older than 60 years;
- Archaeological Sites, palaeontological material and meteorites;
- Burial grounds and graves;
- Public monuments and memorials;

- Living heritage (defined as including cultural tradition, oral history, performance, ritual, popular memory, skills and techniques, indigenous knowledge systems and the holistic approach to nature, society and social relationships).

5. LOCATION OF ACTIVITY AREA AND IMPACT AREA

The project area is located approximately 105 km east of Mbombela Town, along the N4 towards Mozambique border, in Komatipoort Town of Mpumalanga Province. These activities would also have impacted negatively on any visible evidence of heritage resources. Refer to the EIA report for geographical, environmental and demographic issues.

THE PROPOSED ESTABLISHMENT OF GAS TO POWER STATION AND ASSOCIATED INFRASTRUCTURE WITHIN THE JURISDICTION OF NKOMAZI LOCAL MUNICIPALITY, MPUMALANGA PROVINCE.

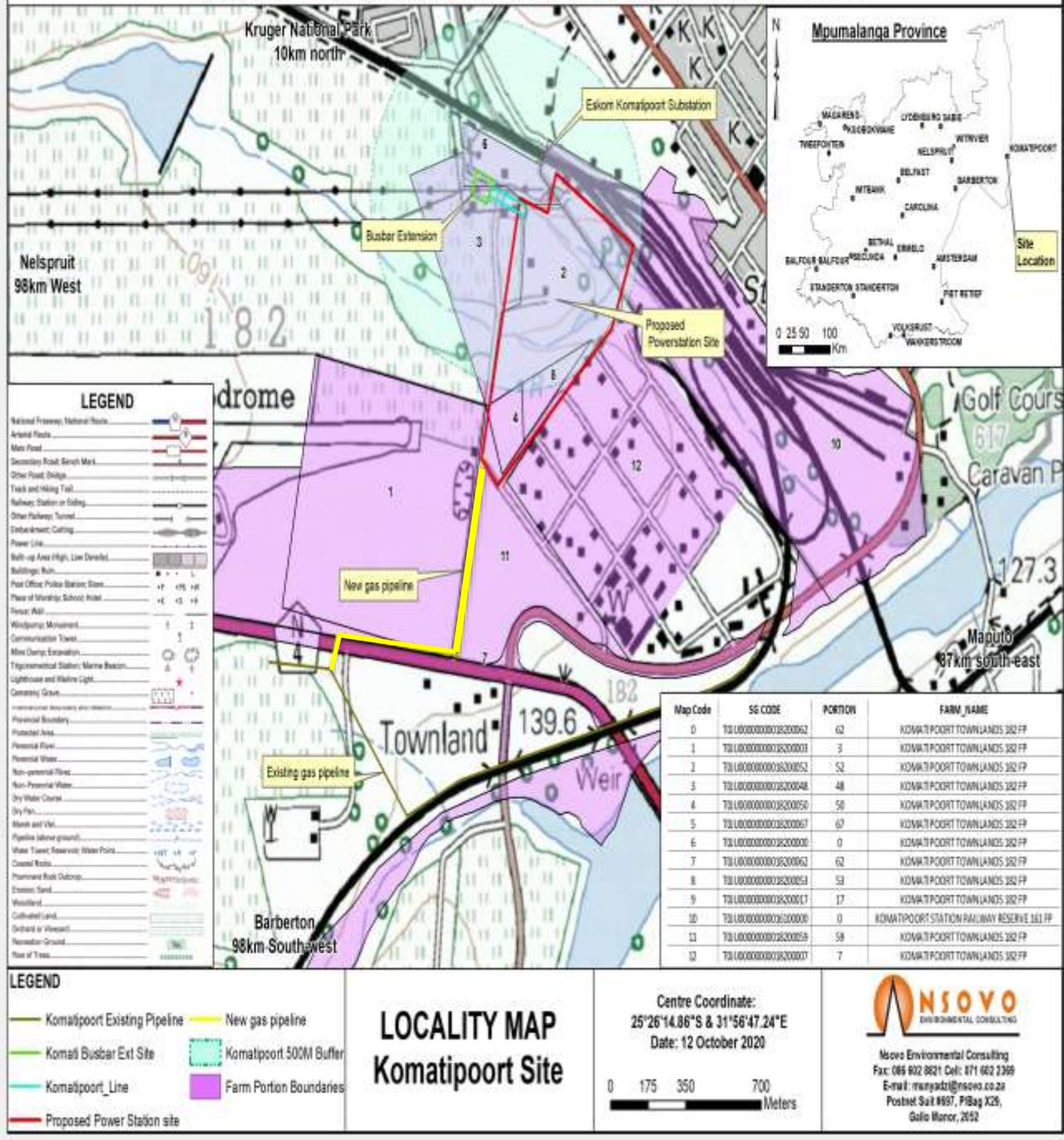


Plate 1. Project locality Map, courtesy of Nsovo Environmental Consulting, 2020

6. METHODOLOGY

The proposed project development requires clearance and authorisation from government compliance agencies including the heritage authority of MPHRA and or SAHRA. Key HIA objectives for this section of the study are to fulfil the statutory requirements of the National Heritage Resources Act, Act 25 of 1999. In order to meet the objectives of the HIA Phase 1 study, the following tasks were conducted: 1) site file search, 2) literature review, 3) consultations with key stakeholders, 4) completion of a field survey and assessment and 5) analysis of the acquired data and report production.

The following tasks were undertaken:

- Preparation of a predictive model for archaeological heritage resources in the study area.
- A review and gap analysis of archaeological, historical and cultural background information, including possible previous heritage consultant reports specific to the affected project area, the context of the study area and previous land use history as well as a site search;
- Field survey.
- Physical cultural property recording of any identified sites or cultural heritage places;
- Identification of heritage significance; and
- Preparation of HIA report with recommendation, planning constraints and opportunities associated with the proposed development.

The project area is part of an existing and previously developed and disturbed landscape with access roads servitudes; Gas pipelines, both transmission and distribution powerlines and other auxiliary infrastructures dominate the affected project area. The proposed site is most predominated by sugarcane plantation.

Geographic coordinates were obtained with a handheld Garmin GPS global positioning unit. Photographs were taken as part of the documentation process during field study.

7. Assumptions and Limitations

The field survey did not include any form of subsurface inspection beyond the inspection of burrows, road cut sections, and the sections exposed by erosion or earth moving disturbances, especially by agricultural activities. Some assumptions were made as part of the study and therefore some

limitations, uncertainties and gaps in information would apply. It should however, be noted that these do not invalidate the findings of this study in any significant way:

1. The proposed gas plant development will be limited to specific right of way sites and laydown areas as detailed in development layout.
2. The construction teams at the development and service sites will use the existing access roads and there will be no major deviations into undisturbed sections.
3. Given the extensive degraded nature on most affected project area, the area have low to medium potential to yield highly significant in situ archaeological or physical cultural properties.
4. No excavations or sampling was undertaken, since a permit from heritage authorities is required to disturb a heritage resource. As such the results herein discussed are based on surface indicators. However, these surface observations concentrated on areas accessible.
5. No Palaeontological study was conducted as part of this HIA.
6. This study did not include any ethnographic and oral interviews. The existing studies from current and historic researches are accepted as adequate for the purposes of this HIA.

8. Consultation

No oral consultation was done as part of this study. However, the EIA Public Participation Process will invite comments from affected communities and other interested parties on any matter related to the proposed development including heritage concerns that may arise as a result of the proposed development.

9. FIELDWORK RESULTS



Plate 1. Reflect the sugarcane plantation which will be affected by the proposed Tau gas plant at $S25^{\circ}26'15,54''$ $E31^{\circ}56'39,25''$



Plate 2: Photo 2 shows the point whereby the proposed new gas pipeline will connect to the existing towards the proposed plant (Author 2020). $S25^{\circ}26'28,98''$ $E31^{\circ}56'36,33''$ (T-off of Hotchkiss Street).



Plate 3: Photo 3 shows a T-off point of the proposed gas pipeline to run parallel the N₄ towards the Rompco Compressor station. (Author 2020). $S25^{\circ}26'46,8$ $E31^{\circ}56'32,56''$ (Parallel N₄).



Plate 4: Photo 4 shows the point in which the proposed gas pipeline will cross N₄ road to connect to an existing Rompco pipeline (Author 2020). $S25^{\circ}26'46'15''$ $E31^{\circ}56'17,35''$ (T-off N₄ towards Rompco compressor station).

9.1 Archaeological finds

Although some sections of the site earmarked for the gas plant development are degraded from previous and current land uses such as access road, existing Rompco gas pipeline, both Eskom transmission and distribution powerline and agricultural activities in sugar cane farming, there is no evidence suggesting any potential of recovering archaeological remains during excavation for proposed gas plant foundations and its associated infrastructure. There is an established associated infrastructure development, illegal dumping site, roads and other infrastructures across the entire project receiving area and as such, the proposed gas station establishment and its associated infrastructure development will be additional to in situ developments already on the project area. The field survey did not identify any cultural heritage resources, burial grounds or archaeological resources within the proposed area earmarked for the proposed project development.

9.2 Historical and Built Environment

In general, historic sites are associated with colonial era white settlers, colonial wars, industrialization, recent and contemporary African population settlements, and contemporary ritual sites dating to the last hundred years. However, recent historic period sites and features associated with the, African communities, settler and commercial farming communities are on record in the project area environment. Although the affected general landscape is associated with historical events such as white settler migration, colonial wars and the recent African people of the region, no listed specific historical sites are on the proposed development sites. The more common functions of places of cultural historical significance may include:
Historical building or structures older than 60 years.

9.3 Burial grounds and graves

Whether burial sites are known or not on record, from a heritage perspective, burial grounds and gravesites are accorded the highest social significance threshold (see Appendix 1). They have both historical and social significance and are considered sacred. Wherever they exist they may not be tempered with or interfered with during any proposed development. It is important to note that the possibility of encountering human remains during subsurface earth moving works anywhere on the landscape is ever present. Although the possibility of encountering previously unidentified burial sites is low along the proposed earmarked site, should such sites

be identified during subsurface construction work, they are still protected by applicable legislations and they should be protected.

9.4 Historical Monuments

There are currently no places within or in the vicinity of the proposed site that are listed on the National Heritage List.

9.5 Cultural landscapes

The project area is part of an established rural settlement with associated infrastructure. As such the entire gas plant site is part of a broader cultural landscape.

10. DISCUSSION

Literature review does not revealed the existence of archaeological sites that may occur within the general project area. As such there is no need for construction teams members to be inducted on the potential of encountering subsurface cultural heritage resources during construction. The following observations are worthy emphasizing in this discussion prior to making final recommendations:

- Limited ground surface visibility on sections of the project area that had thick vegetation cover at the time of the study may have impeded the detection of archaeological sites. This factor is exacerbated by the fact that the study was limited to general survey without necessarily conducting any detailed inspection of specific localities that will be affected by the proposed gas plant development. The absence of confirmable and significant archaeological cultural heritage sites is not evidence in itself that such in situ sites did not exist in the project area.

11. CULTURAL HERITAGE SITE ASSESSMENT OF SIGNIFICANCE

The appropriate management of cultural heritage resources is usually determined on the basis of their assessed significance as well as the likely impacts of any proposed developments. Cultural significance is defined in the Burra Charter as meaning aesthetic, historic, scientific or social value for past, present and future generations (Article 1.2). Social, religious, cultural and public significance are currently identified as baseline elements of this assessment, and it is through the combination of these elements that the overall cultural heritage values of the site of interest, associated place or area are resolved. Not all sites are equally significant and not all are worthy of

equal consideration and management. The significance of a place is not fixed for all time, and what is considered of significance at the time of assessment may change as similar items are located, more research is undertaken and community values change.

The above observation does not lessen the value of the heritage approach, but enriches both the process and the long-term outcomes for future generations as the nature of what is conserved and why, also changes over time (Pearson and Sullivan 1995:7).

African indigenous cultural heritage significance is not limited to items, places or landscapes associated with pre-European contact. Indigenous cultural heritage significance is understood to encompass more than ancient archaeological sites and deposits, broad landscapes and environments. It also refers to sacred places and story sites, as well as historic sites, including mission sites, memorials, and contact sites. This can also refer to modern sites with particular resonance to the indigenous community. The site of interest considered in this project falls within this realm of broad significance.

12. Assessment Criteria

The SAHRA Guidelines and the Burra Charter define the following criterion for the assessment of cultural significance:

12.1 Aesthetic Value

Aesthetic value includes aspects of sensory perception for which criteria can and should be stated. Such criteria may include consideration of the form, scale, colour, texture and material of the fabric; sense of place, the smells and sounds associated with the place and its use.

12.2 Historic Value

Historic value encompasses the history of aesthetics, science and society, and therefore to a large extent underlies all of the terms set out in this section. The overall Mpumalanga Province region as a place has historic value because it has influenced, or has been influenced by, an historic figure, event, phase or activity. It may also have historic value as the site of an important event. For any given place the significance will be greater where evidence of the association or event survives in situ, or where the settings are substantially intact, than where it has been changed or evidence does not survive. However, some events or associations may be so important that the place retains significance regardless of subsequent treatment.

12.3 Scientific value

The scientific or research value of a place will depend upon the importance of the data involved, on its rarity, quality or representativeness, and on the degree to which the place may contribute further substantial information. Scientific value is also enshrined in natural resources that have significant social value. For example, pockets of forests and bushvelds have high ethnobotany value.

12.4 Social Value

Social value embraces the qualities for which a place has become a focus of spiritual, religious, political, local, national or other cultural sentiment to a majority or minority group. Social value also extend to natural resources such as bushes, trees and herbs that are collected and harvested from nature for herbal and medicinal purposes.

12.5 Evaluation of Heritage Resource

Based on the information from the SAHRA standards of best practice and minimum standards, data capture forms were used to collect information from the field through site condition surveys and observations. After data was gathered from the field, it was combined with information from other sources deemed essential to establish the value and significance of individual sites as well as to identify any threats to the heritage. The NHRA (Act 25 of 1999) grading scale was used to assess significance.

Table 1: Significance assessment of heritage resources based on ICOMOS and NHRA criteria.

ICOMOS Ranking	South African Legislation (National Heritage Resources Act Ranking)
• Very high (World Heritage Sites)	National Heritage Sites (Grade 1)
• High (Nationally significant sites)	National Heritage Sites (Grade 1), Grade 2 (Provincial Heritage Sites), burials
• Medium (regionally significant sites)	Grade 3a
• Low (locally significant sites)	Grade 3b
• Negligible	Grade 3c
• Unknown	Grade 3a

13. STATEMENT OF SIGNIFICANCE

13.1 Aesthetic Value

The visual and physical relationship between HIA study area and the surrounding cultural Landscape demonstrates the connection of place to the local and oral historical stories of the African communities who populated this region going back into prehistory.

Table 2: Assessment of impacts to Aesthetic Values related to the scenic routes and sense of place

	Before Mitigation	After Mitigation
Magnitude	Low	NA
Extent Local -	Local	NA
Duration Long term -	Long term	NA
Significance	Low -	NA
Probability	Definite -	NA
Status	Negative -	NA

13.2 Historic Value

Although the entire project area is comprised of various infrastructure development, no historical aspect of cultural significance were recorded on the direct path of powerline servitude or substation

footprint, however, such history goes back to the pre-colonial period, through the colonial era, the colonial wars and subsequent colonial rule up to modern day.

Table 3: Assessment of impacts to Historic Values related to the project area.

	Before Mitigation	After Mitigation
Magnitude	Low	Low
Extent Local -	Specific Site	Specific Site
Duration Long term	Long term	Long term
Significance	Low -	Low -
Probability	Definite -	Probable
Status	Negative -	Negative -
Cumulative	No historic sites may be affected by this development.	

13.3 Scientific value

Previous construction activities and associated roads, and other auxiliary infrastructure developments and disturbance within the HIA study area associated with the proposed substation development have resulted in limited intact significant cultural landscapes with the potential to retain intact large scale or highly significant open archaeological site deposits. However, should intact archaeological sites be recorded within the proposed substation site and immediate surrounding areas, they may retain scientific evidence that may add value to the local and regional history.

Table 4: Assessment of impacts to Archaeological Scientific Values related to the project area.

	Before Mitigation	After Mitigation
Magnitude		
	Low	NA
Extent Local -		
	Specific Site	NA
Duration Long term -		
	Long term	NA
Significance		
	Low -	NA
Probability		
	Definite -	NA

Status

Negative -

NA

Reversible

Yes (with rehabilitation after plant is decommissioned)

NA

Cumulative

There are no archaeological resources falling within the project area. Given the destructive nature of the proposed project area, there is no cumulative impacts that are of concern on this site. Monitoring may not be necessary during construction phase of the development.

13.4 Social Value

Under normal circumstances, any site possesses some certain status of social significance at a particular time in a society. The overall area has social value for the local community, as is the case with any populated landscape. The land provides the canvas upon which daily socio-cultural activities are created. All these factors put together confirm the social significance of the project area. However, this social significance is not going to be adversely impacted by the proposed Tau gas plant and pipeline development especially given the fact that the development will add value to the human settlements and activities already taking place. In addition the area is already affected by development and this project is an addition to already existing infrastructure such as roads, and other infrastructure developments.

14. RECOMMENDATIONS

1. From a heritage perspective supported by the findings of this study, the proposed gas plant and its associated pipeline development is feasible. However, the proposed development should be approved to proceed as planned under observation that the plant dimension do not extend beyond the proposed site. The foot print impact of the proposed gas plant development and associated infrastructure should be kept to minimal to limit the possibility of encountering chance finds.
2. There are no burial site or graves identified during the field investigation of gas pipeline corridor and gas plant development earmarked site. However, should graves and burial sites are discovered during the cause of construction activities, all construction activities should cease and site must be barricaded and SAHRA/MPHRA or the professional archaeologist must be informed.

3. Should any unmarked burials are exposed during construction affected families must be trekked and consulted, relevant rescue/ relocation permits must be obtained from SAHRA/MPHRA before any grave relocation can take place. Furthermore a professional archaeologist must be retained to oversee the relocation process in accordance with the National Heritage Resources Act 25 of 1999.
4. When the removal of topsoil and subsoil on the site earmarked development sites commences, caution must be exercised.
5. Should chance archaeological materials or human burials remains be exposed during subsurface, construction work on any section of the gas plant development laydown sites, work should cease on the affected area and the discovery must be reported to the heritage authorities immediately so that an investigation and evaluation of the finds can be made. The overriding objective, where remedial action is warranted, is to minimize disruption in construction scheduling while recovering archaeological and any affected cultural heritage data as stipulated by the PHRA and NHRA regulations.
6. Subject to the recommendations herein made and the implementation of the mitigation measures and adoption of the project EMP, there are no significant cultural heritage resources barriers to the proposed Tau gas plant and its associated infrastructure development. The Heritage authority may approve the proposed development to proceed as planned with special implementing the recommendations here in made.

15. Management & Policy Recommendations

15.1 Community Advisory

Should community consultations being held through the project EIA PPP refer to any cultural issues associated with the project area, such matters should be addressed adequately. The proposed developmental project is associated with existing communities in the landscape and their heritage or cultural aspirations that may potentially be affected by the development should be acknowledged in the event that they are identified during the course of the implementation of the proposed development. To date, the PPP consultation process has not identified cultural heritage contestation to the project.

15.2 Public Participation

The Project Public Participation Process should ensure that any cultural heritage related matter for this project is given due attention whenever it arises and is communicated to MPHRA throughout the proposed project development. This form of extended community involvement would pre-empt any potential disruptions that may arise from previously unknown cultural heritage matter that may have escaped the attention of this study.

15.3 Interpretation & Active Management Recommendations

In most cases, the local communities have a long and significant connection with project area. Like any other generational society, there are several other cultural activities that take place within the affected settlement areas associated with the particular site.

16. Recommendation

Although the possibility of conflict between the community and the proposed development related to cultural heritage is unlikely, MPHRA should acknowledge on behalf of the community, that the project area is situated in a culturally significant landscape associated with local history and cultural activities. MPHRA may also acknowledge that such significance is not tied to physical sites or archaeological sites only, but to intangible heritage such as popular memories, oral history, ancestral remembrance, religious rituals, aesthetic appreciations, living experiences and folklores. As such, the community retains the right to have their constitutionally guaranteed cultural heritage rights respected and protected without being limited to existence of physical evidence such as archaeological sites. Should such issues arise in association with this proposed development, they will have to be adequately addressed by MPHRA and community.

16. CONCLUDING REMARKS

The literature review, field research and subsequent impact assessment confirmed that the project area is situated within a historical and contemporary cultural landscape dotted with settlements that have long local history. Field survey was conducted during which it was established that the entire project site is degraded by existing and previous land use activities and developments. This report concludes that the proposed Tau gas plant and its estimated 1km gas pipeline development be approved by Heritage Authority to proceed as planned subject conditional inclusion of heritage monitoring measures in the project EMP (also see Appendices) and chance finds procedures for the construction phase.

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APPENDIX 1: HUMAN REMAINS AND BURIALS IN DEVELOPMENT CONTEXT

Developers, land use planners and professional specialist service providers often encounter difficult situations with regards to burial grounds, cemeteries and graves that may be encountered in development contexts. This may be before or during a development project. There are different procedures that need to be followed when a development is considered on an area that will impact upon or destroy existing burial grounds, cemeteries or individual graves. In contexts where human remains are accidentally found during development work such as road construction or building construction, there are different sets of intervention regulations that should be instigated. This brief

is an attempt to highlight the relevant regulations with emphasis on procedures to be followed when burial grounds, cemeteries and graves are found in development planning and development work contexts. The applicable regulations operate within the national heritage and local government legislations and ordinances passed in this regard. These guidelines assist you to follow the legal pathway.

1. First, establish the context of the burial:

- A. Are the remains less than 60 years old? If so, they may be subject to provisions of the Human Tissue Act, Cemeteries Ordinance(s) and to local, regional, or municipal regulations, which vary from place to place. The finding of such remains must be reported to the police but are not automatically protected by the National Heritage Resources Act (Act 25 of 1999).
- B. Is this the grave of a victim of conflict? If so, it is protected by the National Heritage Resources Act (Section 36(3a)). (Relevant extracts from the Act and Regulations are included below).
- C. Is it a grave or burial ground older than 60 years which is situated outside a formal substation administered by a local authority? If so, it is protected by the National Heritage Resources Act (Section 36(3b)).
- D. Are the human or hominid remains older than 100 years? If so, they are protected by the National Heritage Resources Act (Section 35(4), see also definition of "archaeological" in Section 2).

2. Second, refer to the terms of the National Heritage Resources Act most appropriate to the situation, or to other Acts and Ordinances:

- A. Human remains that are NOT protected in terms of the National Heritage Resources Act (i.e. less than 60 years old and not a grave of a victim of conflict or of cultural significance) are subject to provisions of the Human Tissue Act and to local and regional regulations, for example Cemeteries Ordinances applicable in different Provincial and local Authorities.
- B). All finds of human remains must be reported to the nearest police station to ascertain whether or not a crime has been committed.
- C). If there is no evidence for a crime having been committed, and if the person cannot be identified so that their relatives can be contacted, the remains may be kept in an institution where certain conditions are fulfilled. These conditions are laid down in the Human Tissue Act (Act No. 65 of 1983). In contexts where the local traditional authorities given their consent to the unknown

remains to be re-buried in their area, such re-interment may be conducted under the same regulations as would apply for known human remains.

3. In the event that a graveyard is to be moved or developed for another purpose, it is incumbent on the local authority to publish a list of the names of all the persons buried in the graveyard if there are gravestones or simply a notification that graves in the relevant graveyard are to be disturbed. Such a list would have to be compiled from the names on the gravestones or from parish or other records. The published list would call on the relatives of the deceased to react within a certain period to claim the remains for re-interment. If the relatives do not react to the advertisement, the remains may be re-interred at the discretion of the local authority.
 - A. However, it is the responsibility of the developer to ensure that none of the affected graves within the development site are burials of victims of conflict. The applicant is also required in line with the heritage legislation to verify that the graves have no social significance to the local communities.
 - B. It is illegal in terms of the Human Tissue Act for individuals to keep human remains, even if they have a permit, and even if the material was found on their own land.
4. The Exhumations Ordinance (Ordinance No. 12 of 1980 and as amended) is also relevant. Its purpose is "To prohibit the desecration, destruction and damaging of graves in cemeteries and receptacles containing bodies; to regulate the exhumation, disturbance, removal and re-interment of bodies, and to provide for matters incidental thereto". This ordinance is supplemented and support by local authorities regulations, municipality by-laws and ordinances.

DEFINITIONS AND APPLICABLE REGULATIONS

- 1). A "Municipality" is defined as any land, whether public or private, containing one or more graves.
- 2). A "grave" includes "(a) any place, whether wholly or partly above or below the level of ground and whether public or private, in which a body is permanently interred or intended to be permanently interred, whether in a coffin or other receptacle or not, and (b) any monument,

tombstone, cross, inscription, rail, fence, chain, erection or other structure of whatsoever nature forming part of or appurtenant to a grave.

3). No person shall desecrate, destroy or damage any grave in a cemetery, or any coffin or urn without written approval of the Administrator.

4). No person shall exhume, disturb, remove or re-inter anybody in a cemetery, or any coffin or urn without written approval of the Administrator.

5). Application must be made for such approval in writing, together with:

a). A statement of where the body is to be re-interred.

b). Why it is to be exhumed.

c). The methods proposed for exhumation.

d). Written permission from local authorities, nearest available relatives and their religious body owning or managing the cemetery, and where all such permission cannot be obtained, the application must give reasons why not.

6). The Administrator has the power to vary any conditions and to impose additional conditions.

7). Anyone found guilty and convicted is liable for a maximum fine of R200 and maximum prison sentence of six months.

5. Human remains from the graves of victims of conflict, or any burial ground or part thereof which contains such graves and any other graves that are deemed to be of cultural significance may not be destroyed, damaged, altered, exhumed or removed from their original positions without a permit from the National Heritage Resources Agency. They are administered by the Graves of Conflict Division at the SAHRA offices in Johannesburg.

“Victims of Conflict” are:

a). Those who died in this country as a result of any war or conflict but excluding those covered by the Commonwealth War Graves Act, 1992 (Act No. 8 of 1992).

b). Members of the forces of Great Britain and the former British Empire who died in active service before 4 August 1914.

c). Those who, during the Anglo Boer War (1899-1902) were removed from South Africa as prisoners and died outside South Africa, and,

d). Those people, as defined in the regulations, who died in the “liberation struggle” both within and outside South Africa.

6. Any burial that is older than 60 years, which is outside a formal cemetery administered by a local authority, is protected in terms of Section 36(3b) of the National Heritage Resources Act. No person shall destroy damage, alter, exhume or remove from its original position, remove from its original site or export from the Republic any such grave without a permit from the SAHRA.

There are some important new considerations applicable to B & C (above).

SAHRA may, for various reasons, issue a permit to disturb a burial that is known to be a grave of conflict or older than 65 years, or to use, at a burial ground, equipment for excavation or the detection or the recovery of metals.

(Permit applications must be made on the official form Application for Permit: Burial Grounds and Graves available from SAHRA or provincial heritage resources authorities.) Before doing so, however, SAHRA must be satisfied that the applicant:

- a). Has made satisfactory arrangements for the exhumation and re- interment of the contents of such a grave at the cost of the applicant.
- b). Has made a concerted effort to contact and consult communities and individuals who by tradition have an interest in such a grave and,
- c). Has reached an agreement with these communities and individuals regarding the future of such a grave or burial ground.

PROCEDURE FOR CONSULTATION

The regulations in the schedule describe the procedure of consultation regarding the burial grounds and graves. These apply to anyone who intends to apply for a permit to destroy damage, alter, remove from its original position or otherwise disturb any grave or burial ground older than 60 years that is situated outside a formal cemetery administered by a local authority. The applicant must make a concerted effort to identify the descendants and family members of the persons buried in and/or any other person or community by tradition concerned with such grave or burial ground by:

- 1). Archival and documentary research regarding the origin of the grave or burial ground;
- 2). Direct consultation with local community organizations and/or members;

3). The erection for at least 60 days of a notice at the grave or burial ground, displaying in all the official languages of the province concerned, information about the proposals affecting the site, the telephone number and address at which the applicant can be contacted by any interested person and the date by which contact must be made, which must be at least 7 days after the end of the period of erection of the notice; and

4). Advertising in the local press.

The applicant must keep records of the actions undertaken, including the names and contact details of all persons and organizations contacted and their response, and a copy of such records must be submitted to the provincial heritage resources authority with the application.

Unless otherwise agreed by the interested parties, the applicant is responsible for the cost of any remedial action required.

If the consultation fails to reach in agreement, the applicant must submit records of the consultation and the comments of all interested parties as part of the application to the provincial heritage resources authority.

In the case of a burial discovered by accident, the regulations state that when a grave is discovered accidentally in the course of development or other activity:

- a). SAHRA or the provincial heritage resources authority (or delegated representative) must, in cooperation with the Police, inspect the grave and decide whether it is likely to be older than 60 years or otherwise protected in terms of the Act; and whether any further graves exist in the vicinity.
- b). If the grave is likely to be so protected, no activity may be resumed in the immediate vicinity of the grave, without due investigation approved by SAHRA or the provincial heritage resources authority; and
- c). SAHRA or the provincial heritage resources authority may at its discretion modify these provisions in order to expedite the satisfactory resolution of the matter.
- d). Archaeological material, which includes human and hominid remains that are older than 100 years (see definition in section 2 of the Act), is protected by the National Heritage Resources Act (Section 35(4)), which states that no person may, without a permit issued by the responsible heritage resources authority - destroy, damage, excavate, alter or remove from its original site any archaeological or palaeontological material.

The implications are that anyone who has removed human remains of this description from the original site must have a permit to do so. If they do not have a permit, and if they are convicted of an offence in terms of the National Heritage Resources Act as a result, they must be liable to a maximum fine of R100 000 or five years imprisonment, or both.

TREAT HUMAN REMAINS WITH RESPECT

- a). Every attempt should be made to conserve graves in situ. Graves should not be moved unless this is the only means of ensuring their conservation.
- b). The removal of any grave or graveyard or the exhumation of any remains should be preceded by an historical and archaeological report and a complete recording of original location, layout, appearance and inscriptions by means of measured drawings and photographs. The report and recording should be placed in a permanent archive.
- c). Where the site is to be re-used, it is essential that all human and other remains be properly exhumed and the site left completely clear.
- d). Exhumations should be done under the supervision of an archaeologist, who would assist with the identification, classification, recording and preservation of the remains.
- e). No buried artifacts should be removed from any protected grave or graveyard without the prior approval of SAHRA. All artifacts should be re-buried with the remains with which they are associated. If this is not possible, proper arrangements should be made for the storage of such relics with the approval of SAHRA.
- f). The remains from each grave should be placed in individual caskets or other suitable containers, permanently marked for identification.
- g). The site, layout and design of the area for re-interment should take into account the history and culture associated with, and the design of, the original grave or graveyard.
- h). Re-burials in mass graves and the use of common vaults are not recommended.
- i). Remains from each grave should be re-buried individually and marked with the original grave markers and surrounds.
- j). Grouping of graves, e.g. in families, should be retained in the new layout.

- k). Material from the original grave or graveyard such as chains, kerbstones, railing and should be re-used at the new site wherever possible.
- l). A plaque recording the origin of the graves should be erected at the site of re-burial.
- m). Individuals or groups related to the deceased who claim the return of human remains in museums and other institutions should be assisted to obtain documentary proof of their ancestral linkages.

APPENDIX 2: LEGAL BACK GROUND AND PRINCIPLES OF HERITAGE RESOURCES MANAGEMENT IN SOUTH AFRICA

Extracts relevant to this report from the National Heritage Resources Act No. 25 of 1999, (Sections 5, 36 and 47)

General principles for heritage resources management

5. (1) All authorities, bodies and persons performing functions and exercising powers in terms of this Act for the management of heritage resources must recognize the following principles:

- (a) Heritage resources have lasting value in their own right and provide evidence of the origins of South African society and as they are valuable, finite, non-renewable and irreplaceable they must be carefully managed to ensure their survival;
- (b) every generation has a moral responsibility to act as trustee of the national heritage for succeeding generations and the State has an obligation to manage heritage resources in the interests of all South Africans;
- (c) heritage resources have the capacity to promote reconciliation, understanding and respect, and contribute to the development of a unifying South African identity; and
- (d) heritage resources management must guard against the use of heritage for sectarian purposes or political gain.

(2) To ensure that heritage resources are effectively managed—

- (a) the skills and capacities of persons and communities involved in heritage resources management must be developed; and
- (b) provision must be made for the ongoing education and training of existing and new heritage resources management workers.

(3) Laws, procedures and administrative practices must—

- (a) be clear and generally available to those affected thereby;
- (b) in addition to serving as regulatory measures, also provide guidance and information to those affected thereby; and
- (c) give further content to the fundamental rights set out in the Constitution.

- (4) Heritage resources form an important part of the history and beliefs of communities and must be managed in a way that acknowledges the right of affected communities to be consulted and to participate in their management.
- (5) Heritage resources contribute significantly to research, education and tourism and they must be developed and presented for these purposes in a way that ensures dignity and respect for cultural values.
- (6) Policy, administrative practice and legislation must promote the integration of heritage resources conservation in urban and rural planning and social and economic development.
- (7) The identification, assessment and management of the heritage resources of South Africa must—
 - (a) take account of all relevant cultural values and indigenous knowledge systems;
 - (b) take account of material or cultural heritage value and involve the least possible alteration or loss of it;
 - (c) promote the use and enjoyment of and access to heritage resources, in a way consistent with their cultural significance and conservation needs;
 - (d) contribute to social and economic development;
 - (e) safeguard the options of present and future generations; and
 - (f) be fully researched, documented and recorded.

Burial grounds and graves

36. (1) Where it is not the responsibility of any other authority, SAHRA must conserve and generally care for burial grounds and graves protected in terms of this section, and it may make such arrangements for their conservation as it sees fit.
- (2) SAHRA must identify and record the graves of victims of conflict and any other graves which it deems to be of cultural significance and may erect memorials associated with the grave referred to in subsection (1), and must maintain such memorials.
- (3)(a) No person may, without a permit issued by SAHRA or a provincial heritage resources authority—
- (a) destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;

- (b) destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or
 - (c) bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation equipment, or any equipment which assists in the detection or recovery of metals.
- (4) SAHRA or a provincial heritage resources authority may not issue a permit for the destruction or damage of any burial ground or grave referred to in subsection (3)(a) unless it is satisfied that the applicant has made satisfactory arrangements for the exhumation and re-interment of the contents of such graves, at the cost of the applicant and in accordance with any regulations made by the responsible heritage resources authority.
- (5) SAHRA or a provincial heritage resources authority may not issue a permit for any activity under subsection (3)(b) unless it is satisfied that the applicant has, in accordance with regulations made by the responsible heritage resources authority—
- (a) made a concerted effort to contact and consult communities and individuals who by tradition have an interest in such grave or burial ground; and
 - (b) reached agreements with such communities and individuals regarding the future of such grave or burial ground.
- (6) Subject to the provision of any other law, any person who in the course of development or any other activity discovers the location of a grave, the existence of which was previously unknown, must immediately cease such activity and report the discovery to the responsible heritage resources authority which must, in co-operation with the South African Police Service and in accordance with regulations of the responsible heritage resources authority—
- (a) carry out an investigation for the purpose of obtaining information on whether or not such grave is protected in terms of this Act or is of significance to any community; and
 - (b) if such grave is protected or is of significance, assist any person who or community which is a direct descendant to make arrangements for the exhumation and re-interment of the contents of such grave or, in the absence of such person or community, make any such arrangements as it deems fit.

- (7) (a) SAHRA must, over a period of five years from the commencement of this Act, submit to the Minister for his or her approval lists of graves and burial grounds of persons connected with the liberation struggle and who died in exile or as a result of the action of State security forces or agents provocateur and which, after a process of public consultation, it believes should be included among those protected under this section.
- (b) The Minister must publish such lists as he or she approves in the Gazette.
- (8) Subject to section 56(2), SAHRA has the power, with respect to the graves of victims of conflict outside the Republic, to perform any function of a provincial heritage resources authority in terms of this section.
- (9) SAHRA must assist other State Departments in identifying graves in a foreign country of victims of conflict connected with the liberation struggle and, following negotiations with the next of kin, or relevant authorities, it may re-inter the remains of that person in a prominent place in the capital of the Republic.

General policy

47. (1) SAHRA and a provincial heritage resources authority—

- (a) must, within three years after the commencement of this Act, adopt statements of general policy for the management of all heritage resources owned or controlled by it or vested in it; and
- (b) may from time to time amend such statements so that they are adapted to changing circumstances or in accordance with increased knowledge; and
- (c) must review any such statement within 10 years after its adoption.

(2) Each heritage resources authority must adopt for any place which is protected in terms of this Act and is owned or controlled by it or vested in it, a plan for the management of such place in accordance with the best environmental, heritage conservation, scientific and educational principles that can reasonably be applied taking into account the location, size and nature of the place and the resources of the authority concerned, and may from time to time review any such plan.

- (3) A conservation management plan may at the discretion of the heritage resources authority concerned and for a period not exceeding 10 years, be operated either solely by the heritage resources authority or in conjunction with an environmental or tourism authority or under contractual arrangements, on such terms and conditions as the heritage resources authority may determine.
- (4) Regulations by the heritage resources authority concerned must provide for a process whereby, prior to the adoption or amendment of any statement of general policy or any conservation management plan, the public and interested organisations are notified of the availability of a draft statement or plan for inspection, and comment is invited and considered by the heritage resources authority concerned.
- (5) A heritage resources authority may not act in any manner inconsistent with any statement of general policy or conservation management plan.
- (6) All current statements of general policy and conservation management plans adopted by a heritage resources authority must be available for public inspection on request.