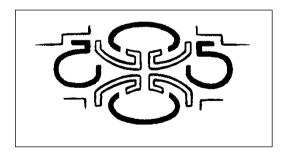
Cultural Heritage Impact Assessment:

Phase 1 Investigation for the Proposed Prospecting Right Application Diamonds Alluvial (DA), Diamonds General (D) And Diamonds (DIA) Including Associated Infrastructure and Earthworks on Portion 9 & Portion 10 of the Farm Vuurfontein 117 HO, Lekwa-Teemane Local Municipality, Dr Ruth Segomotsi Mompati District Municipality, North West Province



For

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Executive Summary

This report contains a comprehensive heritage impact assessment investigation in accordance with the provisions of Sections 38(1) and 38(3) of the *National Heritage Resources Act* (Act No. 25 of 1999) (NHRA) and focuses on the survey results from a cultural heritage survey as requested by Milnex CC. Milnex CC was contracted by Blaze Mineral Mining (Pty) Ltd as the independent environmental consultant to undertake both the Scoping and EIA Assessment Process for the Proposed Prospecting Right Application for Diamonds Alluvial (DA), Diamonds General (D) And Diamonds (DIA) Including Associated Infrastructure and Earthworks on Portion 9 & Portion 10 of the Farm Vuurfontein 117 HO, Lekwa-Teemane Local Municipality, Dr Ruth Segomotsi Mompati District Municipality, North West Province. The property is situated approximately 25 km south of Schweizer-Reneke on the R506 towards Wolmaransstad. The Environmental Authorisation for the proposed prospecting application is conducted in terms of the National Environmental Management Act (Act No. 107 of 1998) (NEMA) and Section 16(3)(b) of the EIA Regulations, 2014 and the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended).

A total of seven sites were recorded during the survey of which three are graveyards (Sites 1, 2 & 4), three are historical structures (Sites 3, 5 & 6) and one is the original farmhouse complex (Site 7). The sites are probably associated with a late 19th and early 20th phase of occupation as we know the farm was already occupied and owned by 1871. According to the family the farmhouse was built in the 1880s. Site 2 is an older graveyard and probably dates to the late 19th century, but the younger graveyard (Site 2) is a more recent addition, dating to the mid- 20th century. The main farmhouse (Site 7) has been extensively expanded and altered as the original central core is still intact. The original farm sheds and livestock enclosures are still standing and also date to the late 19th century. A blockhouse also farms part of the livestock enclosure walling. The farmhouse is also significant as it was occupied by the British soldiers during the South African War (1899-1902) (Personal Communication: farm owner).

In this regard please note the following proposed mitigation measures:

- Take note of the position of the existing heritage sites;
- A buffer zone of 50 metres should be maintained;
- Care should be taken to prevent any indirect impacts on the historical structures.

Site No	Site Type	Field Rating of Significance	Direct Impacts	Significance of Impact before Mitigation	Significance of Impact after Mitigation	Proposed Mitigation
1	Graveyard	Generally Protected A High significance	None	80	5	 Maintain 50 m buffer zone during prospecting Should be fenced off
2	Graveyard	Generally Protected A High significance	None	80	5	 Maintain 50 m buffer zone during prospecting Should be fenced off
3	Historical structure	Generally Protected C Low significance	None	80	5	• Maintain 50 m buffer zone during prospecting
4	Graveyard	Generally Protected A High significance	None	80	5	 Maintain 50 m buffer zone during prospecting Should be fenced off
5	Historical structure	Generally Protected C Low significance	None	80	5	• Maintain 50 m buffer zone during prospecting
6	Historical structure (Dam wall)	Generally Protected C Low significance	None	80	5	• Maintain 50 m buffer zone during prospecting

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			North West Province					
ſ	7	Farmhouse	Generally Protected C	None	80	5	•	Maintain 50 m buffer
		Complex	Low significance					zone during prospecting

No archaeological (both Stone Age and Iron Age) artefacts, assemblages, features, structures or settlements were recorded during the survey of the project footprint. It is well known that Late Iron Age stone-walled settlements do not usually occur in open exposed ridges and low-lying grasslands and floodplains.

It is therefore recommended, from a cultural heritage perspective that the proposed prospecting activities may proceed, taking into account the mitigation measures.

Also, please note:

Archaeological deposits usually occur below ground level. Should archaeological artefacts or skeletal material be revealed in the area during development activities, such activities should be halted, and a university or museum notified in order for an investigation and evaluation of the find(s) to take place (*cf.* NHRA (Act No. 25 of 1999), Section 36 (6)).

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Definitions and abbreviations

Midden:	Refuse that accumulates in a concentrated heap.	
Stone Age:	An archaeological term used to define a period of stone tool use and manufacture	
Iron Age:	An archaeological term used to define a period associated with domesticated livestock and grains, metal working and ceramic manufacture	
LIA:	Late Iron Age sites are usually demarcated by stone-walled enclosures	
NHRA:	National Heritage Resources Act (Act No. 25 of 1999)	
SAHRA:	South African Heritage Resources Agency	
SAHRIS:	South African Heritage Resources Information System	
PHRA-G:	Provincial Heritage Resources Authority - Gauteng	
GDARD:	Gauteng Department of Agriculture and Rural Development	
HIA:	Heritage Impact Assessment	
BAR:	Basic Assessment Report	
EMPr:	Environmental Management Programme report	
DMR:	Department of Mineral Resources	
DEDECT:	Department of Economic Development, Environment, Conservation and	
	Tourism	
I&APs:	Interested and Affected Parties	

I, Francois Coetzee, hereby confirm my independence as a cultural heritage specialist and declare that I do not have any interest, be it business, financial, personal or other, in any proposed activity, application or appeal in respect of the listed environmental processes, other than fair remuneration for work performed on this project.

Francois P Coetzee Cultural Heritage Consultant Accredited Archaeologist for the SADC Region Professional Member of ASAPA (CRM Section) Reg no: 28

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North West Province1.Introduction and Terms of Reference

Milnex CC was contracted by Blaze Mineral Mining (Pty) Ltd as the independent environmental consultant to undertake both the Scoping and EIA Assessment Process for the Proposed Prospecting Right Application for Diamonds Alluvial (DA), Diamonds General (D) And Diamonds (DIA) Including Associated Infrastructure and Earthworks on Portion 9 & Portion 10 of the Farm Vuurfontein 117 HO, Lekwa-Teemane Local Municipality, Dr Ruth Segomotsi Mompati District Municipality, North West Province. The property is situated approximately 25 km south of Schweizer-Reneke on the R506 towards Wolmaransstad. The Environmental Authorisation for the proposed prospecting application is conducted in terms of the National Environmental Management Act (Act No. 107 of 1998) (NEMA) and Section 16(3)(b) of the EIA Regulations, 2014 and the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended). A Cultural Heritage Impact Assessment (HIA) was requested by Milnex CC on behalf of the client to evaluate the potential impact of the proposed prospecting activities. Project reference number: NW30/5/1/1/2/13755PR.

2. Objectives

The general objective of the cultural heritage survey is to record and document cultural heritage remains consisting of both tangible and intangible archaeological and historical artefacts, structures (including graves), settlements and oral traditions of cultural significance.

As such the terms of reference of this survey are as follows:

- Identify and provide a detailed description of all artefacts, assemblages, settlements and structures of an archaeological or historical nature (cultural heritage sites) located on the study area,
- Estimate the level of significance/importance of these remains in terms of their archaeological, historical, scientific, social, religious, aesthetic and tourism value,
- Assess any impact on the archaeological and historical remains within the area emanating from the development activities, and
- Propose recommendations to mitigate heritage resources where complete or partial conservation may not be possible and thereby limit or prevent any further impact.

3. Description of Physical Environment of Study Area

The heritage survey footprint is situated approximately 25 km south of Schweizer-Reneke on the R506 towards Wolmaransstad. The P86-1 road passes through the survey area.

Farm Name(s) and Portions	Vuurfontein 117 HO	
	• Portion 9	
	\circ a certain portion of Portion 10 (excluding the 5ha mining	
	permit)	
Size of Survey Areas	1176.1577 hectares	
Magisterial District	Lekwa-Teemane Local Municipality	
	Dr Ruth Segomotsi Mompati District Municipality	
1:50 000 Map Sheet	2725AD	
1:250 0000 Map Sheet	2724	
Central Coordinates of the	27.422930°S	
Development	25.303170°E	
Table 1. Dhusical Engineering		

 Table 1: Physical Environment

The survey footprint falls within the Savanna Biome, particularly the Eastern Kalahari Bushveld Bioregion and more specifically the Kimberley Thornveld (SVk 4). This vegetation type occurs in North West, Free State and Northern Cape Provinces also most of the Kimberley, Hartswater, Bloemhof and Hoopstad Districts as well as substantial parts of the Warrenton, Christiana, Taung, Boshof and to some extent the Barkly West Districts. Also includes pediment areas in the Herbert and Jacobsdal Districts (Mucina & Rutherford 2006).

The survey footprint is characterised as an open and flat area marked by elevated ridges. Several gravel roads provide access to the farm. The survey footprint is extensively disturbed by agricultural fields (both used and fallow) and vast prospecting and mining diggings, several large dumps, especially along the central region of the farm. Infrastructure also includes fences, power lines, mining plants and farming complexes (with associated outbuildings).

The region normally receives about 344 mm of rain per year, with most rainfall occurring during mid-summer. The area receives the lowest rainfall (0mm) in June and the highest (70mm) in January. The monthly distribution of average daily maximum temperatures shows that the average midday temperatures for the region range from 19°C in June to 32.9°C in January. The municipal area is the coldest during June when the temperature drops to 0°C on average at night. The municipal area is semi-arid, with occasional hail and frost (Lekwa-Teemane Local Municipality IDP 2022).

Current Zoning	Farming
Current Zonnig	Cattle grazing (pastoralism) and agriculture
	Mining
Economic activities	Farming and mining
Soil and basic geology	Dolomite and chert of the Malmani Subgroup (Transvaal Supergroup) supporting mostly shallow Mispah and Glenrosa soil forms typical of the Fa land type, dominating the landscapes of this unit. Deeper red to yellow apedal soils (Hutton and Clovelly forms) occur sporadically, representing the Ab land type. Aeolian and colluvial sand overlying sandstone, mudstone and shale of the Karoo Supergroup (mostly the Ecca Group) as well as older Ventersdorp Supergroup andesite and basement gneiss in the north. Soil forms are mostly Avalon, Westleigh and Clovelly.
Prior activities	Livestock farming and agriculture
Socio Economic Environment	Ventersdorp Region consists of a vast rural / commercial farming area as well as the urban area of Ventersdorp, Tshing and Toevlug and has six villages namely Goedgevonden, Welgevonden, Tsetse, Ga-Magopa, Boikhutso and Boikhutsong. The North-West Province has close to 4.1 million inhabitants. Bojanala Platinum District comprise close to 47% of the total population of North West, Dr Keneth Kaunda DM (19%), Ngaka Modiri Molema DM (22%) and Dr Ruth Segomotsi Mompati DM (12%). Approximately 49,1% (2,0M) of the population in the North West is female and males 49.12%. Bojanala Platinum DM is the only district with a higher proportion of males. North West has close to 32% of children under 15 whilst Gauteng has the highest proportion of Youth and Adults (15-59). Around 47% of North West Population is considered poor based on the Lower Bound Poverty Line. (Money metric Poverty). 46,2% of Female headed households in North West do not have an employed household member. Most provinces are closer to the SA average for obtaining NSC, however still large disparity in obtaining post school qualifications by province, in the North West province 28.7% are able to obtain NSC/Grade 12 and 9.13% are able to obtain post school

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	education. Grants remain a significant source of income for SA		
	households, particularly in rural areas, 36% of household income is		
	sourced from remittances and grants in North West.		
Evaluation of Impact	An evaluation of the impact of the development on heritage resources		
	relative to the sustainable social and economic benefits NHRA (Act No.		
	25 of 1999, Section 38(3d)): Positive		

 Table 2: Socio-economic environment



Figure 1: Regional context of the survey footprints located south of Schweizer-Reneke (indicated by the red area)



Figure 2: Local context of the survey footprints located south of Schweizer-Reneke (indicated by the red areas)

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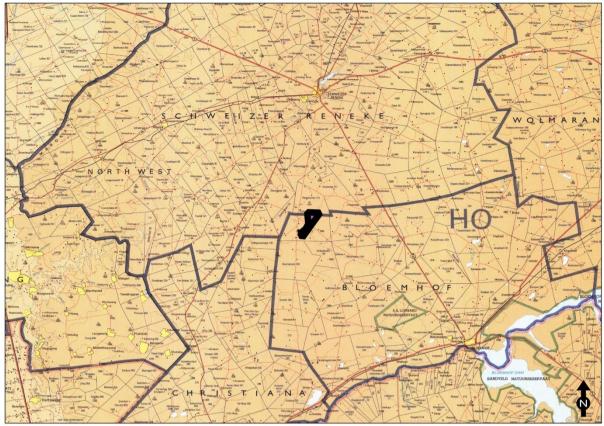


Figure 3: Local context of the survey footprint (1:250 000 Topographical Map 2724)

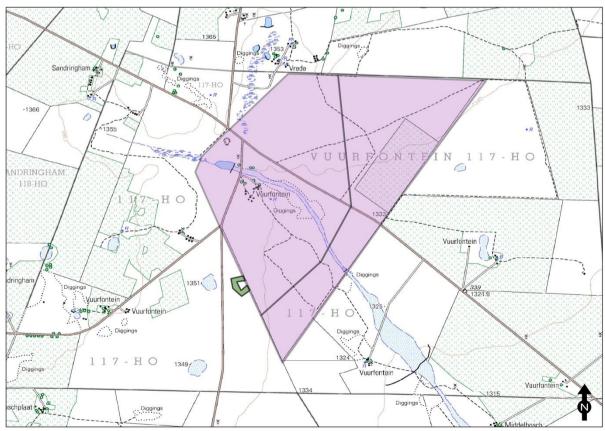


Figure 4: The survey footprint as indicated on the 1:50 000 topographic map 2725AD (2001)

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Figure 5: Survey footprint within general context (Google Earth Pro 2023)



Figure 6: Survey footprint within local context (Google Earth Pro 2023)



Figure 7: General view of the central section of the survey footprint (existing infrastructure)

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Figure 8: General view of the western section of the survey footprint



Figure 9: General view of the western section of the survey footprint



Figure 10: General view of the central section of the survey footprint (prospecting and mining activities)



Figure 11: General view of the central section of the survey footprint (prospecting and mining activities)



Figure 12: General view of the central section of the survey footprint (prospecting and mining activities)

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Figure 13: General view of the central section of the survey footprint (prospecting and mining activities)



Figure 14: General view of the northern section of the survey footprint



Figure 15: General view of the western section of the survey footprint (existing infrastructure)



Figure 16: General view of the eastern section of the survey footprint (livestock camps)



Figure 17: General view of the central section of the survey footprint (along access road)

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Figure 18: General view of the northern section of the survey footprint (old mine dumps)



Figure 19: General view of the northern section of the survey footprint (old mining and infrastructure)



Figure 20: General view of the central section of the survey footprint (non-perennial stream)



Figure 21: General view of the central section of the survey footprint

4. **Proposed Project Description**

The testing and prospecting activities include the following:

- **Pitting:** Pits will be excavated, locked, sampled and backfilled. Pitting will be done within the period of 10 months once the prospecting right has been granted. It is planned that 100 pits will be excavated (it may be less depending on the results) at an extent of 3 m (length) x 2 m (breath) x 2 m (in depth). 100 pits/10 months = 100 pits dug per 10 months. Total area to be disturbed per year = 100 pits x (3 m x 1 m) / 10 000 = 0.06 Ha disturbed.
- **Trenches:** Bulk samples will have to be taken to determine the average sample grade. By taking of the bulk samples, the applicant foresees to determine the grade of the diamond deposits as the number of carats contained in 100 tons (cpht) of gravel and to determine the average diamond sizes. The applicant will have to process bulk samples

of approximately 216 000 tonnes. The plant/ bulk sampling technique shall be that of a typical South African alluvial diamond mining operation. The method is a strip mining process with oversize material and tailings recovered from the plant will be used as backfill material prior to final rehabilitation. Gravels are excavated, loaded and transported to the treatment facility using dump trucks. The bulk sampling operation will be conducted using a fleet of conventional open pit mining equipment compromising of dump trucks supported by appropriate excavators and front-endloaders. All equipment is planned to be diesel driven. Before excavation commences vegetation shall be cleared from the proposed bulk sampling block. These shall be done as per environmental regulations. Top soil will then be removed and stored separately for later used for rehabilitation. The bulk samples will be made in the form of box cuts the dimensions of these individual box cuts will on average be 40m wide x 30 m long. It is estimated that the bulk samples will be 3m in depth. It is planned that 50 trenches will be dug at an extent of 40m (length) x 30m (width) x 3m (depth). 50 trenches x 40 m x 30 m/10000 = 6 ha disturbed. Since 100 pits & 50 Trenches are anticipated to be made over the period of 58 months, concurrent rehabilitation needs to take place.

- Water use: Since 1 x 14 m washing pans will be used the amount of water for the pans will be 15 000 L/hour from which 30% is re-used.
- Ablution: Chemical toilets shall be used, no french drains and pits shall be permitted.
- Storage of dangerous goods: During mining activities, limited quantities of diesel and fuel, oil and lubricants if any will be stored on site. These goods should be placed in a bounded area one and a half times the volume of the total amount of goods to be stored. Types of lubricants should be dependent on the machines used, this will include diesel, fuel and oil. It should be noted that no more than 80 000 cubes metres of diesel may be stored on site.

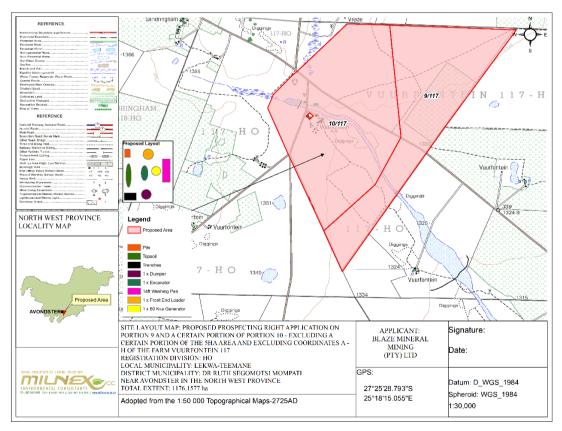


Figure 22: Proposed layout of the propose prospecting activities

5. Legal Framework

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE APPLIED
The Constitution of the Republic of South Africa (Act No. 108 of 1996)	
The National Environmental Management Act (Act No. 107 of 1998)	Section 24(1) Section 28(1)
The National Water Act (Act No. 36 of 1998)	Section 21 (a)(b)
Air Quality Act (Act No. 39 of 2004)	
National Forests Act, Act of 84 of 1998	-
The National Heritage Resources Act (Act No. 25 of 1999)	Section 38, 34, 35, 36
Conservation of Agricultural Resources Act (Act No. 85 of 1983)	
Mineral and Petroleum Resources Development Act (Act No. 28 of 2002)	
The National Water Act (Act No. 36 of 1998);	
Mine Health and Safety Act (Act No. 29 of 1996) (MHSA)	
Biodiversity Act (Act 10 of 2004)	
Lekwa-Teemane Local Municipality IDP 2022	
ole 3: Legal framework	

Description of the overall activity. (Indicate Mining Right, Mining 1) Listing Notice 1, (GNR 327), Activity 19: The infilling or depositing of Permit, Prospecting right, Bulk any material of more than 10 cubic metres into, or the dredging, Sampling, Production Right, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or Exploration Right, Reconnaissance rock of more than 10 cubic metres from: permit, Technical co-operation (i) a watercourse; permit, Additional listed activity) 2) Listing Notice 1 (GNR 327), Activity 20 (Amended GNR 517: **2021):** *"Any activity including the operation of that activity which* requires a prospecting right in terms of section 16 of the Mineral and Petroleum Resources Development Act, as well as any other applicable activity as contained in this Listing Notice or in Listing Notice 3 of 2014. required to exercise the prospecting right"

3) Listing Notice 1 (GNR 327), Activity 27: "The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation."
4) Listing Notice 2 (GNR 325), Activity 19 (Amended GNR 517: 2021): "The removal and disposal of minerals which requires permission contemplated in terms of section 20 of the Mineral and Petroleum Resources Development Act. 2002, as well as any other applicable

Resources Development Act, 2002, as well as any other applicable activity as contained in this Listing Notice, Listing Notice 1 of 2014 or in Listing Notice 3 of 2014, required to exercise the permission.

5) Listing Notice 3 (GNR 324), Activity 4: The development of a road wider than 4 metres with a reserve less than 13,5 metres. (h) North West, ii) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; (iv) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority;

6) Listing Notice 3 (GNR 324), Activity 12: The clearance of an area of 300 square metres or more of indigenous vegetation. (h) North West, (iv). Within critical biodiversity areas identified in bioregional plans; (v) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; or (vi) Areas within a watercourse or wetland, or within 100 metres from the edge of a watercourse or wetland.

Prospecting right with bulk samples for the prospecting of **Diamonds Alluvial (DA), Diamonds General (D) & Diamonds (DIA)** including Coetzee, FP

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associated infrastructure, structure and earthworks. Please note the establishment or reclamation of residue stockpiles or residue deposits will still take place, but is now exempt from the list of Waste Management Activities (GNR 921, as amended)

Table 4: Listing Notices: 2017 Regulations as amended

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetc E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etcetc)	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY Mark with an X where applicable or affected	(GNR 324, GNR 325 or GNR 326)
 Prospecting: BULK SAMPLING: 216 000 tonnes 1176.1577 Ha Pits: 100 pits, with dimensions of 3m x 2m x 3m each. Trenches: 50 trenches with dimensions of 40m x 30m x 3m each. Listing Notice 1, (GNR327), Activity 19: The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from: (i) a watercourse; 	Random indigenous vegetation clearance of over a 1176.1577 hectares area. Concurrent backfilling will take place in order to rehabilitate		Listing Notice 1, (GNR327), Activity 19
 Prospecting Right: BULK SAMPLING: 216 000 tonnes 1176.1577 Ha Pits: 100 pits, with dimensions of 3m x 2m x 3m each. Trenches: 50 trenches with dimensions of 40m x 30m x 3m each. Listing Notice 1 (GNR 327), Activity 20 (Amended GNR 517: 2021): "Any activity including the operation of that activity which requires a prospecting right in terms of section 16 of the Mineral and Petroleum Resources Development Act, as well as any other applicable activity as contained in this Listing Notice or in Listing Notice 3 of 2014, required to exercise the prospecting right" 	vegetation clearance of over a 1176.1577 hectares area. Concurrent backfilling will take place in order to rehabilitate		Listing Notice 1 (GNR 327), Activity 20 (Amended GNR 517: 2021)
Clearance of indigenous vegetation: BULK SAMPLING: 216 000 tonnes 1176.1577 Ha Pits: 100 pits, with dimensions of 3m x 2m x 3m each. Trenches: 50 trenches with dimensions of 40m x 30m x 3m each. Listing Notice 1 (GNR 327), Activity 27: "The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation."	Random indigenous vegetation clearance of over a 1176.1577 hectares area. Concurrent backfilling will take place in order to rehabilitate		Listing Notice 1 (GNR 327), Activity 27

	Right Application of the F	Farm Vuurfont	ein 117 HO <u>,</u>
North West Provi			,
each.	vegetation clearance of over a 1176.1577 hectares area. Concurrent backfilling will take place in order to rehabilitate		Listing Notice 2 (GNR 325), Activity 19 (Amended GNR 517: 2021)
BULK SAMPLING: 216 000 tonnes 1176.1577 Ha Pits: 100 pits, with dimensions of 3m x 2m x 3m each.	Random indigenous vegetation clearance of over a 1176.1577 hectares area. Concurrent backfilling will take place in order to rehabilitate		Listing Notice 3 (GNR 324), Activity 4: (h) (ii) & (iv).
Trenches : 50 trenches with dimensions of 40m x 30m x 3m each.	Random indigenous vegetation clearance of over a 1176.1577 hectares area. Concurrent backfilling will take place in order to rehabilitate		Listing Notice 3 (GNR 324), Activity 12: (h) (iv), (v) & (vi)

Table 5: Listing notices

- Section 38 of the NHRA (Act No. 25 of 1999) stipulates that the following activities trigger a heritage survey:

Development criteria in terms of Section 38(1a-e) of the NHRA (Act No. 25 of 1999)	
Construction of road, wall, powerline, pipeline, canal or other linear form of	No
development or barrier exceeding 300m in length	
Construction of bridge or similar structure exceeding 50m in length	No
Development exceeding 5000 m ² in extent	Yes
Development involving three or more existing erven or subdivisions	
Development involving three or more erven or divisions that have been	No
consolidated within past five years	
Rezoning of site exceeding 10000m^2	No
Any other development category, public open space, squares, parks, recreation grounds	No

 Table 6: Activities that trigger Section 38 of the NHRA

North West Province

- Field rating system as recommended by SAHRA:

Field Rating	Grade	Significance	Recommended Mitigation
6			
National	Grade I	High	Conservation by SAHRA, national site nomination,
Significance		significance	mention any relevant international ranking.
			No alteration whatsoever without permit from SAHRA.
Provincial	Grade II	High	Conservation by provincial heritage authority,
Significance		significance	provincial site nomination. No alteration whatsoever
_		-	without permit from provincial heritage authority.
Local	Grade III-A	High	Conservation by local authority, no alteration
Significance		significance	whatsoever without permit from provincial heritage
-		-	authority. Mitigation as part of development process
			not advised.
Local	Grade III-B	High	Conservation by local authority, no external
Significance		significance	alteration without permit from provincial heritage
•		•	authority. Could be mitigated and (part) retained as
			heritage register site.
Generally	Grade IV-A	High/medium	Conservation by local authority. Site should be
Protected A		significance	mitigated before destruction. Destruction permit
		U	required from provincial heritage authority.
Generally	Grade IV-B	Medium	Conservation by local authority. Site should be
Protected B		significance	recorded before destruction. Destruction permit required
		5	from provincial heritage authority.
Generally	Grade IV-C	Low	Conservation by local authority. Site has been
Protected C		significance	sufficiently recorded in the Phase 1 HIA. It requires
			no further recording before destruction. Destruction
			permit required from provincial heritage authority.

 Table 7: Field rating system to determine site significance

- Heritage resources have lasting value in their own right and provide evidence of the origins of South African society and they are valuable, finite, non-renewable and irreplaceable.
- All archaeological remains, features, structures and artefacts older than 100 years and historic structures older than 60 years are protected by the relevant legislation, in this case the National Heritage Resources Act (NHRA) (Act No. 25 of 1999, Section 34 & 35). The Act makes an archaeological impact assessment as part of an EIA and EMPR mandatory (see Section 38). No archaeological artefact, assemblage or settlement (site) may be moved or destroyed without the necessary approval from the South African Heritage Resources Agency (SAHRA). Full cognisance is taken of this Act in making recommendations in this report.
- Cognisance will also be taken of the Mineral and Petroleum Resources Development Act (Act No 28 of 2002) and the National Environmental Management Act (Act No 107 of 1998) when making any recommendations.
- Human remains older than 60 years are protected by the NHRA, with reference to Section 36. Human remains that are less than 60 years old are protected by the Regulations Relating to the Management of Human Remains (GNR 363 of 22 May 2013) made in terms of the National Health Act No. 61 of 2003 as well as local Ordinances and regulations.
- With reference to the evaluation of sites, the certainty of prediction is definite, unless stated otherwise.
- The guidelines as provided by the NHRA (Act No. 25 of 1999) in Section 3, with special reference to subsection 3, and the Australian ICOMOS (International Council

on Monuments and Sites) Charter (also known as the Burra Charter) are used when determining the cultural significance or other special value of archaeological or historical sites.

- A copy of this report will be submitted on SAHRIS as stipulated by the National Heritage Resources Act (NHRA) (Act No. 25 of 1999), Section 38 (especially subsection 4) and the relevant Provincial Heritage Resources Authority (PHRA).
- Note that the final decision for the approval of permits, or the removal or destruction of sites, structures and artefacts identified in this report, rests with the SAHRA (or relevant PHRA).

6. Study Approach/Methodology

Geographical information (KML shapefiles) on the proposed prospecting activities was supplied by Milnex CC. The most up-to-date Google Earth images and topographic maps were used to indicate the survey area. Topographic maps were sources from the Surveyor General. Please note that all maps are orientated with north facing upwards (unless stated otherwise).

The strategy during this survey was to conduct a thorough investigation of the various portions of the farm that form part of the application. The aim was therefore to conduct a detailed pedestrian (foot) and predictive survey of the survey footprint, augmented by existing knowledge and aerial information of the region. Existing infrastructure was used to gain access to the area followed by detailed pedestrian investigations. Please note that the area has been extensively mined and used for agricultural farming during the last few decades.

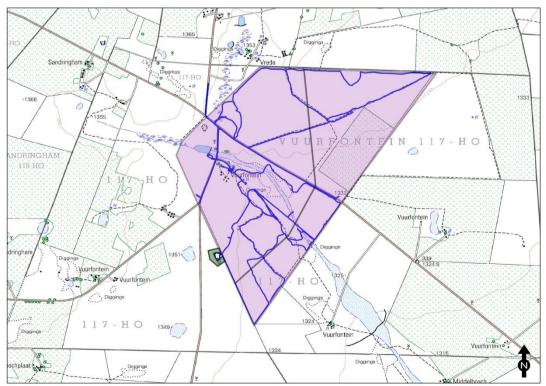


Figure 23: Recorded survey tracks on various sections of the survey footprint

6.1 Review of existing information/data

Additional information on the cultural heritage of the area was sourced from the following records:

- National Mapping Project by SAHRA (which lists heritage impact assessment reports submitted for South Africa);
- Environmental Potential Atlas (ENPAT);
- Online SAHRIS database;
- National Automated Archival Information retrieval System (NAAIRS);
- Maps and information documents supplied by the client; and
- Several heritage surveys have been conducted in the vicinity of the survey area (published and unpublished material on the area (Kruger 2018a, 2018b; Kusel 2007, 2020; Van Schalkwyk 2017, 2018, 2021)

Although several heritage impact assessments have been completed in the general vicinity of the survey area, no heritage sites were recorded inside the survey footprint. A survey conducted in the Bloemhof Nature Reserve situated to the south of the survey footprint recorded Early, Middle and Later Stone assemblages, two cemeteries and at least ten historical farm homesteads (Kusel 2007). A survey on the farm Kameelkuil 88 HO near Bloemhof yielded one graveyard with over 100 graves (Van Schalkwyk 2017). A heritage scoping study (desktop) of the farm Ganspan 194 HO, situated to the north of the current survey footprint, was conducted and indicated a high probability of historical structures and graves in the area (Kruger 2018a). A heritage scoping study (desktop) of the farm Oersonskraal 250 HO, situated to the east of the current survey footprint, was conducted and indicated a low to medium probability of military remains, historical structures and graves in the area (Kruger 2018b). The farm Mimosa 61 HO located south of Schweizer-Reneke was surveyed in 2018, however no cultural heritage remains were recorded (Van Schalkwyk 2018). A survey was also conducted on the farms Maraetchesfontein 54 HO and Rietput 60 HO which yielded the following cultural heritage sites, namely a rock art engraving site, a graveyard with two graves, another graveyard with 20 graves and a historical livestock enclosure (Van Schalkwyk 2021). During 2020 a heritage survey was conducted in the town Schweizer-Reneke and the farm Townlands 62 HO during which no cultural heritage remains were recorded (Kusel 2020).

Note that several heritage sites have been recorded in the Schweizer-Reneke and Wolmaransstad region, however none are located near the survey footprint (SAHRIS Database 2023) (see Figure 24). Furthermore, no declared National or Provincial Heritage Site has been recorded in the region (SAHRIS Database 2023).

HIA: Prospecting Right Application of the Farm Vuurfontein 117 HO, North West Province

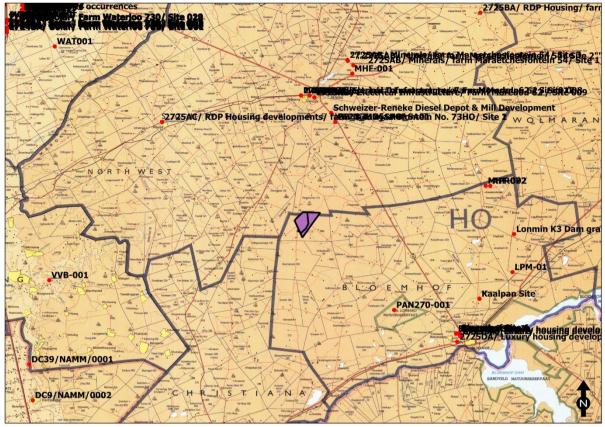


Figure 24: Recorded sites near the survey footprint (SAHRIS as at August 2023)

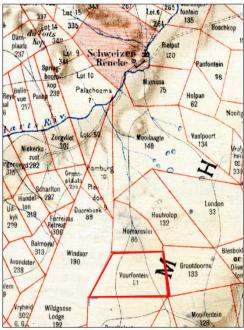


Figure 25: Jeppe's Map dating to 1899 indicates the location of the farms east of Ventersdorp

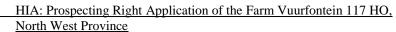




Figure 26: South African War (1899-1902): Map of Transvaal (1899)

According to the Surveyor General's database the farm Vuurfontein 117 HO was originally surveyed in 1903. However, the Deed of Grant was already registered to B.F.P. Fourie on 27 October 1871 (see Addendum 3).

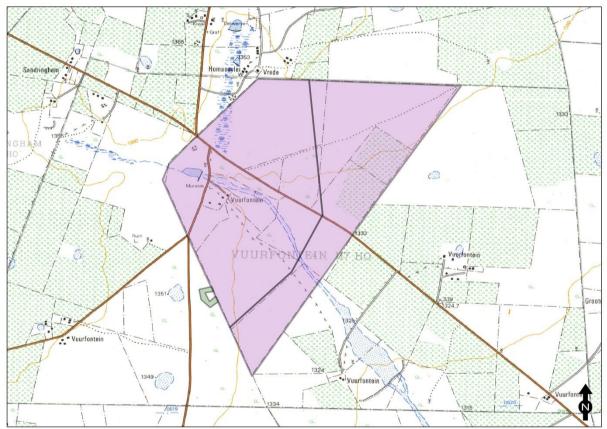


Figure 27: The survey areas as indicated on the 1:50 000 topographic map 2725AD (1972)

Historical maps of the late 19th to mid 20th centuries clearly indicate two access roads situated on the farm. According to archival documents the application of mining for the alluvial mining of precious stones (diamonds) on the farm Vuurfontein 117 HO was first requested in 1903 between Mr DG Pritchard and the owner of the farm (TAB/CS/346) and started in 1928 (SAB/MNW/945) with proclamations in 1939 (SAB/URU/1843) and 1946 (SAB/URU/2305) and later also in 1957 (SAB\URU\3620). In 1965 Portion 16 of the farm was deproclaimed for alluvial diamonds (SAB\URU\4841).

6.2 Palaeontological sensitivity

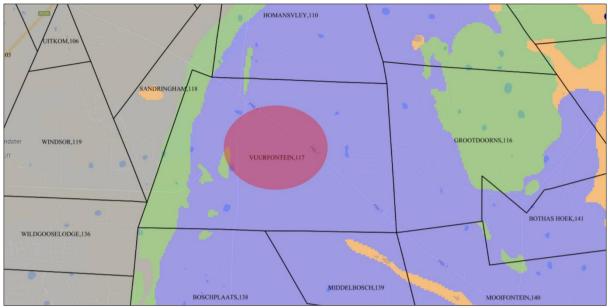


Figure 28: Palaeontological sensitivity zones as indicated (SAHRIS 2023)

Colour	Sensitivity	Required Action
RED	VERY HIGH	Field assessment and protocol for finds is required
ORANGE/YELLOW		Desktop study is required and based on the outcome of the desktop study, a field assessment is likely
GREEN	MODERATE	Desktop study is required
BLUE		No palaeontological studies are required however a protocol for finds is required
GREY	INSIGNIFICANT/ZERO	No palaeontological studies are required
WHITE/CLEAR	UNKNOWN	Will require a minimum of a desktop study. As more information comes to light, SAHRA will continue to populate the map.

The palaeontological sensitivity map was extracted from the SAHRIS database and indicates mostly and blue (low) sensitivity for the farm. As a result no palaeontological study will be required for the survey footprint.

6.3 Site visits

The field survey was conducted on 5 October 2023.

6.4 Social interaction and current inhabitants

Local residents and the farm owners were consulted during the survey to locate known heritage sites in the region.

6.5 Public Consultation and Stakeholder Engagement

An advertisement was placed in English in the local newspaper (Stellalander) on 10 May 2023 notifying the public of the EIA process and requesting Interested and Affected Parties (I&APs) to register with, and submit their comments to Milnex CC. I&APs were given the opportunity to raise comments within 30 days of the advertisement. Site notices were placed

on site in English to inform surrounding communities and immediately adjacent landowners of the proposed development. I&APs will be given the opportunity to raise comments. Identified I&APs, including key stakeholders representing various sectors, are directly informed of the proposed development and the availability of the Scoping Report via registered post on 15 May 2023 and were requested to submit comments by 14 June 2023 (30 days).

6.6 Assumptions, restrictions, gaps and limitations

No severe physical restrictions were encountered as the survey area was totally accessible.

6.7 Methodology for assessment of potential impacts

All impacts identified during the EIA stage of the study will be classified in terms of their significance. Issues were assessed in terms of the following criteria:

- The **nature**, a description of what causes the effect, what will be affected and how it will be affected;
- The **physical exten**t, wherein it is indicated whether:
 - \circ 1 the impact will be limited to the site;
 - \circ 2 the impact will be limited to the local area;
 - 3 the impact will be limited to the region;
 - \circ 4 the impact will be national; or
 - 5 the impact will be international.
- The **duration**, wherein it is indicated whether the lifetime of the impact will be:
 - \circ 1 of a very short duration (0–1 years);
 - 2 of a short duration (2-5 years);
 - \circ 3 of a medium-term (5–15 years);
 - \circ 4 of a long term (> 15 years); or
 - 5 permanent.
- The **magnitude** of impact, quantified on a scale from 0-10, where a score is assigned:
 - \circ 0 small and will have no effect;
 - 2 minor and will not result in an impact;
 - 4 low and will cause a slight impact;
 - 6 moderate and will result in processes continuing but in a modified way;
 - 8 high, (processes are altered to the extent that they temporarily cease); or
 - 10 very high and results in complete destruction of patterns and permanent cessation of processes;
- The **probability** of occurrence, which describes the likelihood of the impact actually occurring and is estimated on a scale where:
 - 1 very improbable (probably will not happen);
 - 2 improbable (some possibility, but low likelihood);
 - 3 probable (distinct possibility);
 - 4 highly probable (most likely); or
 - 5 definite (impact will occur regardless of any prevention measures);
- The **significance**, which is determined through a synthesis of the characteristics described above (refer formula below) and can be assessed as low, medium or high;
- The **status**, which is described as either positive, negative or neutral;
 - The degree to which the impact can be reversed;
 - The degree to which the impact may cause irreplaceable loss of resources; and
 - The degree to which the impact can be mitigated.

The significance is determined by combining the criteria in the following formula:

 $S = (E+D+M) \times P$; where: S = Significance weighting E = Extent D = Duration M = MagnitudeP = Probability

Points	Significance Weighting	Discussion
< 30 points	Low	Where this impact would not have a direct influence on the decision to develop in the area.
31-60 point	Medium	Where the impact could influence the decision to develop in the area unless it is effectively mitigated.
> 60 points	High	Where the impact must have an influence on the decision process to develop in the area.

7. The Cultural Heritage Sites

7.1. Isolated occurrences

Isolated occurrences are artefacts or small features recorded on the surface with no contextual information. No other associated material culture (in the form of structures or deposits) was noted that might provide any further context. This can be the result of various impacts and environmental factors such as erosion and modern developments. By contrast archaeological sites are often complex sites with evidence of archaeological deposit and various interrelated features such as complex deposits, stone walls and middens. However, these isolated occurrences are seen as remains of erstwhile complex or larger sites and they therefore provide a broad indication of possible types of sites or structures that might be expected to occur or have occurred in the survey footprint.

No isolated finds were recorded during the survey.

7.2 Heritage sites

A total of seven sites were recorded during the survey of which three are graveyards (Sites 1, 2 & 4), three are historical structures (Sites 3, 5 & 6) and one is the original farmhouse complex (Site 7). The sites are probably associated with a late 19^{th} and early 20^{th} phase of occupation as we know the farm was already occupied and owned by 1871. According to the family the farmhouse was built in the 1880s. Site 2 is an older graveyard and probably dates to the late 19^{th} century, but the younger graveyard (Site 2) is a more recent addition, dating to the mid- 20^{th} century. The main farmhouse (Site 7) has been extensively expanded and altered as the original central core is still intact. The original farm sheds and livestock enclosures are still standing and also date to the late 19^{th} century. A blockhouse also farms part of the livestock enclosure walling. The farmhouse is also significant as it was occupied by the British soldiers during the South African War (1899-1902) (Personal Communication: farm owner).

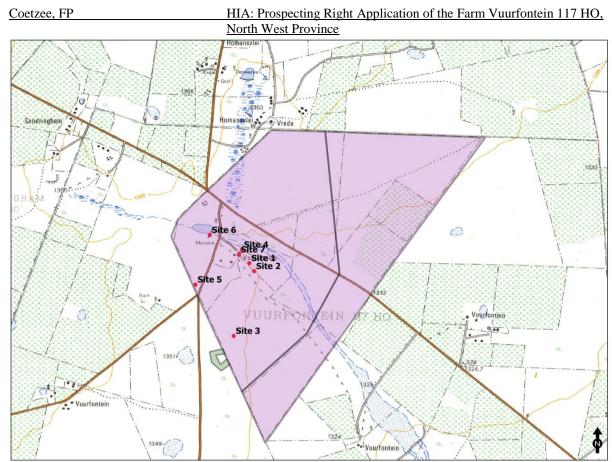


Figure 29: Location of the heritage sites within the survey footprint

8. Locations and Evaluation of Sites

Site No	Coordinates	Site Type	Field Rating of Significance	Impact	Proposed Mitigation
1	27.428348 , 25.295694	Graveyard	Generally Protected A High significance	None	 Maintain 50 m buffer zone during prospecting Should be fenced off
2	27.429536 , 25.296400	Graveyard	Generally Protected A High significance	None	 Maintain 50 m buffer zone during prospecting Should be fenced off
3	27.439171 , 25.293368	Historical structure	Generally Protected C Low significance	None	• Maintain 50 m buffer zone during prospecting
4	27.426348 , 25.294589	Graveyard	Generally Protected A High significance	None	 Maintain 50 m buffer zone during prospecting Should be fenced off
5	27.431529 , 25.287677	Historical structure	Generally Protected C Low significance	None	• Maintain 50 m buffer zone during prospecting
6	27.424161 , 25.289811	Historical structure (Dam wall)	Generally Protected C Low significance	None	• Maintain 50 m buffer zone during prospecting
7	27.427075 , 25.294148	Farmhouse Complex	Generally Protected C Low significance	None	• Maintain 50 m buffer zone during prospecting

Table 8: Location and evaluation of sites

9. Management Measures

Heritage sites are fixed features in the environment, occurring within specific spatial confines. Any impact upon them is permanent and non-reversible. Those resources that cannot be avoided and that are directly impacted by the proposed development can be excavated/recorded and a management plan can be developed for future action. Those sites that are not impacted on can be written into the management plan, whence they can be avoided or cared for in the future.

9.1 Objectives

- Protection of archaeological, historical and any other site or land considered being of cultural value within the project boundary against vandalism, destruction and theft.
- The preservation and appropriate management of new discoveries in accordance with the NHRA, should these be discovered during construction activities

The following shall apply:

- Known sites should be clearly marked in order that they can be avoided during construction activities.
- The contractors and workers should be notified that archaeological sites might be exposed during the construction activities.
- Should any heritage artefacts be exposed during excavation, work on the area where the artefacts were discovered, shall cease immediately and the Environmental Control Officer shall be notified as soon as possible;
- All discoveries shall be reported immediately to a heritage practitioner so that an investigation and evaluation of the finds can be made. Acting upon advice from these specialists, the Environmental Control Officer will advise the necessary actions to be taken;
- Under no circumstances shall any artefacts be removed, destroyed or interfered with by anyone on the site; and
- Contractors and workers shall be advised of the penalties associated with the unlawful removal of cultural, historical, archaeological or palaeontological artefacts, as set out in the NHRA (Act No. 25 of 1999), Section 51. (1).

9.2 Control

In order to achieve this, the following should be in place:

- A person or entity, e.g. the Environmental Control Officer, should be tasked to take responsibility for the heritage sites and should be held accountable for any damage.
- Known sites should be located and isolated, e.g. by fencing them off. All construction workers should be informed that these are no-go areas, unless accompanied by the individual or persons representing the Environmental Control Officer as identified above.
- In areas where the vegetation is threatening the heritage sites, e.g. growing trees pushing walls over, it should be removed, but only after permission for the methods proposed has been granted by SAHRA. A heritage official should be part of the team executing these measures.

10. Recommendations and Conclusions

A total of seven sites were recorded during the survey of which three are graveyards (Sites 1, 2 & 4), three are historical structures (Sites 3, 5 & 6) and one is the original farmhouse

complex (Site 7). The sites are probably associated with a late 19th and early 20th phase of occupation as we know the farm was already occupied and owned by 1871. According to the family the farmhouse was built in the 1880s. Site 2 is an older graveyard and probably dates to the late 19th century, but the younger graveyard (Site 2) is a more recent addition, dating to the mid- 20th century. The main farmhouse (Site 7) has been extensively expanded and altered as the original central core is still intact. The original farm sheds and livestock enclosures are still standing and also date to the late 19th century. A blockhouse also farms part of the livestock enclosure walling. The farmhouse is also significant as it was occupied by the British soldiers during the South African War (1899-1902) (Personal Communication: farm owner).

In this regard please note the following proposed mitigation measures:

- Take note of the position of the existing heritage sites;
- A buffer zone of 50 metres should be maintained;
- Care should be taken to prevent any indirect impacts on the historical structures.

No archaeological (both Stone Age and Iron Age) artefacts, assemblages, features, structures or settlements were recorded during the survey of the project footprint. It is well known that Late Iron Age stone-walled settlements do not usually occur in open exposed ridges and low-lying grasslands and floodplains.

	Without mitigation	With mitigation
Construction Phase	•	
Probability	Definite (5)	Very Improbable (1)
Duration	Permanent (5)	Short term (2)
Extent	Limited to the site (1)	Limited to the site (1)
Magnitude	Very High (10)	Minor (2)
Significance of Impact	80 (High)	5 (Low)
Status (positive or negative)	Negative	Positive
Reversibility	Low	Low
Irreplaceable loss of resources?	Yes	None
Cumulative impacts and indirect impacts	s Prospecting phase may cause excessive vibrations.	
Can impacts be mitigated?	Yes, buffer zones (50 metres) prospecting activities.	should be maintained during

 Table 9: Significance of the impact

It is therefore recommended, from a cultural heritage perspective that the proposed prospecting activities may proceed, taking into account the mitigation measures.

Also, please note: Archaeological deposits usually occur below ground level. Should archaeological artefacts or skeletal material be revealed in the area during development activities, such activities should be halted, and a university or museum notified in order for an investigation and evaluation of the find(s) to take place (*cf.* NHRA (Act No. 25 of 1999), Section 36 (6)).

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Archival Documents

Addendum 1: Archaeological and Historical Sequence

The table provides a general overview of the chronological sequence of the archaeological periods in South Africa.

PERIOD	APPROXIMATE DATES
Earlier Stone Age	more than 2 million years ago to >200 000 years ago
Middle Stone Age	<300 000 years ago to >20 000 years ago
Later Stone Age (Includes hunter-gatherer rock art)	<40 000 years ago up to historical times in certain areas
Early Iron Age	c. AD 200 - c. AD 900
Middle Iron Age	c. AD 900 – c. AD 1300
Late Iron Age (Stonewalled sites)	c. AD 1300 - c. AD 1840 (c. AD 1640 - c. AD 1840)

< = less than; > = greater than

Archaeological Context

Stone Age Sequence

Concentrations of Early Stone Age (ESA) sites are usually present on the flood-plains of perennial rivers and may date to over 2 million years ago. These ESA open sites may contain scatters of stone tools and manufacturing debris and secondly, large concentrated deposits ranging from pebble tool choppers to core tools such as handaxes and cleavers. The earliest hominins who made these stone tools, probably not always actively hunted, instead relying on the opportunistic scavenging of meat from carnivore fill sites.

Middle Stone Age (MSA) sites also occur on flood plains, but are also associated with caves and rock shelters (overhangs). Sites usually consist of large concentrations of knapped stone flakes such as scrapers, points and blades and associated manufacturing debris. Tools may have been hafted but organic materials, such as those used in hafting, seldom preserve. Limited drive-hunting activities are also associated with this period.

Sites dating to the Later Stone Age (LSA) are better preserved in rock shelters, although open sites with scatters of mainly stone tools can occur. Well-protected deposits in shelters allow for stable conditions that result in the preservation of organic materials such as wood, bone, hearths, ostrich eggshell beads and even bedding material. By using San (Bushman) ethnographic data a better understanding of this period is possible. South African rock art is also associated with the LSA.

The following chronological sequence was recently established by prominent Stone Age archaeologists (Lombard et al 2012):

Later Stone Age

• Age Range: recent to 20-40 thousand years ago

• General characteristics: expect variability between assemblages, a wide range of formal tools, particularly scrapers (microlithic and macrolithic), backed artefacts, evidence of hafted stone and bone tools, borers, bored stones, upper and lower grindstones, grooved stones, ostrich eggshell (OES) beads and other orna ments, undecorated/decorated OES fragments, flasks/flask fragments, bone tools (sometimes with decoration), fishing equipment, rock art, and ceramics in the final phase.

• Ceramic or Final Later Stone Age

- Generally < 2 thousand years ago
- MIS 1
- Contemporaneous with, and broadly similar to, final Later Stone Age, but includes ceramics
- Economy may be associated with hunter-gatherers or herders

Technological characteristics

- Stone tool assemblages are often microlithic
- In some areas they are dominated by long end scrapers and few backed microliths; in others formal tools are absent or rare
- Grindstones are common, ground stone artefacts, stone bowls and boat-shaped grinding grooves may occur
- Includes grit- or grass-tempered pottery
- Ceramics can be coarse, or well-fired and thin-walled; some times with lugs, spouts and conical bases; sometimes with decoration; sometimes shaped as bowls
- Ochre is common
- Ostrich eggshell (OES) is common
- Metal objects, glass beads and glass artefacts also occur

• Final Later Stone Age

- 100 4000 years ago
- MIS 1
- Hunter-gatherer economy

Technological characteristics

- Much variability can be expected
- Variants include macrolithic (similar to Smithfield [Sampson 1974]) and/or microlithic (similar to Wilton) assemblages
- Assemblages are mostly informal (Smithfield)
- Often characterised by large untrimmed flakes (Smithfield)
- Sometimes microlithic with scrapers, blades and bladelets, backed tools and adzes (Wilton-like)
- Worked bone is common
- OES is common
- Ochre is common
- Iron objects are rare
- Ceramics are absent

• Wilton

- 4000 8000 years ago
- MIS 1

• At some sites continues into the final Later Stone Age as regional variants (e.g. Wilton Large Rock Shelter and Cave James)

Technological characteristics

- Fully developed microlithic tradition with numerous formal tools
- Highly standardised backed microliths and small convex scrapers (for definition
- of standardisation see Eerkens & Bettinger 2001)
- OES is common
- Ochre is common
- Bone, shell and wooden artefacts occur

• Oakhurst

- 7000 12 000 years ago
- MIS 1
- Includes Albany, Lockshoek and Kuruman as regional variants

Technological characteristics

- Flake based industry
- Characterised by round, end, and D-shaped scrapers and adzes
- Wide range of polished bone tools
- Few or no microliths

• Robberg

- 12 000 to 18 000 years ago
- MIS 2

Technological characteristics

- Characterised by systematic bladelet (<26mm) production and the occurance of outils ecailles or scaled pieces
- Significant numbers of unretouched bladelets and bladelet cores
- Few formal tools
- Some sites have significant macrolithic elements

• Early Late Stone Age

- 18 000 40 000 years ago
- MIS 2-3
- Informal designation
- Also known as transitional MSA-LSA
- Overlapping in time with final Middle Stone Age

Technological Characteristics

- Characterised by unstandardised, often microlithic, pieces and includes the bipolar technique
- Described at some sites, but not always clear whether assemblages represent a real archaeological phase or a mixture of LSA/MSA artefacts

Middle Stone Age

• Age Range: 20 000 – 30 000 years ago

- General characteristics: Levallois or prepared core techniques (for definitions see Van Peer 1992; Boeda 1995; Pleurdeau 2005) occur in which triangular flakes with convergent dorsal scars, often with faceted striking platforms, are produced. Discoidal systems (for definition see Inizan et al. 1999) and intentional blade production from volumetric cores (for definition see Pleurdeau 2005) also occur; formal tools may include unifacially and bifacially retouched points, backed artefacts, scrapers, and denticulates (for definition see Bisson 2000); evidence of hafted tools; occasionally includes marine shell beads, bone points, engraved ochre nodules, engraved OES fragments, engraved bone fragments, and grindstones.
- In the sequence below we highlight differences or characteristics that may be used to refine interpretations depending on context.

• Final Middle Stone Age

- \circ 20 000 40 000 years ago
- o MIS 3
- o Informal designation partly based on the Sibudu sequence

Technological characteristics

- Characterised by high regional variability that may include, e.g. bifacial tools, bifacially retouched points, hollow-based points
- Triangular flake and blade industries (similar to Strathalan and Melikane)
- Small bifacial and unifacial points (similar to Sibudu and Rose Cottage Cave)
- Sibudu point characteristics: short, stout, lighter in mass com pared to points from the Sibudu technocomplex, but heavier than those from the Still Bay
- Can be microlithic
- Can include bipolar technology
- Could include backed geometric shapes such as segments, as well as side scrapers

Sibudu

- 45 000 58 000 years ago
- MIS 3
- Previously published as informal late Middle Stone Age and post-Howieson's Poort at Sibudu
- Formerly known post-Howieson's Poort, MSA 3 generally, and MSA III at Klasies River

Technological characteristics

- Most points are produced using Levallois technique
- Most formal retouch aimed at producing unifacial points
- Sibudu unifacial point (type fossil) characteristics: faceted platform; shape is somewhat elongated with a mean length of 43.9 mm), a mean breadth of 26.8 mm and mean thickness of 8.8 mm (L/B ratio 1.7); their mean mass is 11.8 g (Mohapi, 2012)
- Some plain butts
- Rare bifacially retouched points
- Some side scrapers are present
- Backed pieces are rare
- Howieson's Poort
- 58 000 66 000 years ago
- MIS 3-4

Technological characteristics

- Characterised by blade technology
- Includes small (<4 cm) backed tools, e.g. segments, scrapers, trapezes and backed blades
- Some denticulate blades
- Pointed forms are rare or absent
- Still Bay
 - \circ 70 000 77 000 years ago
 - MIS 4-5a

Technological characteristics

- Characterised by thin (<10 mm), bifacially worked foliate or lanceolate points
- Semi-circular or wide-angled pointed butts
- Could include blades and finely serrated points (Lombard et al. 2010)
- Pre-Still Bay
 - \circ 72 000 96 000 years ago
 - o MIS 4-5

Technological characteristics

- Characteristics currently being determined / studied
- Mossel Bay
 - o 77 000 to -105 000 years ago
 - o MIS 5a-4
 - o Also known as MSA II at Klasies River or MSA 2b generally

Technological characteristics

- Characterised by recurrent unipolar Levallois point and blade reduction
- Products have straight profiles; percussion bulbs are prominent and often splintered or ring-cracked
- Formal retouch is infrequent and restricted to sharpening the tip orshaping the butt
- Klasies River

 - o MIS 5d-5e
 - o Also referred to as MSA I at Klasies River or MSA 2a generally

Technological characteristics

- Recurrent blade and convergent flake production
- End products are elongated and relatively thin, often with curved profiles
- Platforms are often small with diffused bulbs
- Low frequencies of retouch
- Denticulate pieces
- Early Middle Stone Age
 - Suggested age MIS 6 to MIS 8 (130 000 to -300 000 years ago)
 - o Informal designation

Technological characteristics

- This phase needs future clarification regarding the designation of cultural material and sequencing
- Includes discoidal and Levallois flake technologies, blades from volumetric cores and a generalised toolkit

• Earlier Stone Age

- Age range: >200 000 to 2 000 000 years ago
- General characteristics: early stages include simple flakes struck from cobbles, core and pebble tools; later stages include intentionally shaped handaxes, cleavers and picks; final or transitional stages have tools that are smaller than the preceding stages and include large blades.
- In the sequence below we highlight differences or characteristics that may be used to refine interpretations depending on context.

• ESA-MSA transition

- 200 to —600 thousand years ago
- MIS 7-15

Technological characteristics

- Described at some sites as Fauresmith or Sangoan
- Relationships, descriptions, issues of mixing and ages yet to be clarified
- Fauresmith assemblages have large blades, points, Levallois technology, and the remaining ESA components have small bifaces
- The Sangoan contains small bifaces (<100 mm), picks, heavy and light-duty denticulated and notched scrapers
- The Sangoan is less well described than the Fauresmith

• Acheulean

- \circ 300 thousand to -1.5 million years ago
- o MIS 8-50

Technological characteristics

- Bifacially worked handaxes and cleavers, large flakes > 10 cm
- Some flakes with deliberate retouch, sometimes classified as scrapers
- Gives impression of being deliberately shaped, but could indicate result of knapping strategy
- Sometimes shows core preparation
- Generally found in disturbed open-air locations
- Oldowan
 - \circ 1.5 to >2 million years ago
 - MIS 50-75

Technological characteristics

- Cobble, core or flake tools with little retouch and no flaking to predetermined patterns
- Hammerstones, manuports, cores
- Polished bone fragments/tools

Iron Age Sequence

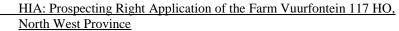
In the northern regions of South Africa at least three settlement phases have been distinguished for early prehistoric agropastoralist settlements during the **Early Iron Age** (EIA). Diagnostic pottery assemblages can be used to infer group identities and to trace movements across the landscape. The first phase of the Early Iron Age, known as **Happy Rest** (named after the site where the ceramics were first identified), is representative of the Western Stream of migrations, and dates to AD 400 - AD 600. The second phase of **Diamant** is dated to AD 600 - AD 900 and was first recognized at the eponymous site of Diamant in the western Waterberg. The third phase, characterised by herringbone-decorated pottery of the **Eiland** tradition, is regarded as the final expression of the Early Iron Age (EIA) and occurs over large parts of the North West Province, Northern Province, Gauteng and Mpumalanga. This phase has been dated to about AD 900 - AD 1200. These sites are usually located on low-lying spurs close to water.

The Late Iron Age (LIA) settlements are characterised by stone-walled enclosures situated on defensive hilltops c. AD 1640 - AD 1830). This occupation phase has been linked to the arrival of ancestral Northern Sotho, Tswana and Ndebele (Nguni–speakers) in the northern regions of South Africa with associated sites dating between the sixteenth and seventeenth centuries AD. The terminal LIA is represented by late 18th/early 19th century settlements with multichrome Moloko pottery commonly attributed to the Sotho-Tswana. These settlements can in many instances be correlated with oral traditions on population movements during which African farming communities sought refuge in mountainous regions during the processes of disruption in the northern interior of South Africa, resulting from the so-called difaqane (or mfecane).

Ethno-historical Context

Difaqane (mfecane)

The period of upheaval known as the Difagane (Mfecane) had widespread implications for the northern interior of South Africa. Mzilikazi, one of the generals of King Shaka of the Zulu kingdom left KwaZulu-Natal in 1820 and took his Khumalo clan north-westward on a journey which changed the face of the South African interior. He first reached to Pedi people north of the Olifants and Steelpoort Rivers and took over their land. A year later and after a lengthy sojourn the group arrived at the slopes of the Magaliesberg Mountains in the Pretoria area in about 1827. Mzilikazi established two military kraal or capitals. The one was situated on the Apies River called enDinaneni which was situated north-west of Pretoria on the road to Hartebeespoort Dam and enKungweni which was built along the Daspoort range of hills. His main residence was on the south side of Meintjieskop, but he later moved to the north of the Magaliesberg Mountains, to a place named emHlahlandlela. This aggressive occupation of the land forced the local Ndebele (Ndzundza) groups to scatter and hide in mountainous areas. Later during the 1830s Mzilikazi moved further west to establish a capital at Gabeni, north of Zeerust where he subjugated various Sotho Tswana groups in the area. His power was only challenged in 1837 by a combined Boer, Tswana and Griqua force. Mzilikazi later migrated into Zimbabwe and established his next capital, Bulawayo (Rasmussen 1977).



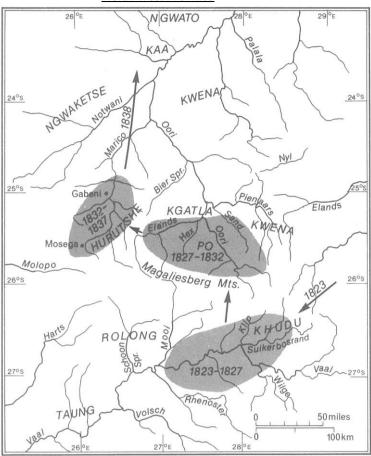


Figure 30: The location of the major spheres of influence of Mzilikazi from the early 1820s to late 1830s

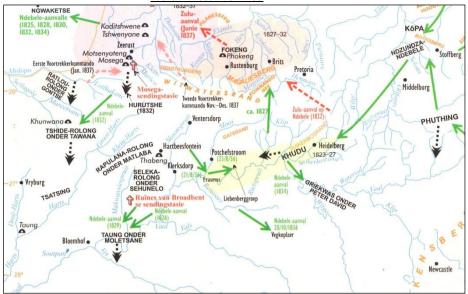


Figure 31: Movement of Mzilikazi's wariors relative to the survey area around Schweizer-Reneke (after Bergh 1998)

Schweizer-Reneke

In the early 1880s, the indigenous Koranas of Chief Mossweu (also known as David Massouw by the early white farmers) occupied the hill Mamusa on the banks of the Harts River. Competing for natural resources (grazing and firewood) were the Thlaping Tswana of Chief Mankurwane who occupied the region between the Vaal and the Harts River. This area was also known as Mamusa. In the war that resulted from this competition, both sides had enlisted the aid of White mercenaries. Approximately 300 Boers supported Mossweu and the British supported Chief Mankurwane. Through various skirmishes Mankurwane was forced to sign a treaty on 26 July 1882 with the result that Chief Mossweu honoured his promise of giving land to the Boers who supported him. Farms were laid out during September 1882 starting from Vryburg. This eventually resulted in the establishment of the Boer Republic of Stellaland in 1883. The town Schweizer-Reneke which was founded on 1 October 1888 is named after Captain C.A. Schweizer and Field Cornet C.M. Reneke, both of whom died during one of the decisive battles of the war (Bergh 1998:244-245; www.sahistory.org.za).

Hendrik Willem Lock was then one of the Boers who received a farm for his part in the battle. As a result Maroetjiesfontein 135 (Maraetchesfontein 54 HO) (size 744 morgen or 637 hectares) was given to him as compensation for his part in the war. The Title Deed was registered in both Lock and Lodewyk Johannes Roos' name and later divided into portions (Boschkop). Hendrik Willem Lock arrived in the region in 1870 and was of German descent. His son Jacobus Coenraad Lock, also farmed in the area. Today the fifth generation Lock family members are still farming on some of the original farms in the area (Koos Lock Pers Comm.).

The occupation of the larger geographical region took place since Early Stone Age, especially in the region of the Vaal River. However, the biggest legacy dating to the Stone Age are the numerous sites with rock engravings found in the area. This is substantiated by the surrounding land owners who confirmed the occurrence of the drawings on their farms in the region. Some of the farms in the Christiana region are also known to have rock engravings such as on Townlands and Twaalfkameelbomen. As yet, no sites dating to the Early Iron Age have been reported from the region and most sites date to the Late Iron Age. According to Breutz (1959) stone walled sites dating to the Late Iron Age and which can be linked to the Tswana occupation of the area, are found on a number of farms in the region, e.g. Waai Hoek and Brul Pan. However, the historic most important one, named Dithakong, is located some distance to the north-west. This site was first visited by early travellers such as Lichtenstein and John Campbell in the early part of the 19th century.

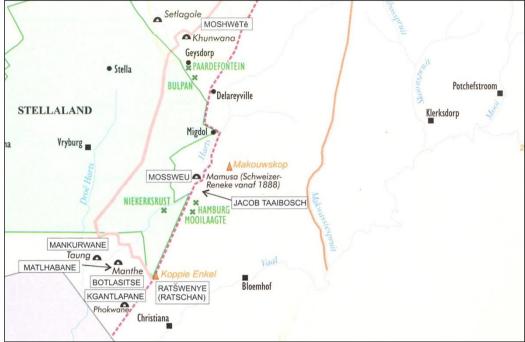


Figure 32: Schweizer-Reneke with Mossweu's stronghold at Mamusa Hill (after Bergh 1998)

Bloemhof

The town of Bloemhof, situated next to the Vaal River, was established on the farm Klipfontein in March 1866. The farm belonged to John Barclay who laid out the town on his farm and named it after a garden of flowers made by his daughter. A ferry (pontoon) provided access across the Vaal River to the town. It has been administered by a village council since 1917.

Wolmaransstad

The town is situated in the valley of the Makwassi River. In 1876 a trader Thomas Leask opened a store at the site. On 16 October 1891 a town was established there and named after JMA Wolmarans, a member of the Executive Council of the South Africa.

South African War (1899-1902)

Lord Roberts started a major northward drive with a force of 100 000 men from Bloemfontein towards Schweizer-Reneke on 3 May 1900. The western movement was from Kimberley along the railway line reaching Vryburg and Mahikeng. A British force reached Vryburg on 9 May 1900 and achieved the relief of Mahikeng on 17 May 1900. On 26 May 1900 Lt-Gen. A Hunter set out from Vvryburg towards Lichtenburg, via Schweizer-Reneke, which was not defended and reached some days later. Hunter left a small garrison of 250 men at Schweizer-Reneke and proceeded northwards. The garrison consisted of SomersetLight Infantry, First Highland Light Infantry, Royal Army Medical Corps, Royal Artillery and Yorkshire Light Infantry. During this time burgers of the Bloemhof district organised with Coetzee, FP

resulted in the siege of Schweizer-Reneke on 19 August 1900 by Genl. JA Van Zyl. The British occupied Massouw's Hill outside the town and Van Zyl did not attack the fortifications. Lord Methuen sent 300 mounted men from Ottoshoop to relief the soldiers of the siege on 10 September 1900. Most of the burger forces fled but 28 men who were under Commandant Tolly de Beer, were taken prisoner. Several skirmishes followed and 2 November 1900 Col. Western sent word that the burgers were back. Late in November a supply convoy arrived under Lt-Col RL Milne with 450 men. They were constantly harassed by the burgers. The last day of the occupation was 11 January 1901 (Birkhead & Groenewald 2005).



Figure 33: Massouw's Hill occupied by British forces during the Siege of Schweizer-Reneke in 1900

North West Province Addendum 2: Description of the Recorded Sites

A system for grading the significance of heritage sites was established by the NHRA (Act No. 25 of 1999) and further developed by the South African Heritage Resources Agency (SAHRA 2007) and has been approved by ASAPA for use in southern Africa and was utilised during this assessment.

A. GENERAL SITE DI	ESCRIPTION				
Site type	Graveyard				
Site Period	Mid 20 th century				
Physical description	The site comprises a graveyard which consists of at least 2 graves. The graves were				
	Ine site comprises a graveyard which consists of at least 2 graves. The graves were located by their cement headstones. The graves have an east-west orientation with the headstone on the western side. The graves do not have inscriptions. Please note that unmarked graves are by default regarded as older than 60 years and are therefore protected by the NHRA (Act No 25 of 1999, Section 36).				with the ote that
Integrity of deposits or structures	Stable				
Site extent	5 m x 5 m				
B. SITE EVALUATIO					
B1. HERITAGE VALU				Yes	No
Historic Value				105	110
	community or pattern of South Africa's	history or precol	onial history		X
	association with the life or work of a				X
importance in the history		- F, 8F -	8		
	ng to the history of slavery in South Afr	ica.			X
Aesthetic Value	C i i				•
It has importance in	exhibiting particular aesthetic chara	cteristics valued	by a particular		Х
community or cultural gr	coup.				
Scientific Value					
	information that will contribute to an	n understanding o	of South Africa's		Х
natural and cultural herit					
	emonstrating a high degree of creati	ve or technical a	achievement at a		X
particular period.		1 1 0	. 11 1		V
	e wider understanding of the tempor	al change of cu	tural landscapes,		Х
settlement patterns and h Social Value	uman occupation.				
	association with a particular commu	nity or cultural	group for social	X	
cultural or spiritual reaso		inity of cultural	group for social,	Λ	
Tourism Value	sense of place).				
	gh its contribution towards the promoti	on of a local soci	ocultural identity		X
and can be developed as					
Rarity Value					
It possesses unique, uncommon, rare or endangered aspects of South Africa's natural or cultural			atural or cultural		Х
heritage.					
Representative Value					
It is importance in demonstrating the principle characteristics of a particular class of South			r class of South		Х
Africa's natural or cultur	1 5				
B2. REGIONAL CONT					
Other similar sites in the				X	
C. SPHERE OF SIGNIFICANCE High Medium					ow V
International			V		X
National Provincial			X X		
Local		X	Λ		
Specific community		X X			
Specific community A					

D. FIELD REGISTER RATING	
National/Grade 1 [should be registered, retained]	
Provincial/Grade 2 [should be registered, retained]	
Local/Grade 3A [should be registered, mitigation not advised]	
Local/Grade 3B [High significance; mitigation, partly retained]	
Generally Protected A [High/Medium significance, mitigation]	X
Generally protected B [Medium significance, to be recorded]	
Generally Protected C [Low significance, no further action]	
E. GENERAL STATEMENT OF SITE SIGNIFICANCE	
Low	
Medium	
High	X
F. RATING OF POTENTIAL IMPACT OF DEVELOPMENT	
None	X
Peripheral	
Destruction	
Uncertain	
	·

G. RECOMMENDED MITIGATION

- Maintain a buffer zone of 50 metres during prospecting phase
- The graveyard should be fenced off and a gate installed

H. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- National Heritage Resources Act (Act No. 25 of 1999, Section 36)
- Regulations Relating to the Management of Human Remains, in terms of the National Health Act No. 61 of 2003
- Removal of Graves and Dead Bodies Ordinance (Ordinance No. 7 of 1925)
- Ordinance on Exhumations (Ordinance No. 12 of 1980)
- Local and regional provisions, laws and by-laws

I. PHOTOGRAPHS



Figure 34: General view of some of the grave headstones

A. GENERAL SITE DESCRIPTION				
Site type	Graveyard			
Site Period	Late 20 th century			
Physical description	The site comprises a graveyard which consists of at least 10 graves. Most of the graves were constructed with packed stone slab bases and stone headstones. The graves have an east-west orientation with the headstone on the western side. Most of the graves do not have inscriptions. Please note that unmarked graves are by default regarded as older than 60 years and are therefore protected by the NHRA (Act No 25 of 1999, Section 36).			

			he Farm Vuurfonte	111 11 / 1	<u>10,</u>
	North West Province				
	The following inscriptions were rec				
	• Pieter De Larey Swart (Bo				
	Hendrik Johan Smith (Bor	m?: 1855; Died?: 19	01)		
Integrity of deposits	Stable				
or structures					
Site extent	15 m x 15 m				
B. SITE EVALUATIO	N				
B1. HERITAGE VALU	JE			Yes	No
Historic Value					
It has importance to the	community or pattern of South Africa	a's history or precol	onial history.		Х
It has strong or special	association with the life or work o	f a person, group of	or organisation of		Х
importance in the history	of South Africa.		-		
It has significance relation	ng to the history of slavery in South A	Africa.			Х
Aesthetic Value				•	
It has importance in	exhibiting particular aesthetic cha	racteristics valued	by a particular		Х
community or cultural g			•		
Scientific Value	•				
It has potential to yield	information that will contribute to	an understanding	of South Africa's		Х
natural and cultural herit		C			
	emonstrating a high degree of creater	ative or technical	achievement at a		X
particular period.			· ····		1
	e wider understanding of the temp	oral change of cu	ltural landscapes,		Х
settlement patterns and h	U	U	1 /		
Social Value	*			1	1
	association with a particular com	munity or cultural	group for social.	Х	
cultural or spiritual reaso			8,		
Tourism Value					
	gh its contribution towards the prom	otion of a local soc	iocultural identity		Х
and can be developed as					
Rarity Value					
TE DUBBERSON UTITULE. UTIE	ommon, rare or endangered aspects	of South Africa's 1	natural or cultural		X
	ommon, rare or endangered aspects	of South Africa's 1	natural or cultural		X
heritage.	ommon, rare or endangered aspects	of South Africa's n	natural or cultural		X
heritage. Representative Value					
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heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON	nonstrating the principle characteri ral places or objects. TEXT			X	
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the	nonstrating the principle characteri ral places or objects. TEXT regional landscape.	stics of a particula	ur class of South	X	X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGN	nonstrating the principle characteri ral places or objects. TEXT regional landscape.			L	
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International	nonstrating the principle characteri ral places or objects. TEXT regional landscape.	stics of a particula	r class of South Medium	L	X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGN International National	nonstrating the principle characteri ral places or objects. TEXT regional landscape.	stics of a particula	r class of South Medium X	L	
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial	nonstrating the principle characteri ral places or objects. TEXT regional landscape.	stics of a particula	r class of South Medium	L	
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local	nonstrating the principle characteri ral places or objects. TEXT regional landscape.	stics of a particula High	r class of South Medium X	L	
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE	stics of a particula	r class of South Medium X	L	
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE RATING	stics of a particula High	r class of South Medium X	L	
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGN International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should	nonstrating the principle characteri al places or objects. TEXT regional landscape. FICANCE RATING l be registered, retained]	stics of a particula High	r class of South Medium X	L	
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON' Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should	nonstrating the principle characteri al places or objects. TEXT regional landscape. FICANCE RATING l be registered, retained] ild be registered, retained]	stics of a particula High	r class of South Medium X	L	X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON' Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should	nonstrating the principle characteri al places or objects. TEXT regional landscape. FICANCE RATING I be registered, retained] ild be registered, retained] be registered, mitigation not advised	stics of a particula High X X X]	r class of South Medium X	L	X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should Local/Grade 3B [High si	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE RATING I be registered, retained] Id be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine	stics of a particula High X X X] d]	r class of South Medium X		X Now X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE RATING I be registered, retained] ild be registered, retained] be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine figh/Medium significance, mitigation	stics of a particula High X X X] d]	r class of South Medium X		
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally protected B [N]	nonstrating the principle characteri ral places or objects. FEXT regional landscape. FICANCE RATING I be registered, retained] Id be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine High/Medium significance, mitigation Aedium significance, to be recorded]	stics of a particula High X X X] d]	r class of South Medium X		X Now X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally Protected C [I	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE BATING 1 be registered, retained] 1d be registered, retained] 1d be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine figh/Medium significance, mitigation Addium significance, to be recorded] .ow significance, no further action]	stics of a particula High X X X] d]	r class of South Medium X		X Now X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON' Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally Protected B [M Generally Protected C [I E. GENERAL STATE	nonstrating the principle characteri ral places or objects. FEXT regional landscape. FICANCE RATING I be registered, retained] Id be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine High/Medium significance, mitigation Aedium significance, to be recorded]	stics of a particula High X X X] d]	r class of South Medium X		X Now X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON' Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally Protected B [M Generally Protected C [I E. GENERAL STATE] Low	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE BATING 1 be registered, retained] 1d be registered, retained] 1d be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine figh/Medium significance, mitigation Medium significance, to be recorded] .ow significance, no further action]	stics of a particula High X X X] d]	r class of South Medium X		X Now X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally Protected B [M Generally Protected C [I E. GENERAL STATE] Low Medium	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE BATING 1 be registered, retained] 1d be registered, retained] 1d be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine figh/Medium significance, mitigation Medium significance, to be recorded] .ow significance, no further action]	stics of a particula High X X X] d]	r class of South Medium X		X X X X X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally Protected C [I E. GENERAL STATE Low Medium High	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE RATING I be registered, retained] Id be registered, retained] be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine High/Medium significance, mitigation Medium significance, to be recorded] low significance, no further action] MENT OF SITE SIGNIFICANCE	stics of a particula High X X A A A A A A A A A A A A A A A A A	r class of South Medium X		X Now X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally Protected A [I Generally Protected C [I E. GENERAL STATE Low Medium High F. RATING OF POTE	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE BATING 1 be registered, retained] 1d be registered, retained] 1d be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine figh/Medium significance, mitigation Medium significance, to be recorded] .ow significance, no further action]	stics of a particula High X X A A A A A A A A A A A A A A A A A	r class of South Medium X		X X X X X X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should Local/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally Protected C [I E. GENERAL STATE] Low Medium High F. RATING OF POTE None	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE RATING I be registered, retained] Id be registered, retained] be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine High/Medium significance, mitigation Medium significance, to be recorded] low significance, no further action] MENT OF SITE SIGNIFICANCE	stics of a particula High X X A A A A A A A A A A A A A A A A A	r class of South Medium X		X X X X X
heritage. Representative Value It is importance in der Africa's natural or cultur B2. REGIONAL CON Other similar sites in the C. SPHERE OF SIGNI International National Provincial Local Specific community D. FIELD REGISTER National/Grade 1 [should Provincial/Grade 2 [should Local/Grade 3A [should Local/Grade 3B [High si Generally Protected A [I Generally Protected A [I Generally Protected C [I E. GENERAL STATE Low Medium High F. RATING OF POTE	nonstrating the principle characteri ral places or objects. TEXT regional landscape. FICANCE RATING I be registered, retained] Id be registered, retained] be registered, retained] be registered, mitigation not advised gnificance; mitigation, partly retaine High/Medium significance, mitigation Medium significance, to be recorded] low significance, no further action] MENT OF SITE SIGNIFICANCE	stics of a particula High X X A A A A A A A A A A A A A A A A A	r class of South Medium X		X X X X X X

Uncertain

G. RECOMMENDED MITIGATION

- Maintain a buffer zone of 50 metres during prospecting phase
- The graveyard should be fenced off and a gate installed

H. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- National Heritage Resources Act (Act No. 25 of 1999, Section 36)
- Regulations Relating to the Management of Human Remains, in terms of the National Health Act No. 61 of 2003
- Removal of Graves and Dead Bodies Ordinance (Ordinance No. 7 of 1925)
- Ordinance on Exhumations (Ordinance No. 12 of 1980)
- Local and regional provisions, laws and by-laws

I. PHOTOGRAPHS



Figure 35: General view of some of the graves

A. GENERAL SITE DI	ESCRIPTION				
Site type	Historical Structure				
Site Period	Late 19 th century				
Physical description	The site comprises a single room square historical structure built with stone. The structure is roughly 4 m in width and 6 m in length. The walling is approximately 0.8 metres in height. No other structures or middens were recorded in association.				
Integrity of deposits	Unstable				
or structures					
Site extent	4 m x 6 m				
B. SITE EVALUATIO			-		
B1. HERITAGE VALU	JE	Yes	No		
Historic Value					
It has importance to the c	community or pattern of South Africa's history or precolonial history.		Х		
It has strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa.			X		
It has significance relating	g to the history of slavery in South Africa.		Х		
Aesthetic Value	* • •		•		
It has importance in community or cultural gr	exhibiting particular aesthetic characteristics valued by a particular oup.		X		
Scientific Value	A				
It has potential to yield natural and cultural herit	information that will contribute to an understanding of South Africa's age.		X		
It has importance in de particular period.	emonstrating a high degree of creative or technical achievement at a		Х		

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It has importance to the wider understanding of the ter		ultural landscapes		X
settlement patterns and human occupation.	inportar change of et	inturur rundscupes,		11
Social Value				
It has strong or special association with a particular co	mmunity or cultural	group for social		Х
cultural or spiritual reasons (sense of place).	initiality of cultural	group for social,		Δ
Tourism Value				
It has significance through its contribution towards the pro	motion of a local so	ciocultural identity		Х
and can be developed as tourist destination.	motion of a local soc	clocultural identity		1
Rarity Value				
It possesses unique, uncommon, rare or endangered aspec	ts of South Africa's	natural or cultural		Х
heritage.	is of South Africa's	natural of cultural		Λ
Representative Value				
It is importance in demonstrating the principle character	ristics of a particul	or along of South		X
Africa's natural or cultural places or objects.	a particul	ai class of South		Λ
B2. REGIONAL CONTEXT				
			X	
Other similar sites in the regional landscape.	TT! - L	Mallana		_
C. SPHERE OF SIGNIFICANCE International	High	Medium	Low	_
			X	
National			X	
Provincial			X	
Local			X	
Specific community			Х	
D. FIELD REGISTER RATING				
National/Grade 1 [should be registered, retained]				
Provincial/Grade 2 [should be registered, retained]				
Local/Grade 3A [should be registered, mitigation not advise				
Local/Grade 3B [High significance; mitigation, partly retain				
Generally Protected A [High/Medium significance, mitigati				
Generally protected B [Medium significance, to be recorded				
Generally Protected C [Low significance, no further action]			Х	
E. GENERAL STATEMENT OF SITE SIGNIFICANC	E			
Low			Х	
Medium				
High				
F. RATING OF POTENTIAL IMPACT OF DEVELOP	MENT			
None			Х	
Peripheral				
Destruction				
Uncertain				
G. RECOMMENDED MITIGATION				
• A buffer zone of 50 metres should be maintained a	long the structure			
H. APPLICABLE LEGISLATION AND LEGAL REQU				
• National Heritage Resources Act (Act No. 25 of 1)	999, Section 34)			

I. PHOTOGRAPHS



A. GENERAL SITE DI	ESCRIPTION				
Site type	Graveyard				
Site Period	Late 20 th century				
Physical description	 The site comprises a family graveyard which consists of at least 2 graves. demarcated with granite bases and headstones. The graves have an east-we with the headstone on the western side. The following inscriptions were recorded: Hendrik Willem Johannes Kotze (Born: 06/12/1906; Died: 04/06) Elsie Maria Deysel (nee Badenhorst) (Born: 17/04/1960; Died: 22) 	vest orio /1985	entation		
Integrity of deposits	Stable				
or structures	15 150				
Site extent	15 m x 150 m				
B. SITE EVALUATIO					
B1. HERITAGE VALU	JE	Yes	No		
Historic Value			V		
	community or pattern of South Africa's history or precolonial history.		X		
importance in the history	association with the life or work of a person, group or organisation of		Х		
	g to the history of slavery in South Africa.		X		
Aesthetic Value	g to the history of slavery in South Arrea.		Λ		
It has importance in exhibiting particular aesthetic characteristics valued by a particular			X		
community or cultural gr					
Scientific Value			4		
It has potential to yield natural and cultural herit	information that will contribute to an understanding of South Africa's age.		X		
It has importance in de	emonstrating a high degree of creative or technical achievement at a		Х		
particular period.					
It has importance to th settlement patterns and h	e wider understanding of the temporal change of cultural landscapes, uman occupation.		Х		
Social Value					
It has strong or special cultural or spiritual reaso	association with a particular community or cultural group for social, ons (sense of place).	Х			
Tourism Value					
	gh its contribution towards the promotion of a local sociocultural identity		X		
and can be developed as	tourist destination.				
Rarity Value			1		
heritage.	ommon, rare or endangered aspects of South Africa's natural or cultural		X		
Representative Value					
It is importance in der	nonstrating the principle characteristics of a particular class of South		Х		

Africa's natural or cultural places or objects. B2. REGIONAL CONTEXT			
B2. REGIONAL CONTEXT			
Other similar sites in the regional landscape.			X
C. SPHERE OF SIGNIFICANCE	High	Medium	Low
International			X
National		Х	
Provincial		Х	
Local	Х		
Specific community	Х		
D. FIELD REGISTER RATING			
National/Grade 1 [should be registered, retained]			
Provincial/Grade 2 [should be registered, retained]			
Local/Grade 3A [should be registered, mitigation not advised]			
Local/Grade 3B [High significance; mitigation, partly retained]			
Generally Protected A [High/Medium significance, mitigation]			Х
Generally protected B [Medium significance, to be recorded]			
Generally Protected C [Low significance, no further action]			
E. GENERAL STATEMENT OF SITE SIGNIFICANCE			
Low			
Medium			
High			X
F. RATING OF POTENTIAL IMPACT OF DEVELOPME	ENT		-
None			X
Peripheral			
Destruction			
Uncertain			
G. RECOMMENDED MITIGATION			
Maintain a buffer zone of 50 metres during prospectin	01		
• The graveyard should be fenced off and a gate installe	ed		
H. APPLICABLE LEGISLATION AND LEGAL REQUIR			
National Heritage Resources Act (Act No. 25 of 1999)	, Section 36)		

- Regulations Relating to the Management of Human Remains, in terms of the National Health Act No. 61 of 2003
- Removal of Graves and Dead Bodies Ordinance (Ordinance No. 7 of 1925)
- Ordinance on Exhumations (Ordinance No. 12 of 1980)
- Local and regional provisions, laws and by-laws

I. PHOTOGRAPHS



Figure 37: General view of the graves

A. GENERAL SITE DI	ESCRIPTION		
Site type	Historical Structure		
Site Period	Late 19 th century		
Physical description	The site comprises a single room square historical structure built w	ith stor	ne. The
,,	structure is roughly 5 m in width and 10 m in length. The walling is app		
	metres in height. No other structures or middens were recorded in associat		
Integrity of deposits	Unstable		
or structures			
Site extent	5 m x 10 m		
B. SITE EVALUATIO		-	
B1. HERITAGE VALU	JE	Yes	No
Historic Value			
	community or pattern of South Africa's history or precolonial history.		X
	association with the life or work of a person, group or organisation of		X
importance in the history			V
Aesthetic Value	ng to the history of slavery in South Africa.		Х
	archibiting norticular anotheric characteristics valued by a norticular		X
community or cultural gr	exhibiting particular aesthetic characteristics valued by a particular		Λ
Scientific Value	oup.		1
	information that will contribute to an understanding of South Africa's		X
natural and cultural herit	•		
It has importance in de	emonstrating a high degree of creative or technical achievement at a		X
particular period.	emonsulating a men degree of ereality of teeminear actionerment as a		
	e wider understanding of the temporal change of cultural landscapes,		X
settlement patterns and h			
Social Value			
It has strong or special	association with a particular community or cultural group for social,		X
cultural or spiritual reaso	ons (sense of place).		
Tourism Value		1	n.
	gh its contribution towards the promotion of a local sociocultural identity		Х
and can be developed as	tourist destination.		
Rarity Value			N
	ommon, rare or endangered aspects of South Africa's natural or cultural		X
heritage. Representative Value			
	nonstrating the principle characteristics of a particular class of South		X
Africa's natural or cultur			Λ
B2. REGIONAL CONT			
Other similar sites in the		Х	
C. SPHERE OF SIGNI	· ·	L	ow
International			X
National			X
Provincial			X
Local			Х
Specific community			X
D. FIELD REGISTER			
National/Grade 1 [should	5		
	Ild be registered, retained]		
	be registered, mitigation not advised]		
	gnificance; mitigation, partly retained]		
	High/Medium significance, mitigation]		
	Iedium significance, to be recorded]		V
	Low significance, no further action]		X
	MENT OF SITE SIGNIFICANCE	-	v
Low Medium			X
wieululli		[

High	
F. RATING OF POTENTIAL IMPACT OF DEVELOPMENT	
None	Х
Peripheral	
Destruction	
Uncertain	

G. RECOMMENDED MITIGATION

• A buffer zone of 50 metres should be maintained along the structure

H. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

• National Heritage Resources Act (Act No. 25 of 1999, Section 34)

I. PHOTOGRAPHS



Figure 38: General view of the western section of the historical structure

A. GENERAL SITE D	ESCRIPTION			
Site type	Historical Structure			
Site Period	Late 19 th century			
Physical description	The site comprises a dam wall constricted of dressed stone blocks. The wall is approximately 15 metres in length with the overflow on the southern side. The dam was constructed in a non-perennial stream and probably dates to the 1890s. Recent floods have damaged one section of the wall and the dam has collapsed.			
Integrity of deposits	Unstable			
or structures Site extent	15 m x 3 m			
B. SITE EVALUATIO				
B1. HERITAGE VALU		Yes	No	
Historic Value		105	110	
It has importance to the	community or pattern of South Africa's history or precolonial history.		X	
It has strong or special	association with the life or work of a person, group or organisation of		Х	
importance in the history	of South Africa.			
It has significance relatir	ng to the history of slavery in South Africa.		Х	
Aesthetic Value				
It has importance in	It has importance in exhibiting particular aesthetic characteristics valued by a particular			
community or cultural gr	oup.			
Scientific Value			_	
It has potential to yield natural and cultural herit	information that will contribute to an understanding of South Africa's age.		X	
It has importance in de	emonstrating a high degree of creative or technical achievement at a		X	

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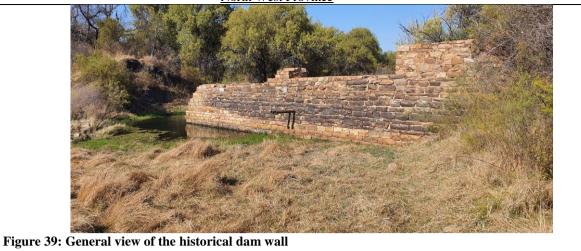
particular period.				
It has importance to the wider understanding of the temporal change of cultural landscapes,				Х
settlement patterns and human occupation.				
Social Value				
It has strong or special association with a particular community or cultural group for social,				Х
cultural or spiritual reasons (sense of place).				
Tourism Value				
It has significance through its contribution towards the promotion of a local sociocultural identity				Х
and can be developed as tourist destination.				
Rarity Value				
It possesses unique, uncommon, rare or endangered aspects of	f South Africa's	natural or cultural		Х
heritage.				
Representative Value				
It is importance in demonstrating the principle characteristi	cs of a particula	ar class of South		Х
Africa's natural or cultural places or objects.				
B2. REGIONAL CONTEXT				
Other similar sites in the regional landscape.			Х	
C. SPHERE OF SIGNIFICANCE	High	Medium	Lo	
International			Χ	K
National			Х	
Provincial			Х	
Local			Х	
Specific community			Χ	K
D. FIELD REGISTER RATING				
National/Grade 1 [should be registered, retained]				
Provincial/Grade 2 [should be registered, retained]				
Local/Grade 3A [should be registered, mitigation not advised]				
Local/Grade 3B [High significance; mitigation, partly retained]				
Generally Protected A [High/Medium significance, mitigation]				
Generally protected B [Medium significance, to be recorded]				
Generally Protected C [Low significance, no further action]			Х	Κ
E. GENERAL STATEMENT OF SITE SIGNIFICANCE				
Low			Х	Κ
Medium				
High				
F. RATING OF POTENTIAL IMPACT OF DEVELOPME	NT			
None			Χ	Κ
Peripheral				
Destruction				
Uncertain				
G. RECOMMENDED MITIGATION				
• A buffer zone of 50 metres should be maintained along	g the structure			

H. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

• National Heritage Resources Act (Act No. 25 of 1999, Section 34)

I. PHOTOGRAPHS

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A. GENERAL SITE DI	ESCRIPTION					
Site type	Historical Farmhouse Complex					
Site Period	Late 19 th century					
Physical description	The site comprises a farmhouse complex dating to the first occupation of the farm probably 1880s. The original farmhouse has been completely rebuilt, extended and altered into a modern house with sections of the original walling still visible. Associated with the farmhouse are livestock enclosures and two stone sheds probably also dating from this period. Also note that a blockhouse used during the Second South African War (1899-1902) is also located as part of the enclosures.					
Integrity of deposits	House is currently occupied and most of the structures are stable.					
or structures	Livestock enclosure (some sections are unstable)					
Site extent	50 m x 40 m					
B. SITE EVALUATIO			T			
B1. HERITAGE VALU	JE	Yes	No			
Historic Value			1			
	community or pattern of South Africa's history or precolonial history.		Х			
It has strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa.			X			
It has significance relating to the history of slavery in South Africa.			X			
Aesthetic Value						
It has importance in exhibiting particular aesthetic characteristics valued by a particular community or cultural group.			X			
Scientific Value			X			
It has potential to yield information that will contribute to an understanding of South Africa's natural and cultural heritage.						
It has importance in demonstrating a high degree of creative or technical achievement at a particular period.						
It has importance to the wider understanding of the temporal change of cultural landscapes, settlement patterns and human occupation.						
Social Value It has strong or special association with a particular community or cultural group for social, cultural or spiritual reasons (sense of place).			X			
Tourism Value	Z L	L	I			
It has significance through its contribution towards the promotion of a local sociocultural identity						
and can be developed as	tourist destination.					
Rarity Value			X			
It possesses unique, uncommon, rare or endangered aspects of South Africa's natural or cultural heritage.						
Representative Value						
It is importance in demonstrating the principle characteristics of a particular class of South X						

North West Hovinee				
Africa's natural or cultural places or objects.				
B2. REGIONAL CONTEXT				
Other similar sites in the regional landscape.			Х	
C. SPHERE OF SIGNIFICANCE	High	Medium	L	ow
International				Х
National			X	
Provincial			X	
Local			X	
Specific community			Х	
D. FIELD REGISTER RATING				
National/Grade 1 [should be registered, retained]				
Provincial/Grade 2 [should be registered, retained]				
Local/Grade 3A [should be registered, mitigation not advised]				
Local/Grade 3B [High significance; mitigation, partly retained]				
Generally Protected A [High/Medium significance, mitigation]				
Generally protected B [Medium significance, to be recorded]				
Generally Protected C [Low significance, no further action]		Х		
E. GENERAL STATEMENT OF SITE SIGNIFICANCE				
Low				Х
Medium				
High				
F. RATING OF POTENTIAL IMPACT OF DEVELOPME	NT			
None				X
Peripheral				
Destruction				
Uncertain				

G. RECOMMENDED MITIGATION

• A buffer zone of 50 metres should be maintained along the structure

H. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

• National Heritage Resources Act (Act No. 25 of 1999, Section 34)

I. PHOTOGRAPHS



Figure 40: Aerial view of the Farmhouse complex

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Figure 41: General view of the block house

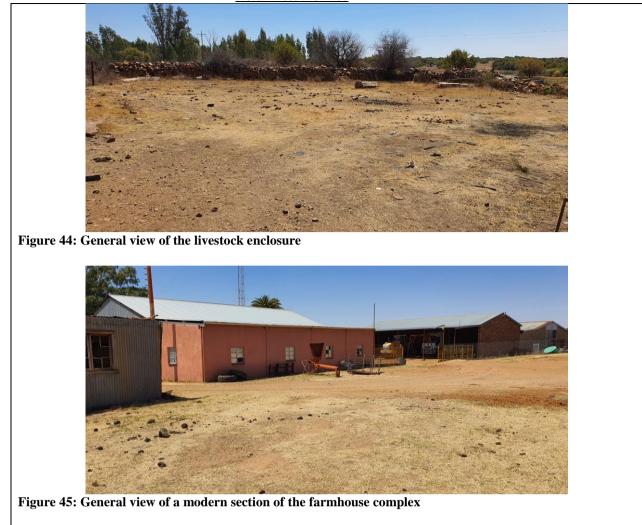


Figure 42: General view of the dressed stone sheds



Figure 43: General view of a section of the livestock enclosure with feeding trough

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HIA: Prospecting Right Application of the Farm Vuurfontein 117 HO,

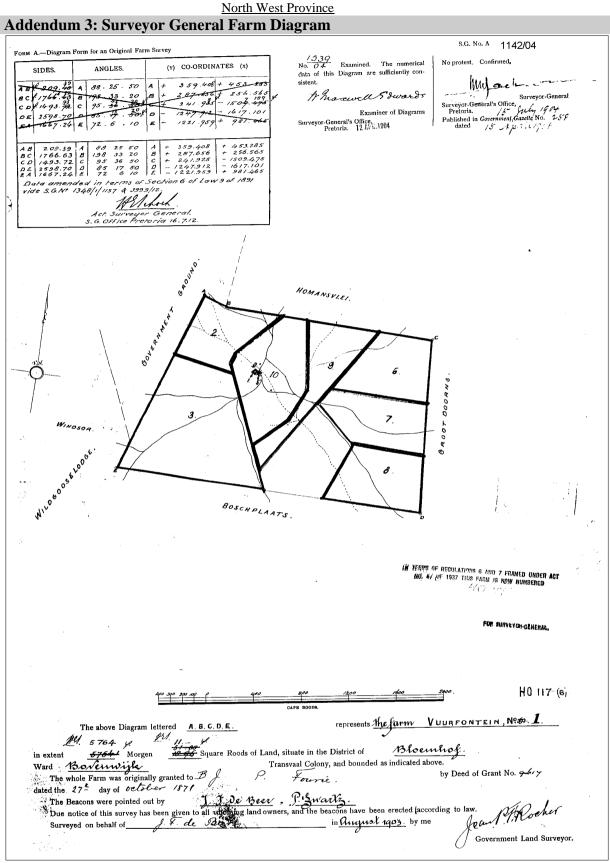


Figure 46: Surveyor General's sketch of the farm Vuurfontein 117 HO which was first surveyed in 1903

Addendum 4: Relocation of Graves

Marked graves younger than 60 years do not fall under the protection of the NHRA (Act No. 25 of 1999) with the result that exhumation, relocation and reburial can be conducted by an undertaker. This will include logistical aspects such as social consultation, purchasing of plots in cemeteries, procurement of coffins, etc. Other legislative measures which may be pertinent include the Removal of Graves and Dead Bodies Ordinance (Ordinance No. 7 of 1925), Regulations Relating to the Management of Human Remains (GNR 363 of 22 May 2013) made in terms of the National Health Act No. 61 of 2003, Ordinance on Exhumations (Ordinance No. 12 of 1980) as well as any local and regional provisions, laws and by-laws that may be in place.

Marked graves older than 60 years are protected by the NHRA (Act No. 25 of 1999) an as a result an archaeologist must be in attendance to assist with the exhumation and documentation of the graves. Note that unmarked graves are by default regarded as older than 60 years and therefore also falls under the NHRA (Act No. 25 of 1999, Section 36).

The relocation of graves entails the following procedure:

- Notices of intent to relocate the graves must be put up at the burial site for a period of 60 days. This should contain contact information where communities and family members can register as interested and affected parties. All information pertaining to the identification of the graves must be documented for the application of a SAHRA permit. All notices must be in at least 3 languages, of which English is one. This is a requirement by law.
- These notices of intention must also be placed in at least two local newspapers and have the same information as above.
- Local radio stations can also be used to try contact family members. This is not required by law, but can be helpful.
- During this time (60 days) a suitable cemetery must be identified near to the development or otherwise one specified by the family of the deceased.
- An open day for family members should be arranged after the period of 60 days so that they can gather to discuss the way forward, and to sort out any problems. The developer needs to take the families requirements into account.
- Once the 60 days have passed and all the information from the family members have been received, a permit can be requested from SAHRA. This is a requirement by law.
- Once the permit has been issued, the graves may be exhumed and relocated.
- All headstones must be relocated with the graves as well as any remains and any additional objects found in the grave.

Information needed for the SAHRA permit application

- The permit application must be done by an archaeologist.
- A map of the area where the graves have been located.
- A survey report of the area prepared by an archaeologist.
- All the information on the families that have identified graves.
- A letter of permission from the landowner granting permission to the developer to exhume and relocate the graves.
- A letter (or proof of purchase of the plots) from the new cemetery confirming that the graves will be reburied there.

• Details of the farm name and number, magisterial district and GPS coordinates of the gravesite.

Graves are generally be classified into four categories. These are:

- Graves younger than 60 years;
- Graves older than 60 years, but younger than 100 years;
- Graves older than 100 years; and
- Graves of victims of conflict or of individuals of royal descent.