

Phase 1 Heritage Impact Assessment of an existing borrow pit on farm Content 1167, Bloemfontein, Free State Province.

Palaeo Field Services, PO Box 38806 Langenhoven Park 9330.

Site: Farm Content 1167, Bloemfontein

Map Reference: 1:50 000 scale topographic 2926 AA Bloemfontein

1:250 000 scale geological map 2926 Bloemfontein

Site Coordinates: 29° 5'46.57"S 26° 6'5.93"E

The investigation relates to an application for mining of a 5ha area situated within an existing borrow pit on the farm Content 1167 near Bloemfontein, FS province. The site is situated next to Koppie Road, about 4.2 km due west of Langenhoven Park (**Fig. 1**).

A brief survey of the terrain indicated that the site has been extensively disturbed by previous quarrying activities. The palaeontological footprint in the region is primarily represented by Permian Karoo fossils preserved within bedrock sedimentary strata, as well as late Quaternary mammalian fossils preserved within superficial alluvial deposits (e.g. river gravels and overbank sediments) (**Fig. 2**). However, the site is located within a large dolerite outcrop considered to be of no palaeontological significance (**Fig. 3**). The surrounding area is capped by a veneer of superficial deposits made up of (palaeontologically sterile) Quaternary wind-blown sands and residual soils. Impact on palaeontological remains is considered very low to improbable.

There is no evidence of intact Stone Age archaeological material, capped or distributed as surface scatters on the landscape within the study area and no graves or graveyards were recorded within the proposed footprint area. There is also no above-ground evidence of prehistoric structures, buildings of historical significance older than 60 years, or material of cultural significance within the study area.

Given the degree of disturbance at and prior degradation of the site, the proposed development footprint is not considered palaeontologically or archaeologically vulnerable and is assigned a SAHRA site rating of Generally Protected C (GP.C).

DECLARATION OF INDEPENDENCE

I, Lloyd Rossouw, declare that I act as an independent specialist consultant. I do not have or will not have any financial interest in the undertaking of the activity other than remuneration for work as stipulated in the terms of reference and have no interest in secondary or downstream developments as a result of the authorization of this project.

Yours truly,

A handwritten signature in black ink, appearing to read 'L Rossouw', written in a cursive style.

17 / 04 / 2018



Figure 1. Aerial view of the proposed development footprint.

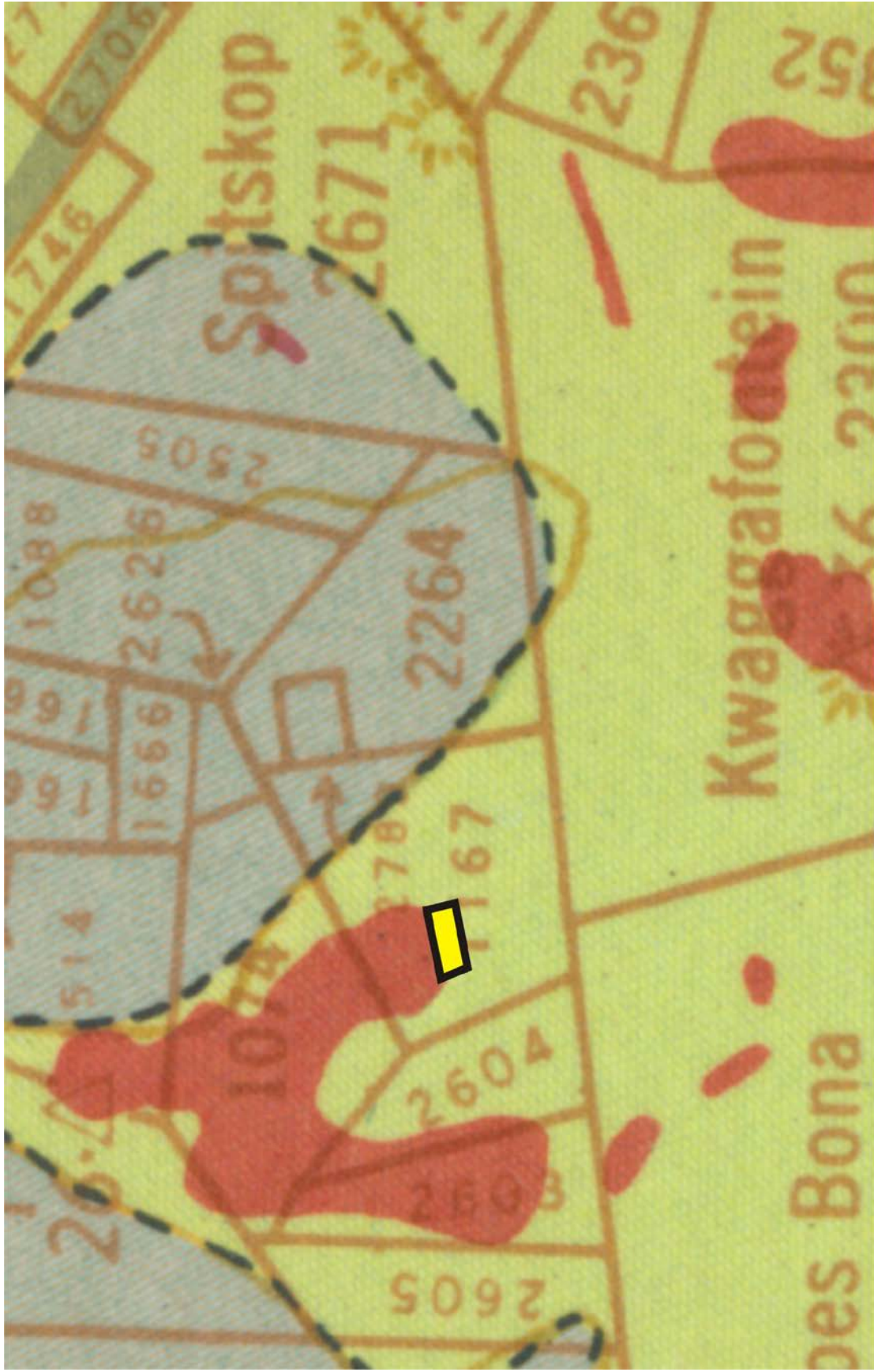


Figure 2. Portion of 1:250 000 scale geological map 2926 Bloemfontein showing the proposed development footprint located within the outcrop area of palaeontologically insignificant dolerite (red area).



Figure 3. Exposed and weathered dolerite boulders representing the underlying geology in the area.