



iLifa leMveli leNtshona Koloni
Erfenis Wes-Kaap
Heritage Western Cape

NOTIFICATION OF INTENT TO DEVELOP

Completion of this form is required by Heritage Western Cape for the initiation of all impact assessment processes under Section 38(1) & (8) of the National Heritage Resources Act.

Whilst it is not a requirement, it may expedite processes and in particular avoid calls for additional information if certain of the information required in this form is provided by a heritage specialist/s with the necessary qualifications, skills and experience.

A. BASIC DETAILS

PROPERTY DETAILS:

Name of property:	
Street address or location (eg: off R44): DR 0002254, Laingsburg	
Erf or farm number/s:	Coordinates: 21.12'25.34"S 32.32'15.5"E (A logical centre point. Format based on WGS84.)
Town or District: Central Karoo	Responsible Municipality: Laingsburg Municipality
Extent of property:	Current use: Borrow pits
Predominant land use/s of surrounding properties: Mountain range	

REGISTERED OWNER OF PROPERTY:

Name 59.5 Gerrit Victor Farm Langberg, 60.6 Louis Alberts Farm Allemanshoek Road Reserve c/o Dept Transport and Public Works		
Address Dept. Transport & Public Works: WCPA: P O Box 2603, Cape Town, 8000		
Telephone 021 483 2020	Cell	E-mail quahnita@vidamemoria.co.za

By the submission of this form and all material submitted in support of this notification (ie: 'the material'), all applicant parties acknowledge that they are aware that the material and/or parts thereof will be put to the following uses and consent to such use being made: filing as a public record; presentations to committees, etc; inclusion in databases; inclusion on and downloading from websites; distribution to committee members and other stakeholders and any other use required in terms of powers, functions, duties and responsibilities allocated to Heritage Western Cape under the terms of the National Heritage Resources Act. Should restrictions on such use apply or if it is not possible to copy or lift information from any part of the digital version of the material, the material will be returned unprocessed.

I confirm that I enclose with this form four hardcopies of all material submitted together with a CD ROM containing digital versions of all of the same.

Signature of owner or authorised agent
(Agents must attach copy of power of attorney to this form.)

Date 21 / 09 / 2011

DEVELOPMENT DETAILS:

Please indicate below which of the following Sections of the National Heritage Resources Act, or other legislation has triggered the need for notification of intent to develop.	
<input type="checkbox"/> S38(1)(a) Construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier over 300m in length.	S38(1)(c) Any development or activity that will change the character of a site - <input checked="" type="checkbox"/> (i) exceeding 5 000m ² in extent; <input type="checkbox"/> (ii) involving three or more existing erven or subdivisions thereof; <input type="checkbox"/> (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years.
<input type="checkbox"/> S38(1)(b) Construction of a bridge or similar structure exceeding 50m in length.	
<input type="checkbox"/> S38(1)(d) Rezoning of a site exceeding 10 000m ² in extent.	
<input checked="" type="checkbox"/> Other triggers, eg: in terms of other legislation, (ie: National Environment Management Act, etc.) Please set out details: Environmental Management Programmes (EMProgs) as called for by the Mineral and Petroleum Resources Development Act (49 of 2008)	If you have checked any of the three boxes above, describe how the proposed development will change the character of the site: Borrow pits are used to obtain material for the maintenance of gravel roads
If an impact assessment process has also been / will be initiated in terms of other legislation please provide the following information: Authority / government department (ie: consenting authority) to which information has been /will be submitted for final decision: Department of Mineral Resources Present phase at which the process with that authority stands: Submission of EMProg pending comment from Heritage Western Cape	
Provide a <u>full</u> description of the nature and extent of the proposed development or activity including its potential impacts (eg: changes in land use, envisaged timeframes, provision of additional bulk services, excavations, landscaping, total floor area, height of development, etc. etc.): As per the requirements of the Minerals and Petroleum Resources Development Act. all mining activities including extraction of material from borrow pits and quarries requires authorisation from the Department of Mineral Resources. Where the WCPA: Dept Transport and Public Works is undertaking the maintenance and / or upgrading of roads under its control, no application needs to be submitted for a mining right or permit, however, as per the provisions of Section 106(2) of the MPRDAAct, they are required to prepare and submit an EMProg to DMR for their approval, prior to the extraction of any material from a proposed borrow pit or quarry. According to the MPRDAAct, mineral resources are in the custodianship of the State, where the WCPA would temporarily acquire the right to mine the borrow pits, subject to approval by the DMR. Material excavated from the borrow pits will be used for the re-gravelling to portions of road DR 02254 so as to benefit road users in terms of road safety and user economy as well as to minimise maintenance-related disruptions. DR 02254 at 59.5 and 60.6 are existing borrow pits to be expanded. Borrow pit at 59.5 km has an estimated Proven Reserves: ~18 000m ³ over an area of about 230 m x 40 m wide to a maximum depth of about 2 m utilising 1v:3h cut face slopes. A discontinuous overburden layer consists of	

organic rich sandy silty gravel with a variable thickness up to about 0,1m in places. Borrow pit at 60.6 has an estimated Proven Reserves: ~17 500 m³ over an area of about 120m x 120 m wide to a maximum depth of about 1,3 m utilising 1v:3h cut face slopes. A discontinuous overburden layer consists of sandy silty gravel with roots with a variable thickness up to about 0,1m in places

No new roads would have to be constructed as borrow pits / quarries are accessed either directly off main road. The borrow pits and access tracks would be fenced for the duration of the mining activities. There will be no site buildings located at the borrow pits / quarry sites.

The Central Karoo District Municipality will be undertaking the work on behalf of the WCPA. Formal agreements will be entered into between the landowner and the WCPA and the municipality will manage the site until decommissioning and closure.

B. HERITAGE RESOURCES AND IMPACTS THEREUPON

Section 3 of the National Heritage Resources Act sets out the following categories of heritage resource as forming part of the national estate. Please indicate the known presence of any of these by checking the box alongside and then providing a description of each occurrence, including nature, location, size, type

Failure to provide sufficient detail or to anticipate the likely presence of heritage resources on the site may lead to a request for more detailed specialist information.

(The assistance of relevant heritage professionals is particularly relevant in completing this section.)

Provide a short history of the site and its environs (Include sources where available): Laingsburg, first established in the 1870s, developed as a town when the railway line was completed. The town was laid out in 1881 and became a municipality in 1904. Many homes and farms were lost during the flooding of the Buffels River in January 1981, with the town retaining only some of its earlier buildings. The existing borrow pits lie within the mountain range.
<http://laingsburggov.blogspot.com>, <http://en.wikipedia.org/wiki/Laingsburg>, Fransen H (2006): 359, <http://www.heritage.org.za/karoo/laing.htm>

Please indicate which heritage resources exist on the site and in its environs, describe them and indicate the nature of any impact upon them:

<input type="checkbox"/>	<p>Places, buildings, structures and equipment of cultural significance</p> <p>Description of resource:</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Places to which oral traditions are attached or which are associated with living heritage</p> <p>Description of resource:</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Historical settlements and townscapes</p> <p>Description of resource:</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Landscapes and natural features of cultural significance</p> <p>Description of resource:</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Geological resources of scientific or cultural importance</p> <p>Description of resource: The geology consists of highly weathered Karoo dolerite. Material was found to be suitable for use as gravel wearing course (Aurecon geological strategic gravel</p>

	<p>pit summary report, Jan 2011)</p> <p>Description of impact on heritage resource: None</p>
<input type="checkbox"/>	<p>Archaeological resources (Including archaeological sites and material, rock art, battlefields & wrecks):</p> <p>Description of resource: Pits are located north west of Merveville in the Moordenaars Karoo with a high probability that MSA surface artefact scatters will be found in the area. ESA & LSA artefact sites are also likely to occur. No studies are known from the immediate vicinity, however the general context is considered to be of high significance based on a desktop study (Manhire & Patrick September 2011) of sites known to exist in the general area.</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Palaeontological resources (ie: fossils):</p> <p>Description of resource: Key Geological Units and age are Abrahamskraal Formation of Middle Permian age with potential Diverse terrestrial and freshwater tetrapods and sparse vascular plants considered to be of high value and Karoo Dolerite Suite of Early Jurassic age with No fossils (intrusive igneous rock) and of zero palaeontological value (desktop survey conducted by Dr John Almond, August 2011)</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Graves and burial grounds (eg: ancestral graves, graves of victims of conflict, historical graves & cemeteries):</p> <p>Description of Resource:</p> <p>Description of Impact on Heritage Resource:</p>
<input type="checkbox"/>	<p>Other human remains:</p> <p>Description of resource:</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Sites of significance relating to the history of slavery in South Africa:</p> <p>Description of resource:</p> <p>Description of impact on heritage resource:</p>
<input type="checkbox"/>	<p>Other heritage resources:</p> <p>Description of resource:</p> <p>Description of impact on heritage resource:</p>

Describe elements in the environs of the site that could be deemed to be heritage resources:
Description of impacts on heritage resources in the environs of the site: None

Summary of anticipated impacts on heritage resources: The site has been identified as possessing no cultural significance and / or value and proposed expansion of existing borrow pits will result in no impact on heritage resources.

Therefore no further studies are required in terms of Section 38. If any archaeological and / or palaeontological material is discovered during earth moving activities, work should be stopped and HWC notified immediately.

ILLUSTRATIVE MATERIAL (This form will not be processed unless the following are included):

Attach to this form a minimum A4 sized locality plan showing the boundaries of the area affected by the proposed development, its environs, property boundaries and a scale. The plan must be of a scale and size that is appropriate to creating a clear understanding of the development.

Attach also other relevant graphic material such as maps, site plans, satellite photographs and photographs of the site and the heritage resources on it and in its environs. These are essential to the processing of this notification.

Please provide all graphic material on paper of appropriate size and on CD ROM in JPEG format. It is essential that graphic material be annotated via titles on the photographs, map names and numbers, names of files and/or provision of a numbered list describing what is visible in each image.

C. RECOMMENDATION

In your opinion do you believe that a heritage impact assessment is required? Yes No

Recommendation made by:

Name Quahnita Samie

Capacity Town planner and heritage consultant at vidamemoria heritage consultants

PLEASE NOTE: No Heritage Impact Assessment should be submitted with this form or conducted until Heritage Western Cape has expressed its opinion on the need for such and the nature thereof.

D. INFORMATION TO BE PROVIDED AND STUDIES TO BE CONDUCTED AS PART OF THE HERITAGE IMPACT ASSESSMENT (HIA)

If it is recommended that an HIA is required please complete this section of the form.

DETAILS OF HERITAGE PRACTITIONERS AND SPECIALISTS INTENDING TO CONDUCT THE HIA:

1.	Name of individual:	Name of Practice:	Area of specialisation:
	Qualifications:		
	Experience:		
	Standing in heritage resource management:		
	E-mail Address:	Telephone:	Cell:
2.	Name of individual:	Name of Practice:	Area of specialisation:
	Qualifications:		
	Experience:		
	Standing in heritage resource management:		
	E-mail Address:	Telephone:	Cell:

3.	Name of individual:	Name of Practice:	Area of specialisation:
	Qualifications:		
	Experience:		
	Standing in heritage resource management:		
	E-mail Address:	Telephone:	Cell:
4.	Name of individual:	Name of Practice:	Area of specialisation:
	Qualifications:		
	Experience:		
	Standing in heritage resource management:		
	E-mail Address:	Telephone:	Cell:
5.	Name of individual:	Name of Practice:	Area of specialisation:
	Qualifications:		
	Experience:		
	Standing in heritage resource management:		
	E-mail Address:	Telephone:	Cell:
If this submission is made in terms of Section 38(8) of the National Heritage Resources Act indicate below the particulars of the principle environmental consultant on the project.			
Name of individual:			
Name of Practice:			
Area of specialisation:			
E-mail Address:			
Telephone:			
Cell:			
Postal Address:			

DETAILS OF STUDIES TO BE CONDUCTED IN THE INTENDED HIA

In addition to the requirements set out in Section 38(3) of the NHRA, indicate envisaged studies:	
<input type="checkbox"/>	Heritage resource-related guidelines and policies.
<input type="checkbox"/>	Local authority planning and other laws and policies.
<input type="checkbox"/>	Details of parties, communities, etc. to be consulted.
<input type="checkbox"/>	Specialist studies, eg: archaeology, palaeontology, architecture, townscape, visual impact, etc. Provide details:
<input type="checkbox"/>	Other. Provide details:
PLEASE NOTE: Any further studies which Heritage Western Cape may resolve should be submitted must be in the form of a single, consolidated report with a single set of recommendations. Specialist studies must be incorporated in full, either as chapters of the report, or as annexures thereto.	

Borrow Pit	Location (DMS)		1:50 000 Map Sheet	Key archaeological components and age	Potential archaeological heritage	Archaeological sensitivity	Recommended mitigation
	(East)	(South)					
60	21° 12' 25.34"	32° 32' 15.5"	3221 CA			HIGH	
Central Karoo (Merweville Area) DRO2254/60.6/0.00LR Existing			Besemgoedberg	The range of possibilities include: Early Stone Age artefacts (older than 100 000 years) Middle Stone Age artefacts (approx. 100 000 to 30 000 years) Later Stone Age artefacts (dating to within the last 30 000 years) The presence of Khoekhoe herders (over the last 1500 years) Rock paintings & rock engravings (mainly within last 5000 years) Graves and unmarked burials.	Borrow Pit 60 is located ± 32 km NW of Merweville in the Moordenaars Karoo. There is a high probability that MSA surface artefact scatters will be found in the area. ESA & LSA artefact sites are also likely to occur. Rock art sites are known to exist in the area. These predictions are based on a desktop study (Manhire & Patrick 2011) of sites known to exist in the area.		As no archaeological survey was carried out when the existing borrow pit was excavated and sites are known to exist in the area it is, therefore, strongly recommended that a Scoping Fieldwork Study, which includes GIS mapping and analysis, is carried out prior to any further development.

WESTERN CAPE BORROW PITS – INITIAL PALAEOONTOLOGICAL HERITAGE ASSESSMENT (August 2011 Second tranche)
Dr John E. Almond, *Natura Viva* cc, CAPE TOWN

Borrow pit	Location (DMS)		Key Geological Units & Age	Potential fossil heritage	Palaeontological sensitivity	Recommended mitigation
	East	South				
60 Laingsburg DR02254/60.6/0.00/LR Existing	21°12'25.34"	32°32'15.50"	Abrahamskraal Formation (Lower Beaufort Group, Karoo Supergroup) Middle Permian	Diverse terrestrial and freshwater tetrapods of <i>Tapinocephalus</i> Assemblage Zone (amphibians, true reptiles, synapsids – especially therapsids), palaeoniscoid fish, freshwater bivalves, trace fossils (including tetrapod trackways), sparse vascular plants (<i>Glossopteris</i> Flora, including petrified wood)	HIGH	Palaeontological field assessment before excavation commences