



an agency of the
Department of Arts and Culture

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South African Heritage Resources Agency | 111 Harrington Street | Cape Town
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Date: Tuesday October 10, 2017

Page No: 1

CaseID: 10594

Letter

In terms of Section 32(19) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Mrs Elisabeth Hempel
University of Potsdam
Potsdam University Evolutionary and Adaptive Genomics
Institute for Biochemistry and Biology Faculty for Mathematics and Natural Sciences
Karl-Liebknecht-Str. 24-25, Haus 29, Raum 2.69 D-14476 Potsdam

We want to sample blue antelope (*Hippotragus leucophaeus*) and roan antelope (*Hippotragus equinus*) specimens from different archaeological sites (Elands Bay Cave, Die Kelders Cave 1, Klasies River Mouth, Byneskranskop 1, Nelson Bay Cave, Boomplaas Cave) in South Africa. We would like to sample for tooth roots and bone to apply ancient DNA sequencing techniques to reconstruct the phylogeographic and population structure of this extinct species. All specimens are housed at Iziko Museums of South Africa (Curator Wendy Black & Denise Hamerton) in the Western Cape Province. Please see as well the uploaded detailed proposal description.

Dear Drs. E. Hempel, F. Bibi, J. Brink, M. Hofreiter and J.T. Faith,

Thank you for your application to permanently export bone or cementum samples (250mg per bone/tooth) from *Hippotragus leucophaeus* and *H. equinus* from Nelson Bay Cave, Byneskranskop, Boomplaas Cave, Klasies River Mouth and Die Kelders Cave 1 for DNA sequencing at the University of Potsdam, Germany. As the permit holder must be affiliated with a South African institution, collaborator James Brink (Florisdad Quaternary Research Department) is the permit holder and the permit is issued to the remaining collaborators. Two permits have been issued as the two Provincial Heritage Authorities detailed different expiry dates in their destructive analysis permits. As requested in the consent letter by Iziko Museums of South Africa, any remaining samples must be returned to Iziko.

SAHRA has reviewed the application and has decided to approve it.

We wish you every success with this project.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Genomic insights into the historic extinction of the blue antelope (*Hippotragus leucophaeus*) and the roan antelope (*Hippotragus equinus*) from the Western Cape, Republic of South Africa

Our Ref: 10594



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Yours faithfully

Ragna Redelstorff
Heritage Officer
South African Heritage Resources Agency

Phillip Hine
Acting Manager: Archaeology, Palaeontology and Meteorites Unit
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <http://www.sahra.org.za/node/385197>

Terms & Conditions:

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.