DRENNAN MAUD (PTY) LTD

GEOTECHNICAL ENGINEERS AND ENGINEERING GEOLOGISTS

Incorporating Drennan Maud & Partners (Est. 1975)



Reg. No. 2014/038872/07

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Our Ref.: 34030

Your Ref.:

27th September 2023

MAP AFRICA CONSULTING ENGINEERS

Att: Mr Marc Nair

Email; marc@mapafrica.co.za

Dear Sir.

PHASE 2 GEOTECHNICAL INVESTIGATION - NEW KWAZULU NATAL MUSEUM, 96
JABU NDLOVU STREET, PIETERMARITZBURG.

Drennan Maud (Pty) Ltd carried out the Phase 1 shallow field investigation for the new KZN Museum on the 08th August 2023. The field investigation comprised inspection pitting with TLB plant, Dynamic Cone Penetrometer (DCP) testing and sampling of recovered materials.

The Phase 1 shallow field investigation encountered weathered shale bedrock across the majority of the site. However, the inspection pits encountered a Karoo dolerite within the footprint of the new museum structures. Of concern is the deeply weathered residual clayey state of the dolerite intrusion which locally was observed to underlay a thin ±1m thick crust of hard baked shale. The thickness, extent and orientation of the residual dolerite clay intrusion could not be determined from the Phase 1 shallow investigation.

Considering the size of the development as well as the anticipated high foundation loading, DML recommended the commencement of the Phase 2 deep investigation comprising the drilling of five geotechnical boreholes to maximum 15m depth.

Confirmation to proceed with the Phase 2 investigation was received from Sakhisizwe Architects on the 14th August 2023. The Phase 2 drilling investigation is in its final week of borehole drilling at the date of this letter.

Yours faithfully,

DRENNAN MAUD (PTY) LTD

K. GORDON (Pr. Sci. Nat)

