



an agency of the  
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: [info@sahra.org.za](mailto:info@sahra.org.za)  
South African Heritage Resources Agency | 111 Harrington Street | Cape Town  
P.O. Box 4637 | Cape Town | 8001  
[www.sahra.org.za](http://www.sahra.org.za)

Enquiries: Elijah Dumisani Katsetse  
Tel: 0214624502  
Email: [ekatsetse@sahra.org.za](mailto:ekatsetse@sahra.org.za)  
CaseID: 18720

Date: Monday July 25, 2022  
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PermitID: 3653

## PERMIT: Sampling, Analysis

In terms of Section 35(4) of the National Heritage Resources Act (Act 25 of 1999)

Permit Holder: Justin Bradfield  
Evolutionary Studies Institute  
Private Bag 3  
WITS, 2050

**Object:** 35/83/1439, ET/1988/126, ET/1985/162

**This permit is issued to Prof. Justing Bradfield (Palaeo-Science Institute, University of Johannesburg) for collecting chemical residue of medicinal and poisonous horns and quivers for analysis from bone and tools from ancient archaeological deposits. The materials are currently housed at the University of the Witwatersrand, Archaeology Department and Ditsong Museum of Cultural History.**

1. Only the selected representatives of the materials stored in the collections may be used in the study.
3. The material will be studied and analysed at the Centre for Plant Metabolomics, University of Johannesburg, where Prof. Ian Dubery will be responsible for the analysis.
4. Prof. Justin Bradfield is responsible for the transport of the material from the above-mentioned institutions/collections.
5. The samples must be used for study purposes only and may not be sold or exchanged.
7. 10mg of residual sample will be collected, destructive analysis or sampling is not permitted.
4. A permit report on the activities undertaken in terms of this permit must be emailed to [apmpermitreports@sahra.org.za](mailto:apmpermitreports@sahra.org.za) before 31 July 2023 using the template in the following link: <https://sahris.sahra.org.za/content/apmpermitreports>. SAHRA reserves the right to withhold further permits if progress is not deemed satisfactory. Permit reports can be made available to researchers on request within three years of the lapsing of this permit.
5. Copies of all the published papers and/or reports resulting from this work must be lodged with the heritage authority.
6. SAHRA shall not be liable for any losses, damages or injuries by or to persons or properties as a result of



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any activities in connection with this permit.

7. SAHRA reserves the right to cancel this permit by notice to the permit holder.

8. This permit is subject to a general appeal and may be suspended should an appeal against the decisions be received by SAHRA within 14 days from the date of the permit. SAHRA may not be held responsible for any costs or losses incurred in the event of the suspension or retraction of this permit.

9. Request to renew permits must be done at least two months prior to the expiry of the existing permit.

This permit is valid from  
**25/07/2022 to 31/07/2023**

Elijah Dumisani Katsetse  
Heritage Officer  
South African Heritage Resources Agency

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

Additional Info:

Please note that this permit may be suspended should an appeal against the decisions be received by SAHRA within 14 days from the date of the permit. SAHRA may not be held responsible for any costs or losses incurred in the event of the suspension or retraction of this permit.

## GC-MS analysis of medicine horns and poison quiver

Our Ref:



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**ADMIN:** Direct URL to case: <https://sahris.sahra.org.za/node/598446>