

Exemption from a Phase 1 Palaeontological Impact Assessment for the proposed new Shellyvale sewerage pipeline between Farm Lilyvale 2313 and Farm Hillandale 249, Bloemfontein, Free State Province.

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Site: Farm Lilyvale 2313 and Farm Hillandale 249

Map Ref.: 2926 AA Bloemfontein

General Route Coordinates (Endpoints):

29° 3'27.65"S 26°12'16.65"E

29° 2'48.53"S 26°12'6.51"E

MDA Environmental Consultants requested a palaeontological impact assessment for a proposed new sewerage pipeline (**Fig. 1 & 2**). The approximately 1.3 km pipeline route lies within an outcrop area of fossil-bearing Beaufort Group (Adelaide Subgroup) strata, capped by geologically recent (Quaternary) overburden. However, the proposed development will impact intrusive Jurassic dolerite bedrock only, which is not considered to be palaeontologically significant (**Fig. 3**). The soil overburden (residual deposits) is not palaeontologically vulnerable and the likelihood of **palaeontological** impact on *in situ* bedrock sediments below the superficial overburden is considered to be non-existent.

It is recommended that the proposed development is exempted from a Phase 1 palaeontological impact assessment.

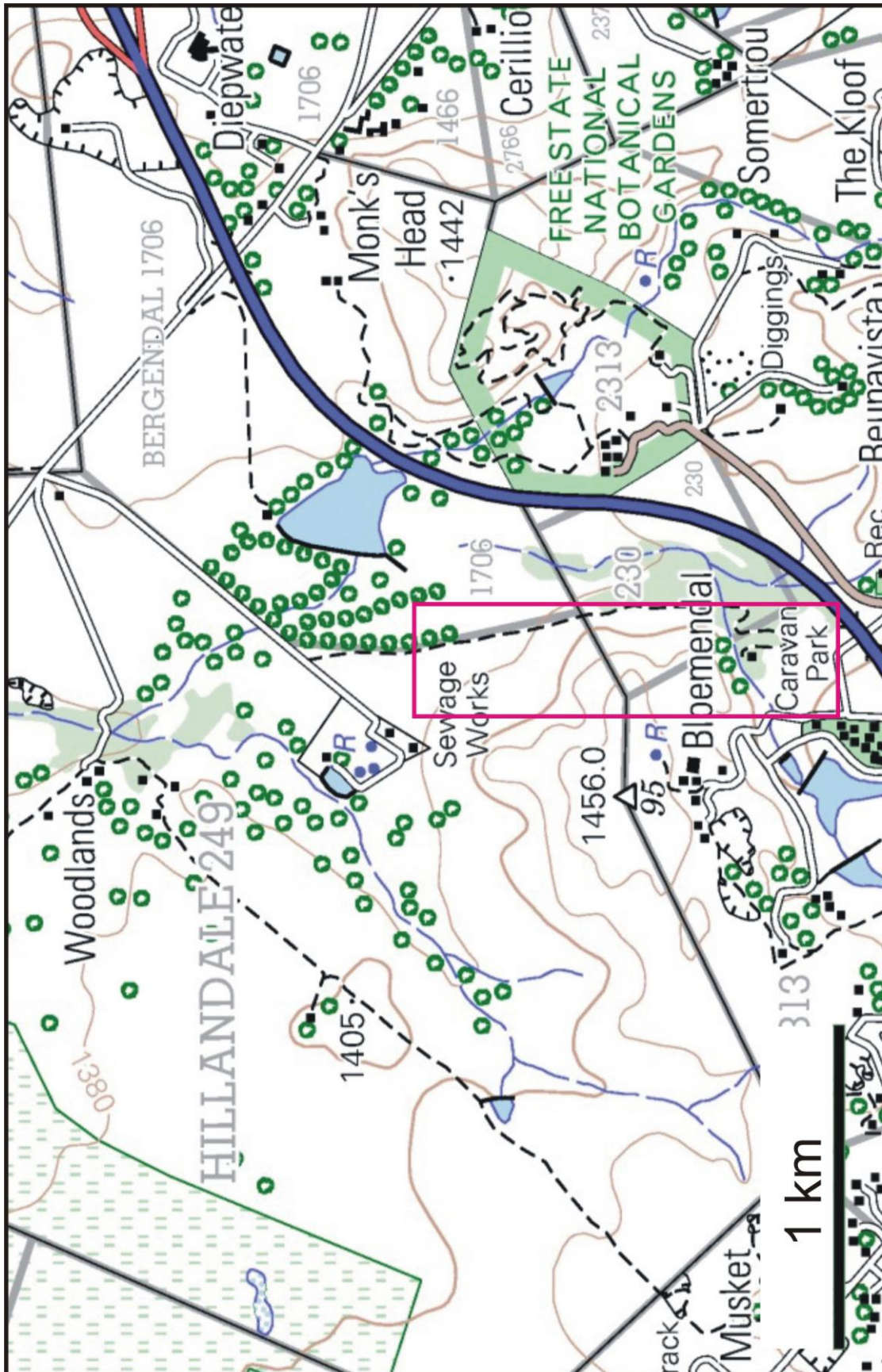


Figure 1. The proposed pipeline footprint (portion of 1:50 000 scale topographical map 2926 AA Bloemfontein).



Figure 2. Aerial view of the proposed pipeline footprint.



Figure 3. Position of the proposed pipeline footprint indicated on the SAHRIS Palaeontological Sensitivity Map (red = very high, field assessment and protocol for finds is required; grey = insignificant, no palaeontological studies required).