

Figure 1: Preliminary Environmental Sensitivity Map from the results of the scoping evaluation for the Vrede Solar PV facility, indicating the recommended development envelope to be assessed within the EIA Phase.

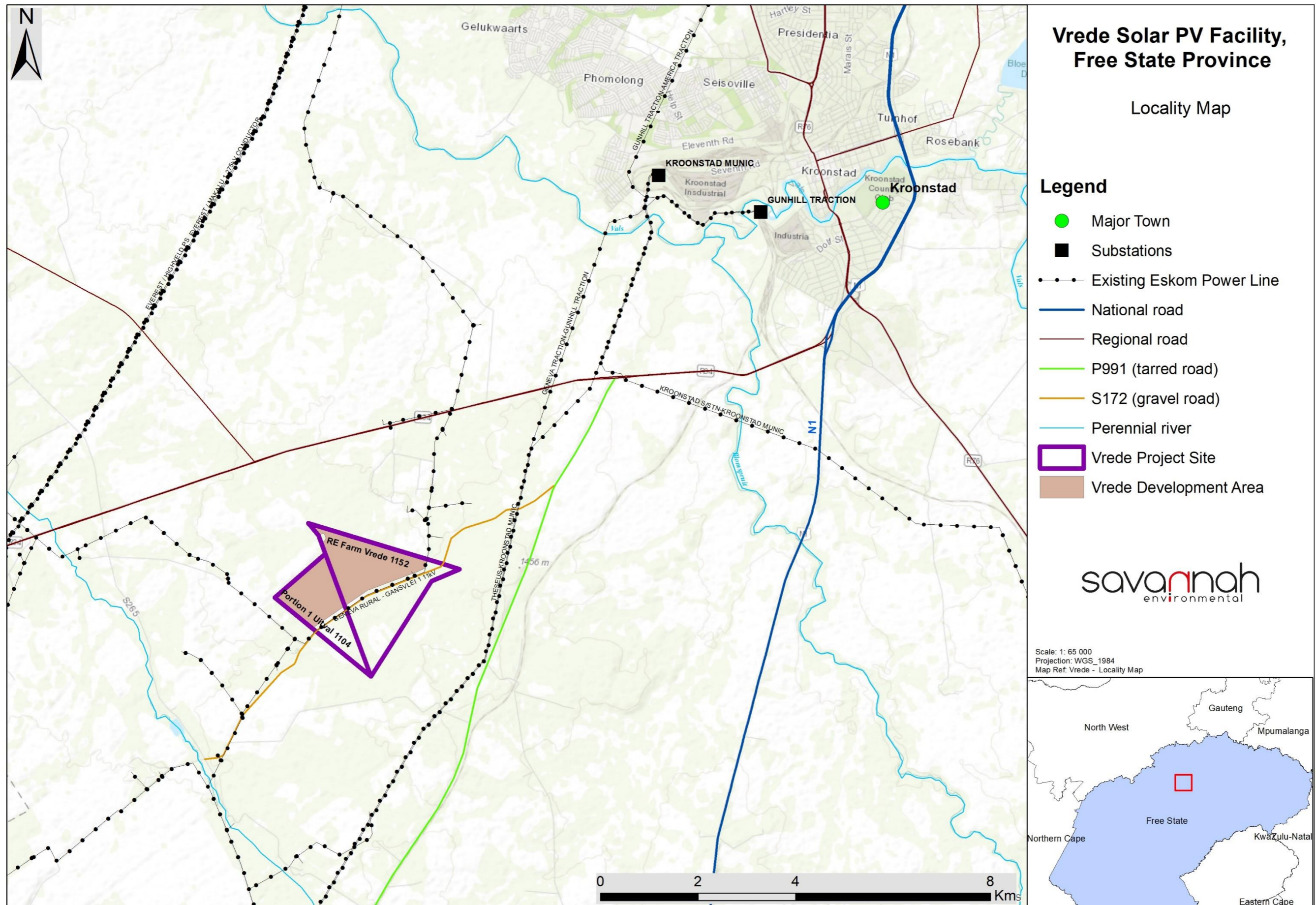


Figure 1.1: Locality map illustrating the location of the Vrede Solar Energy Facility project site on the Remaining extent of the farm Vrede No.1152, and Portion 1 of the farm Uitval No. 1104.

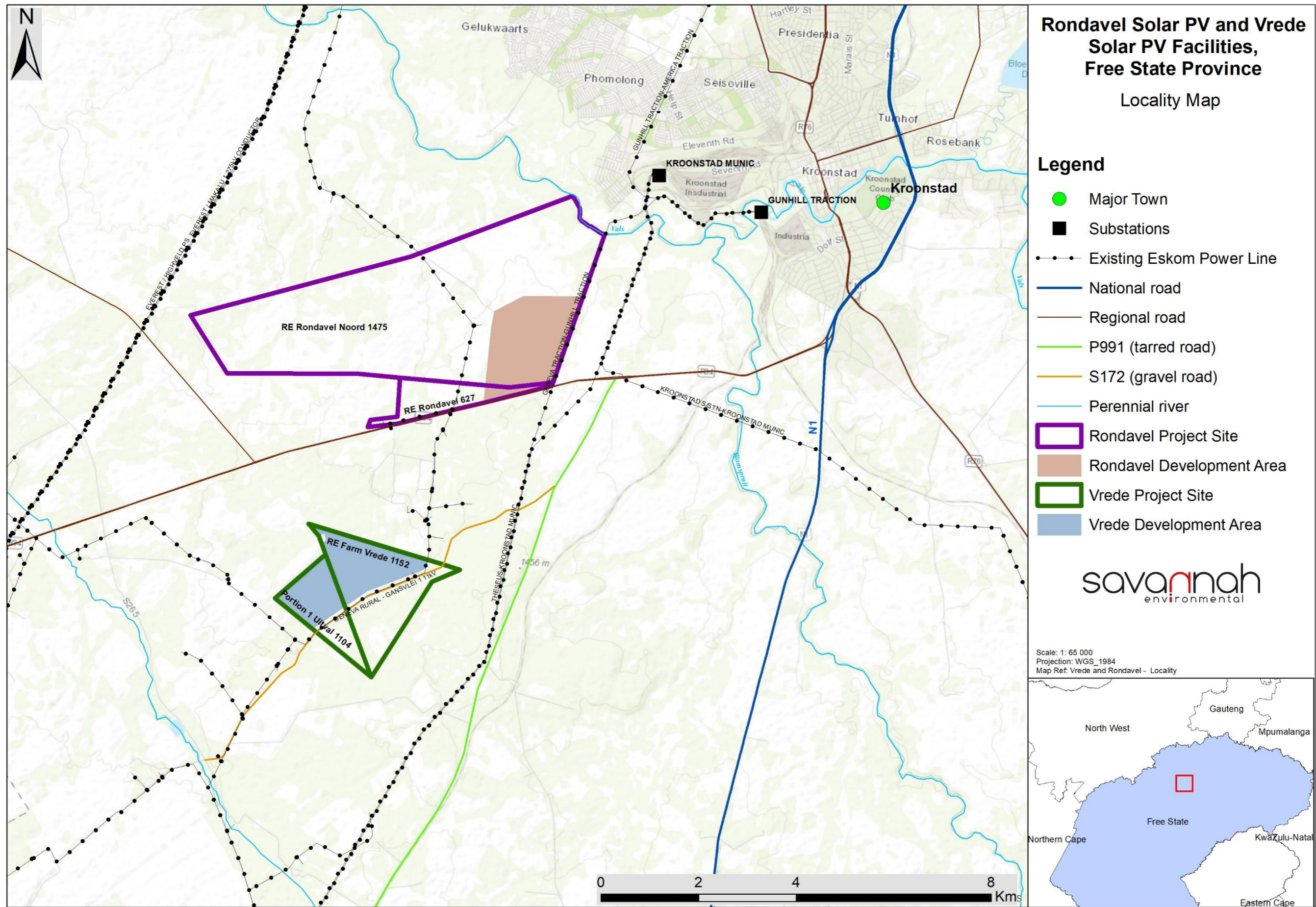


Figure 1.2: Locality map illustrating the locations of the planned Rondavel Solar PV Facility development area in relation to that of the Vrede Solar PV facility.

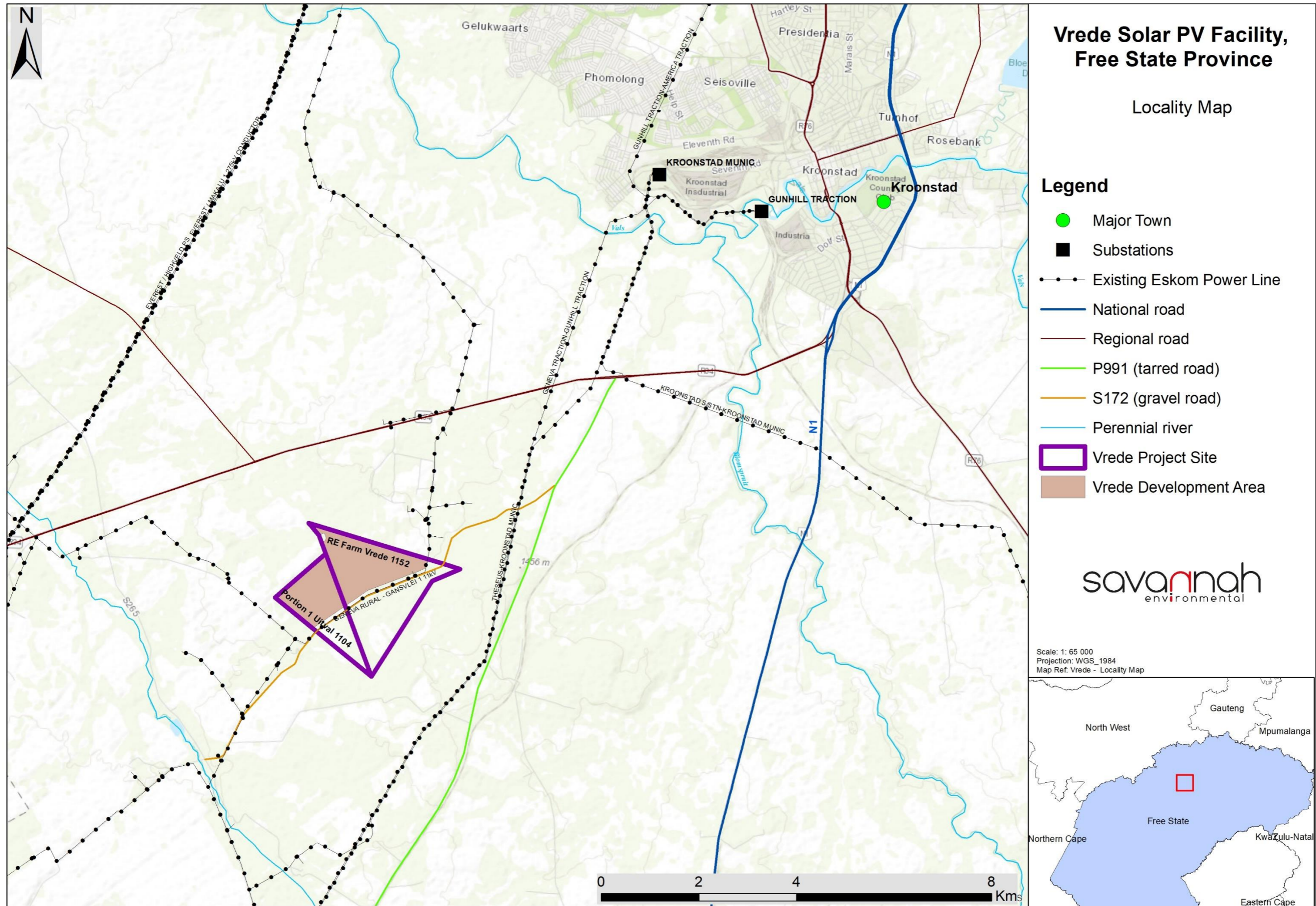


Figure 2.1: Map illustrating the development area within the project site for the Vrede Solar PV project .



Figure 5.4: Existing road infrastructure within the vicinity of the development area for the Vrede Solar PV Facility. This infrastructure will primarily be used to gain access to the development area.

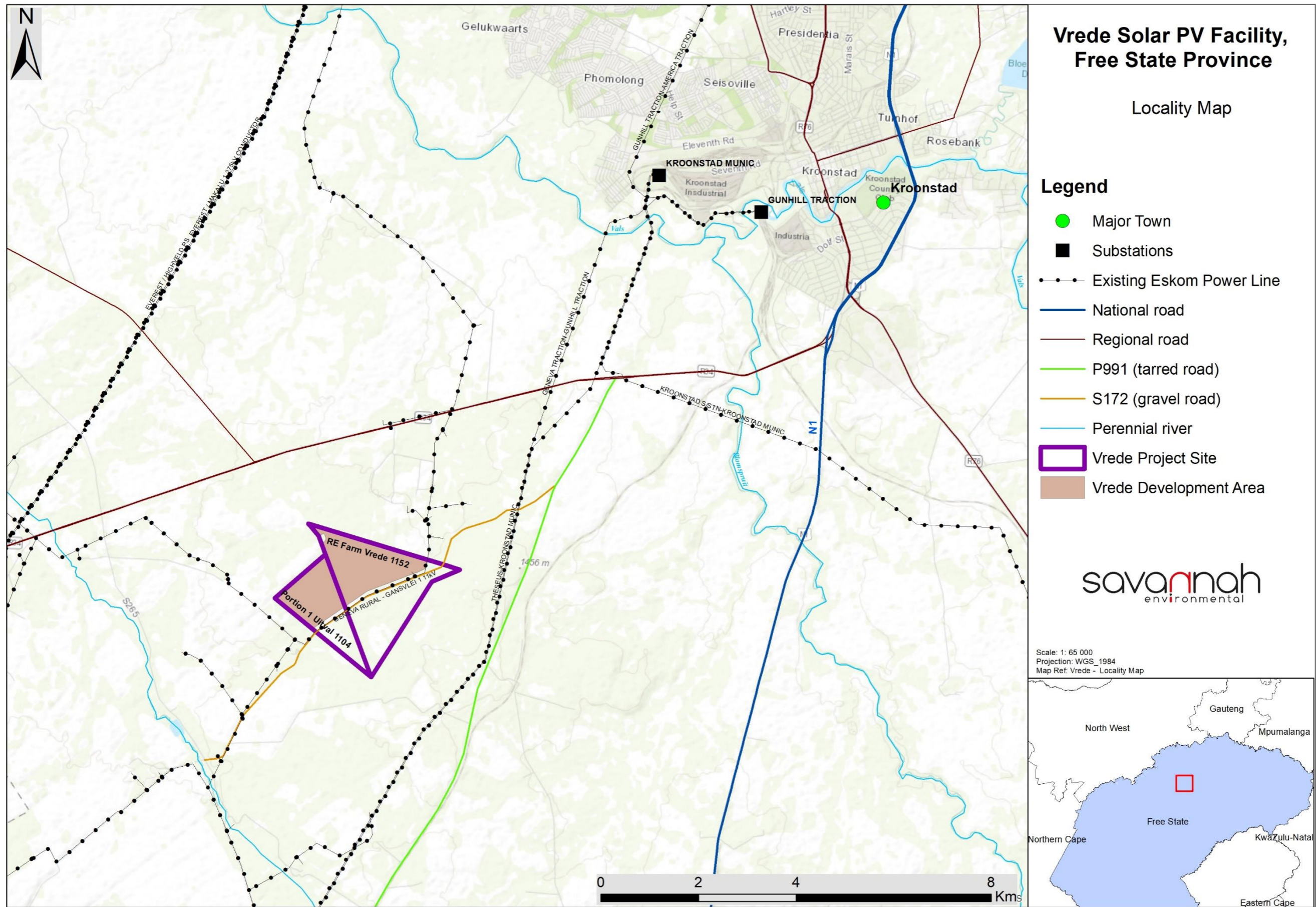


Figure 5.5: The Vrede Solar PV Facility project site in relation to the Eskom Kroonstad Municipality – Theseus 1 132kV power line (south-east) into which the facility will loop in, loop out in order to evacuate the energy to the national grid.

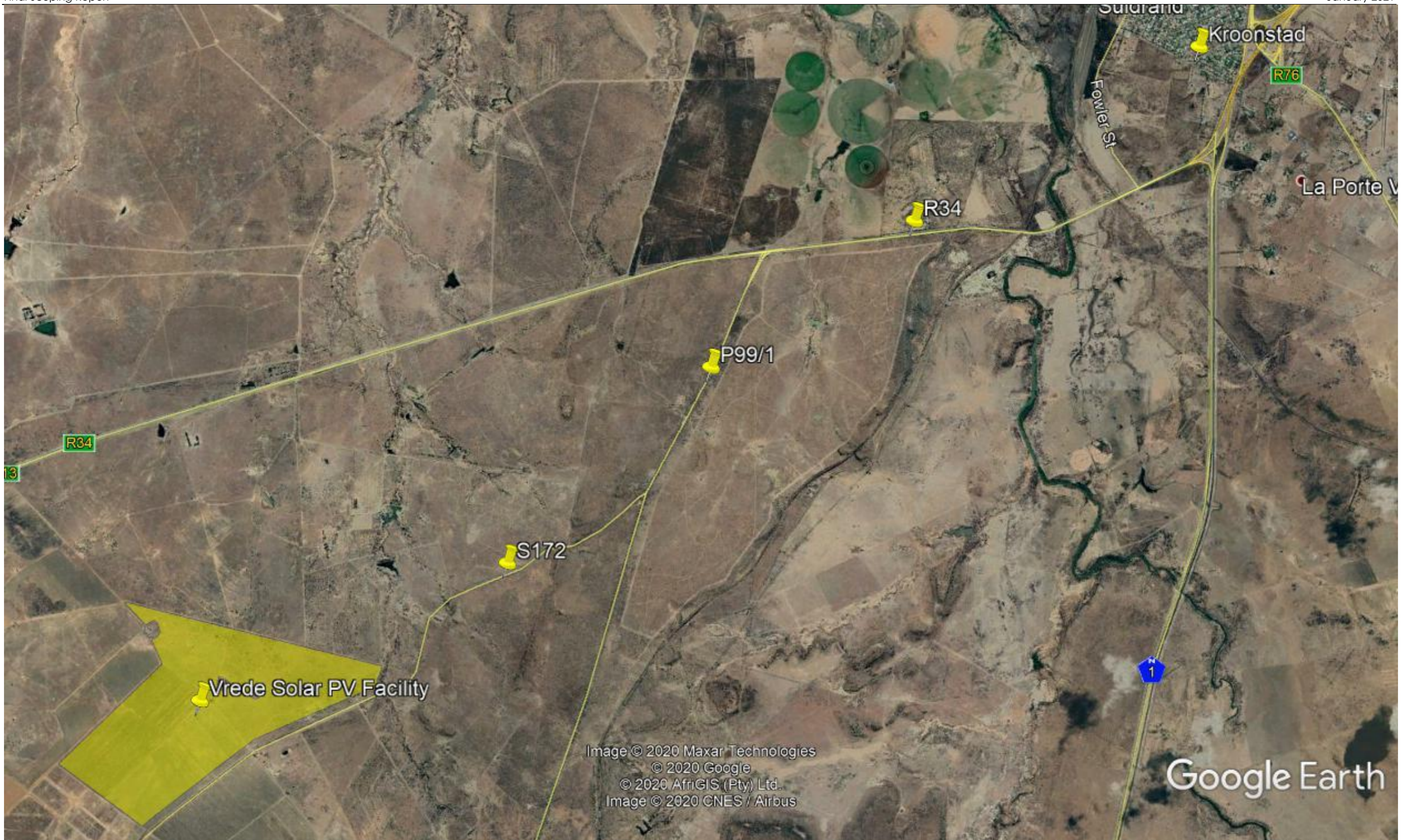
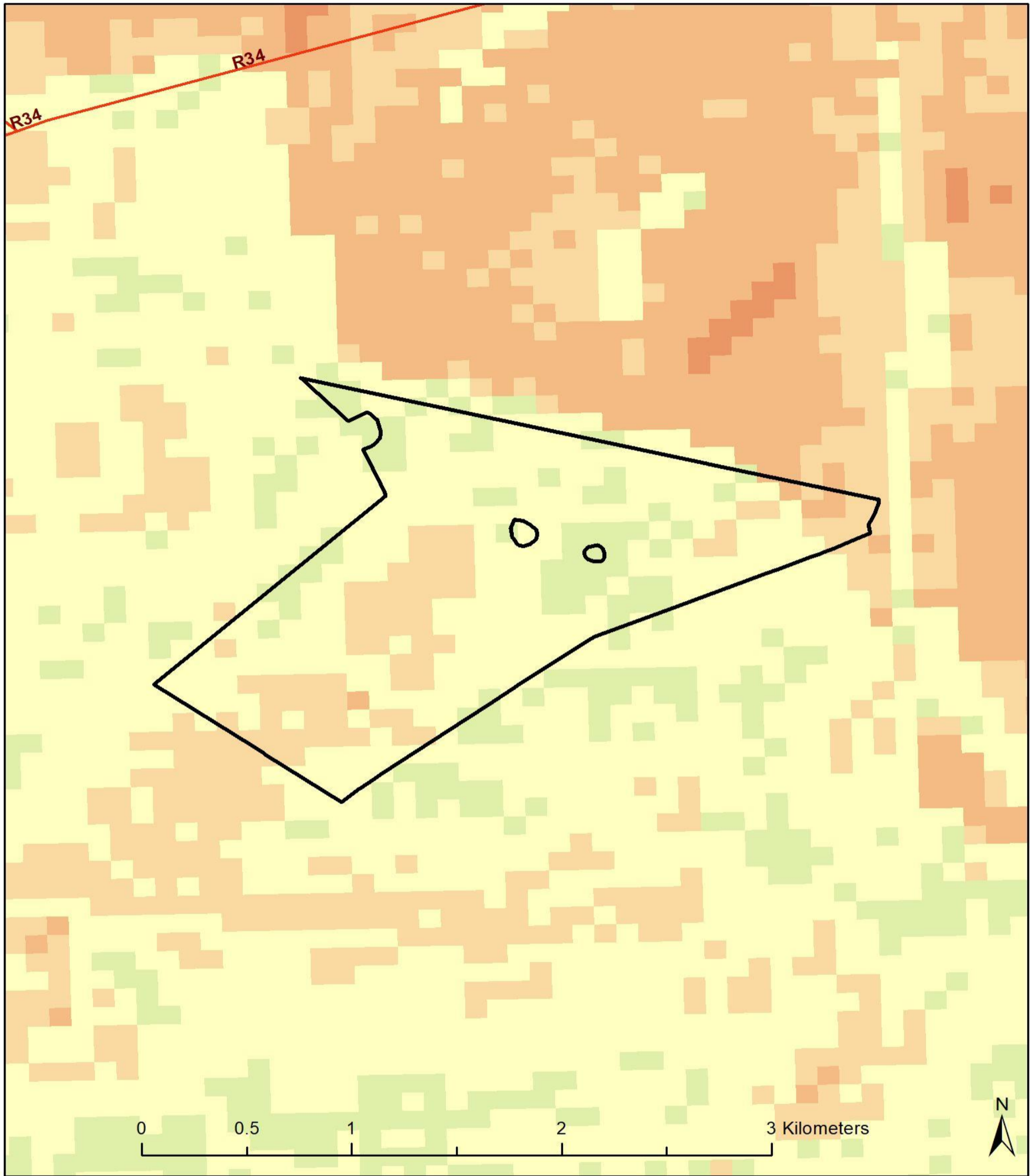


Figure 7.1: Regional map showing the location of the development area relative to Kroonstad town and the main roads in the area



Legend

Land capability (DAFF)

- 05. Low
- 06. Low-Moderate
- 07. Low-Moderate
- 08. Moderate
- 09. Moderate-High

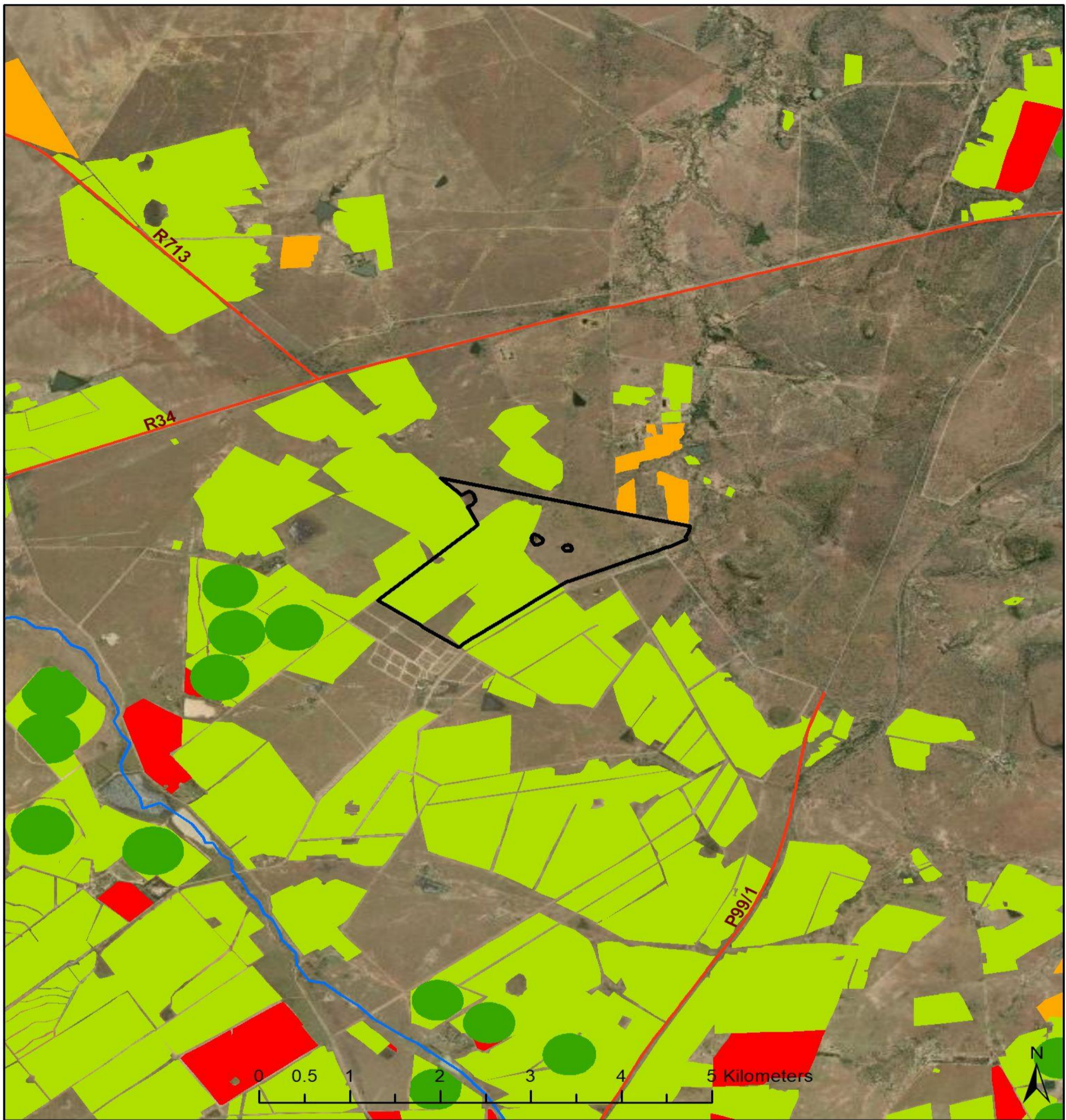
 PV development area (276.8 ha)

 Road



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Figure 7.2: Land capability classes of the project development area



Legend

Field crops

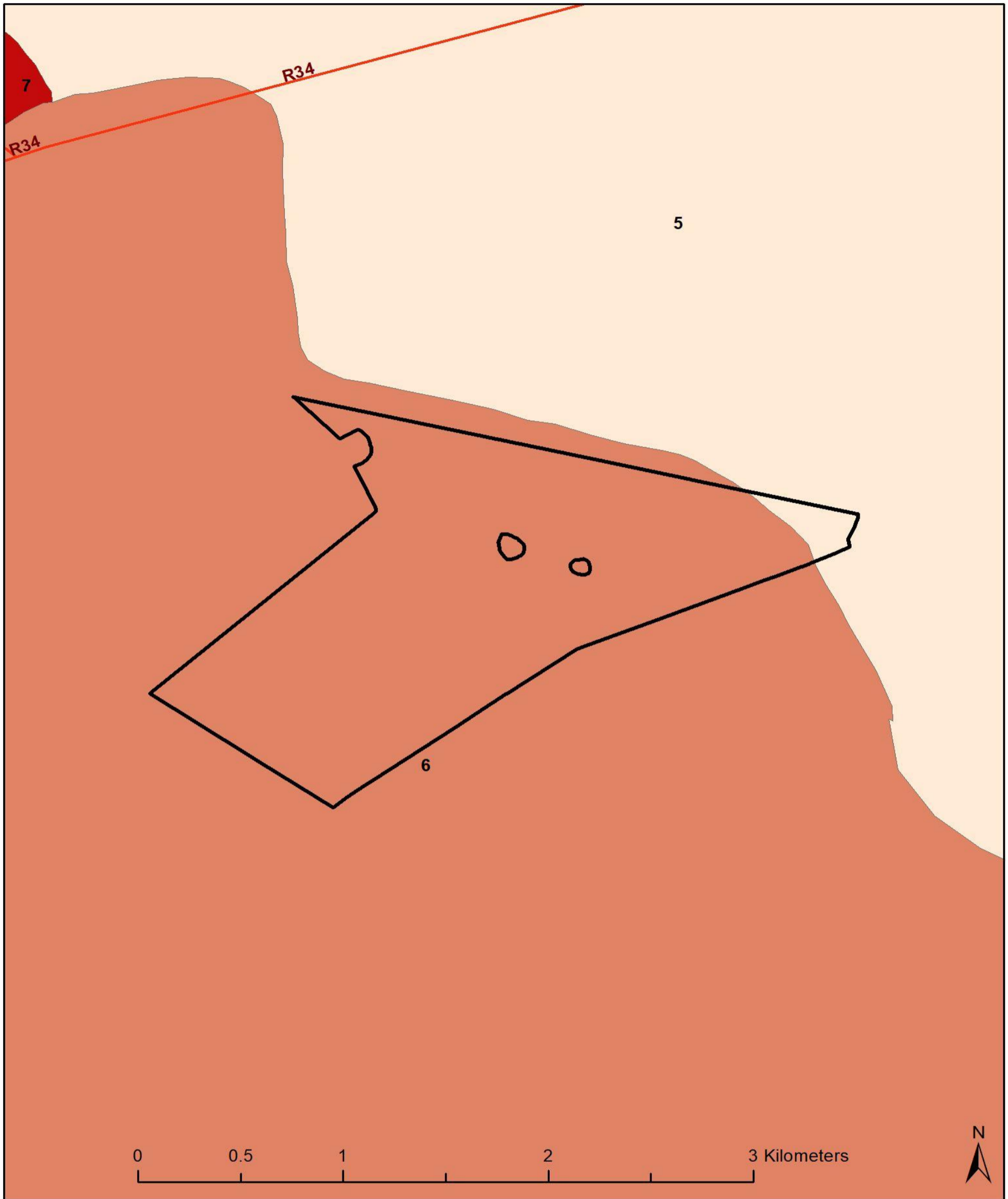
- Non-pivot irrigated Annual Crop Cultivation / Planted Pastures
- Old Fields
- Rainfed Annual Crop Cultivation / Planted Pastures
- Pivot Irrigation

- PV development area (276.8 ha)
- Road
- Rivers



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Figure 7.3: DAFF (2017) dataset for the development area and broader area. Please note, no crop cultivation has been implemented on site since 2005 due to difficulties in profitable cultivation of the development site.



Legend

Grazing capacity (ha/LSU)

- 5
- 6
- 7

- PV development area (276.8 ha)
- Road



Figure 7.4: Long-term grazing capacity of the development area.



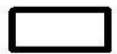
Legend

Land type

-  Bd21
-  Db1

-  Dc10

-  Dc6

-  PV development area (276.8 ha)

-  Road



Figure 7.5: Land type classification of the development area.

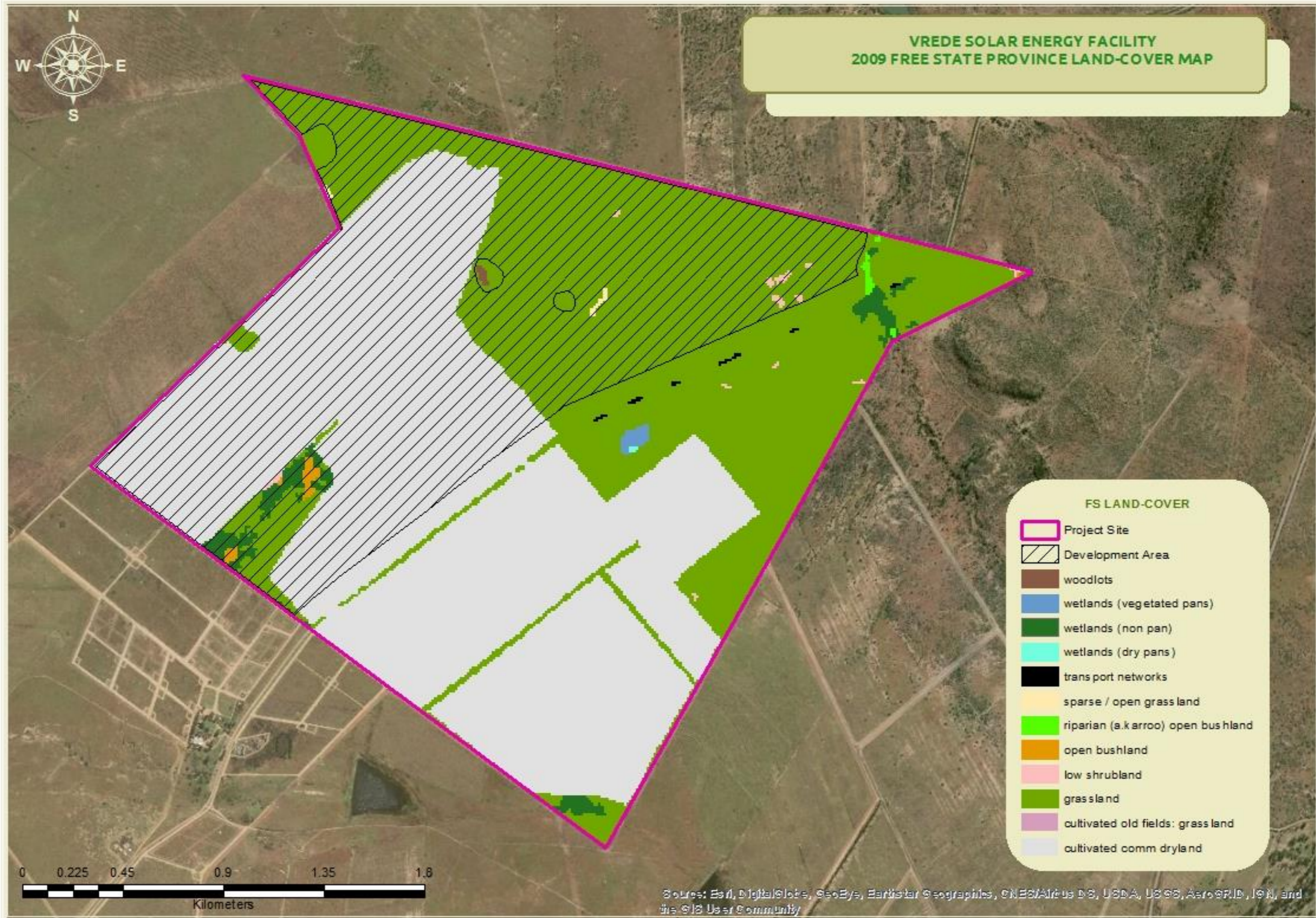


Figure 7.6: Free State Land Cover Map (2009) for the development area.

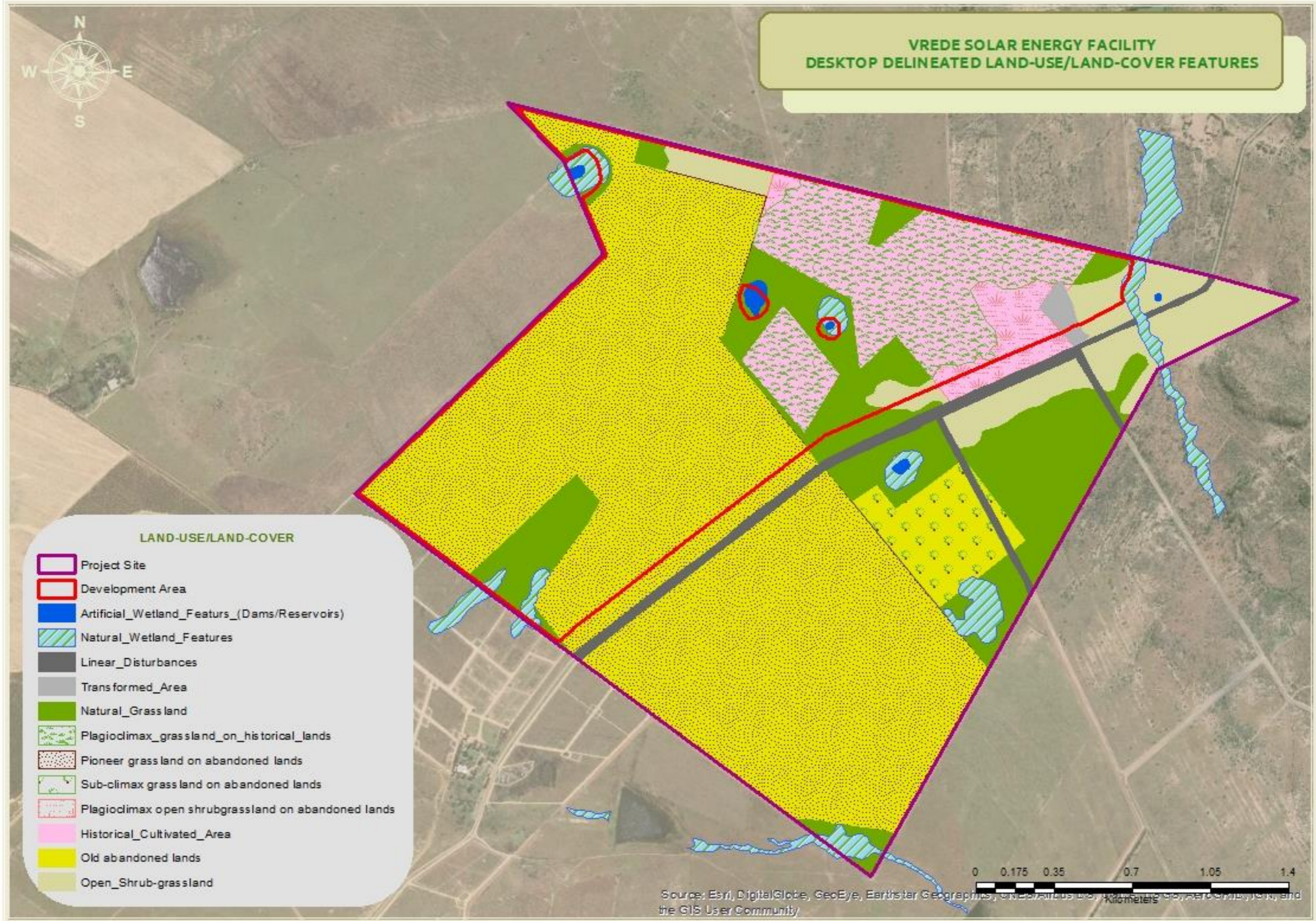


Figure 7.7: Desktop land use map of the development area, to be refined during the EIA phase assessments.

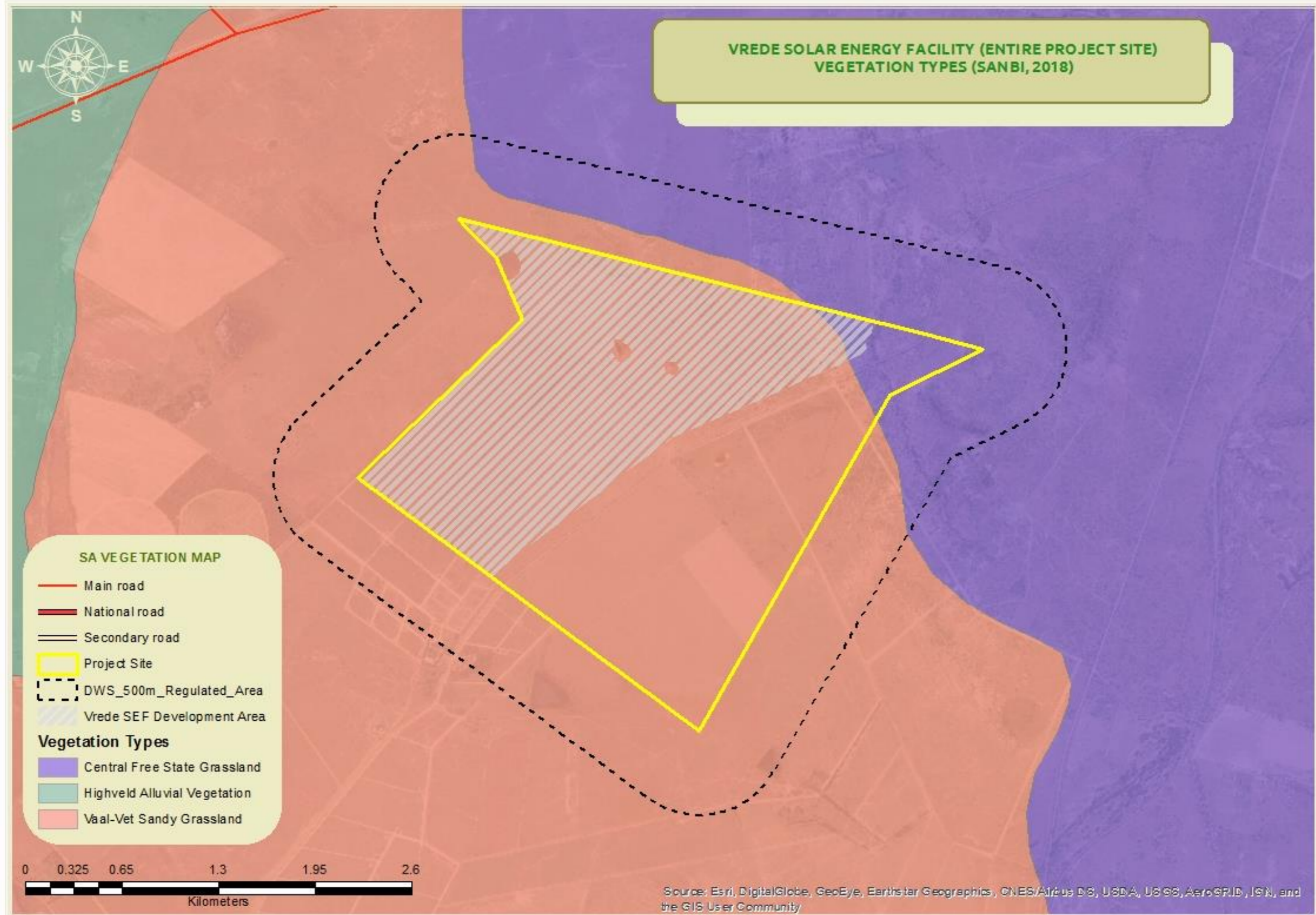


Figure 7.8: Vegetation map of the project site and development area (SANBI, 2018).

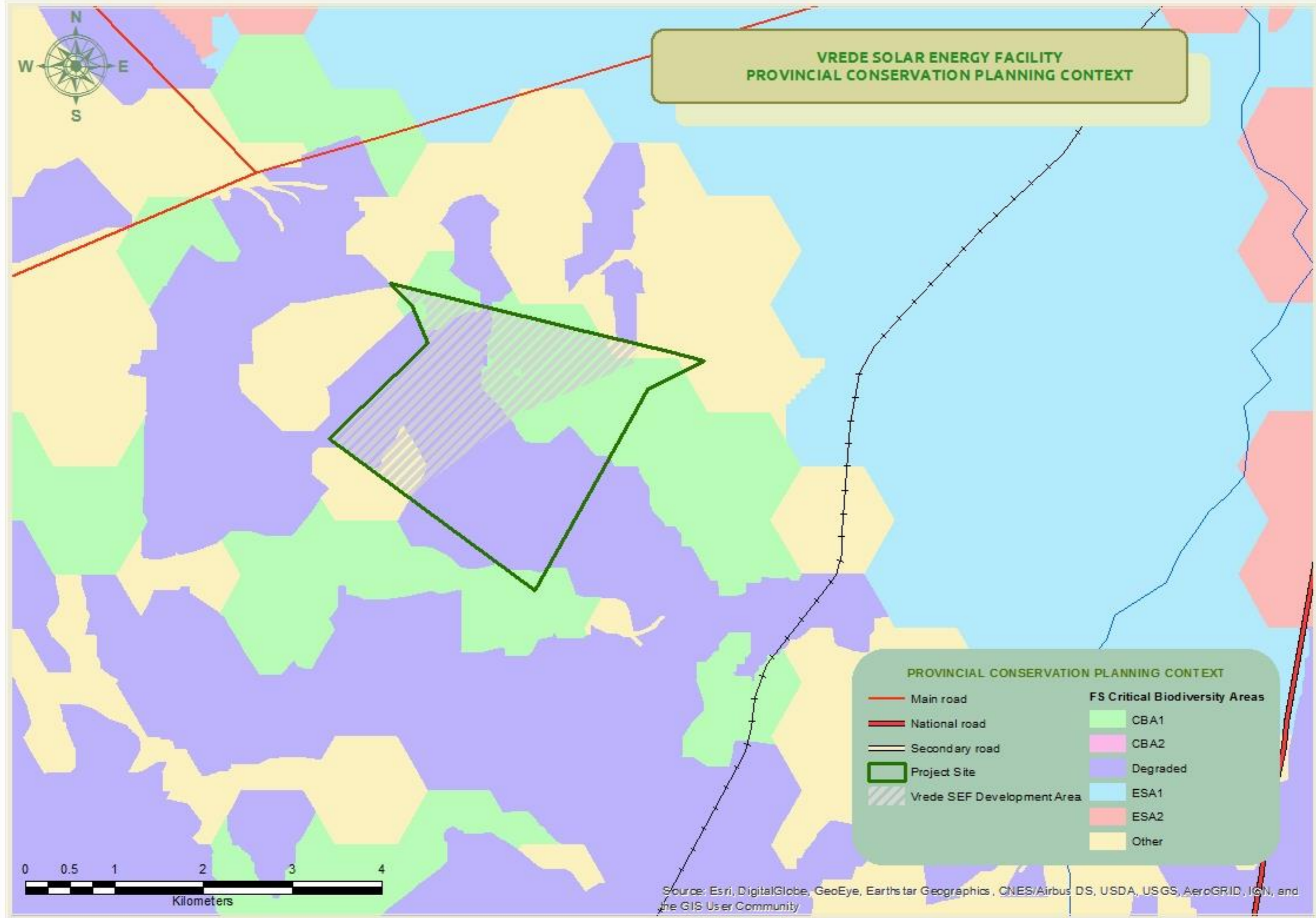


Figure 7.9: Provincial Level Conservation Planning Context – CBA Map (Free State Province Biodiversity Conservation Assessment).

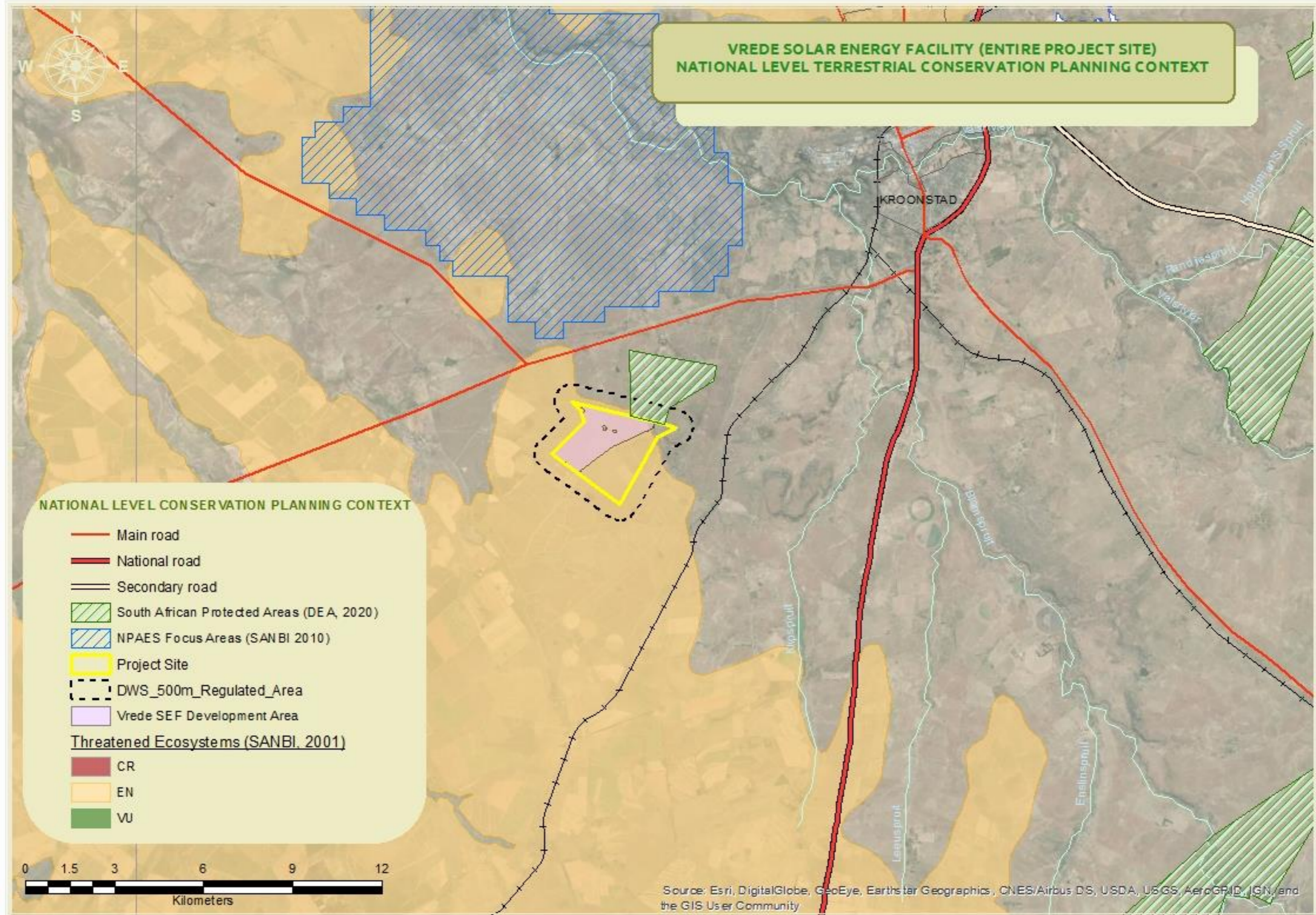


Figure 7.9: National Level Terrestrial Conservation Planning Context.

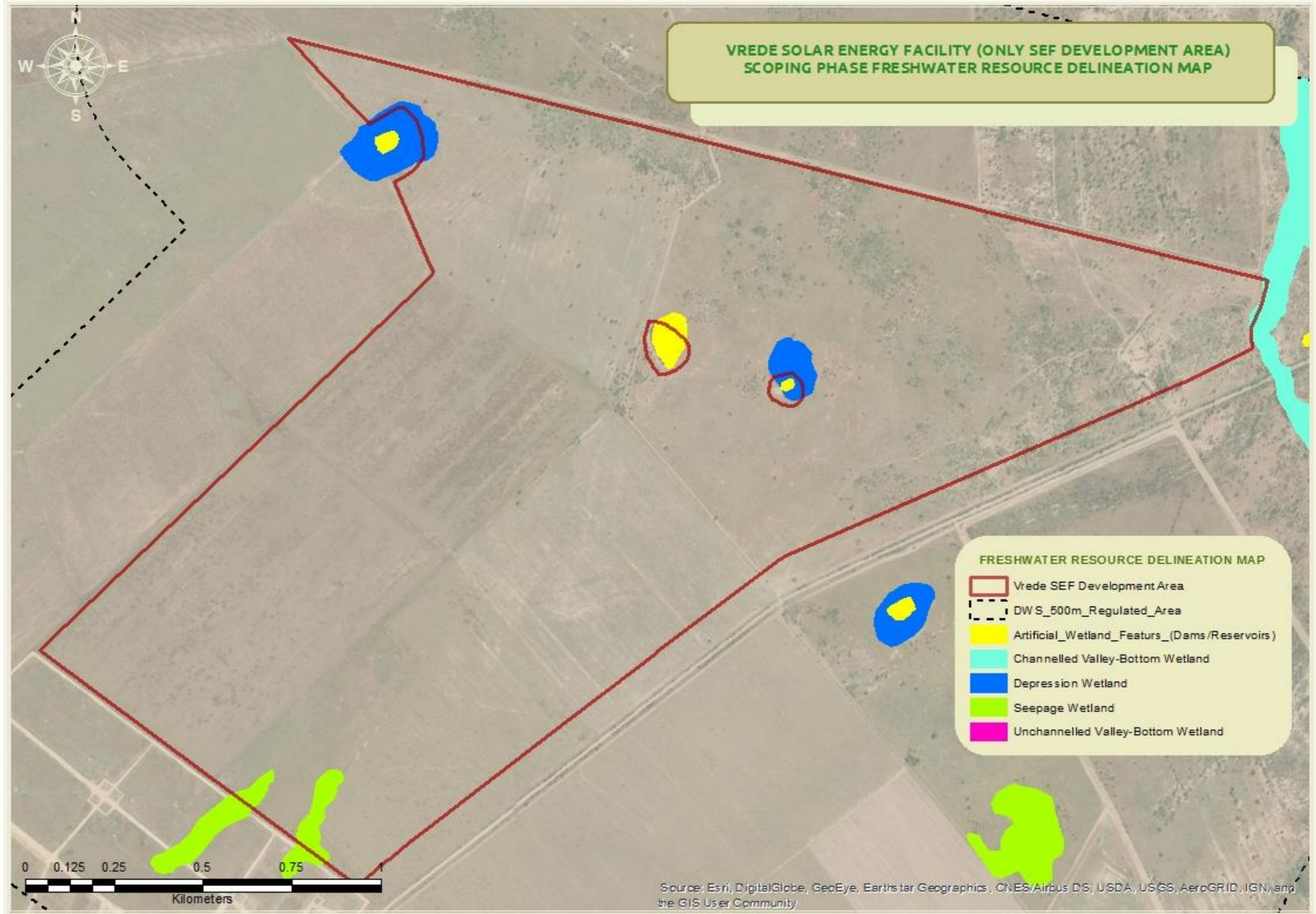


Figure 7.10: Desktop wetland delineation within the development area, to be confirmed during the EIA phase assessments.

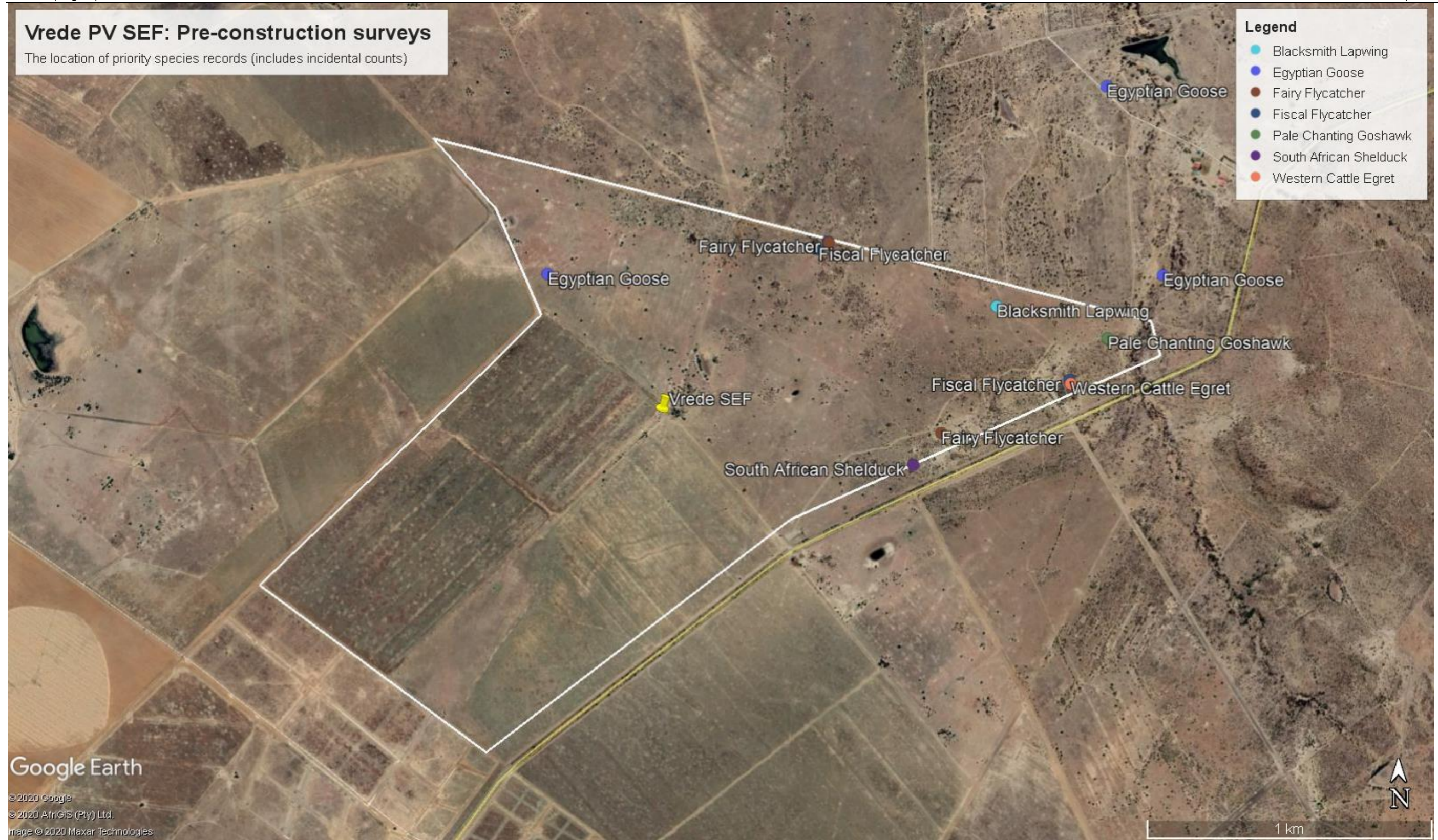


Figure 7.14: The location of priority species recorded during transect and incident counts.

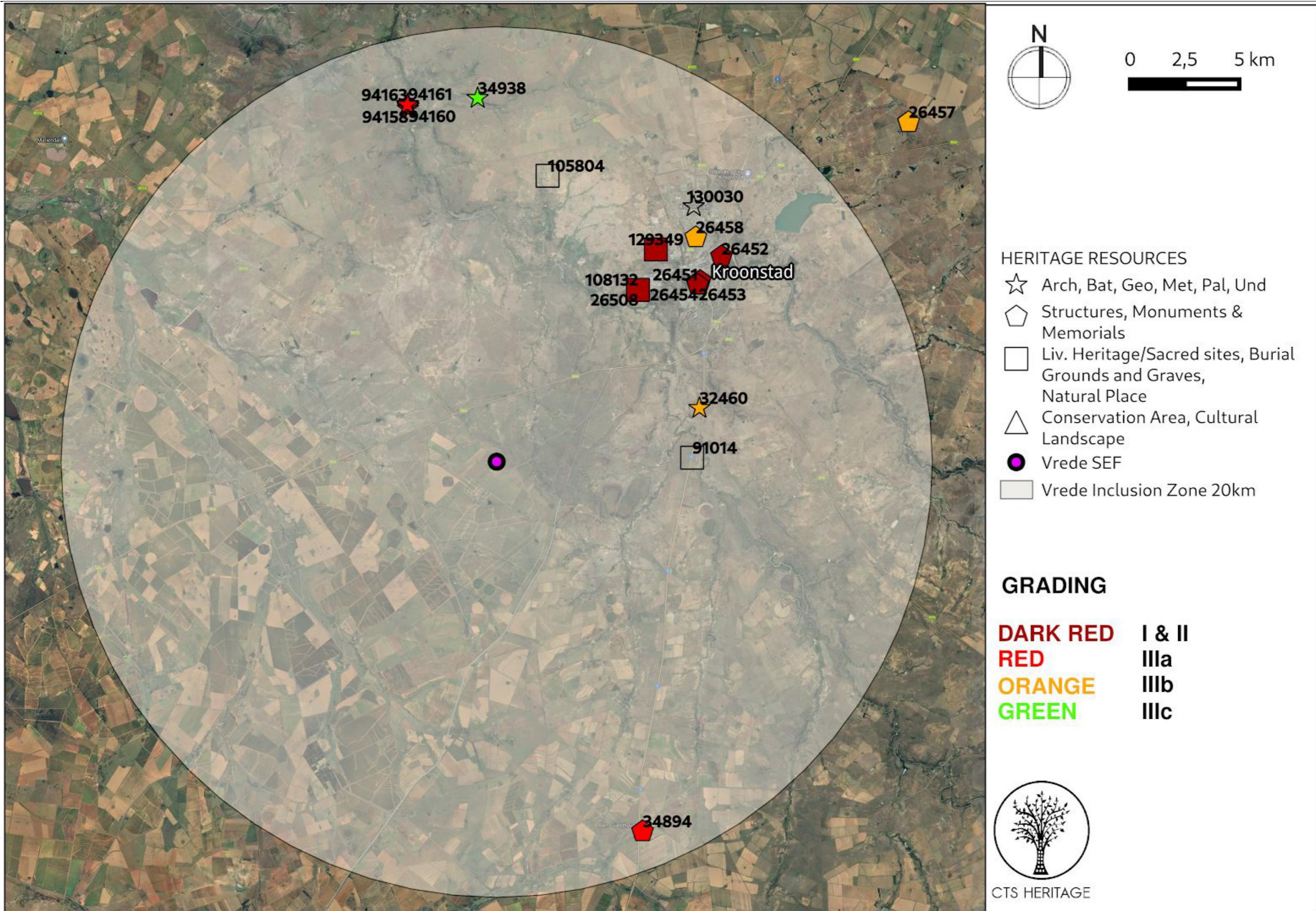


Figure 7.15: Heritage Resources previously identified within the study area, with SAHRIS Site IDs indicated in the insets below.

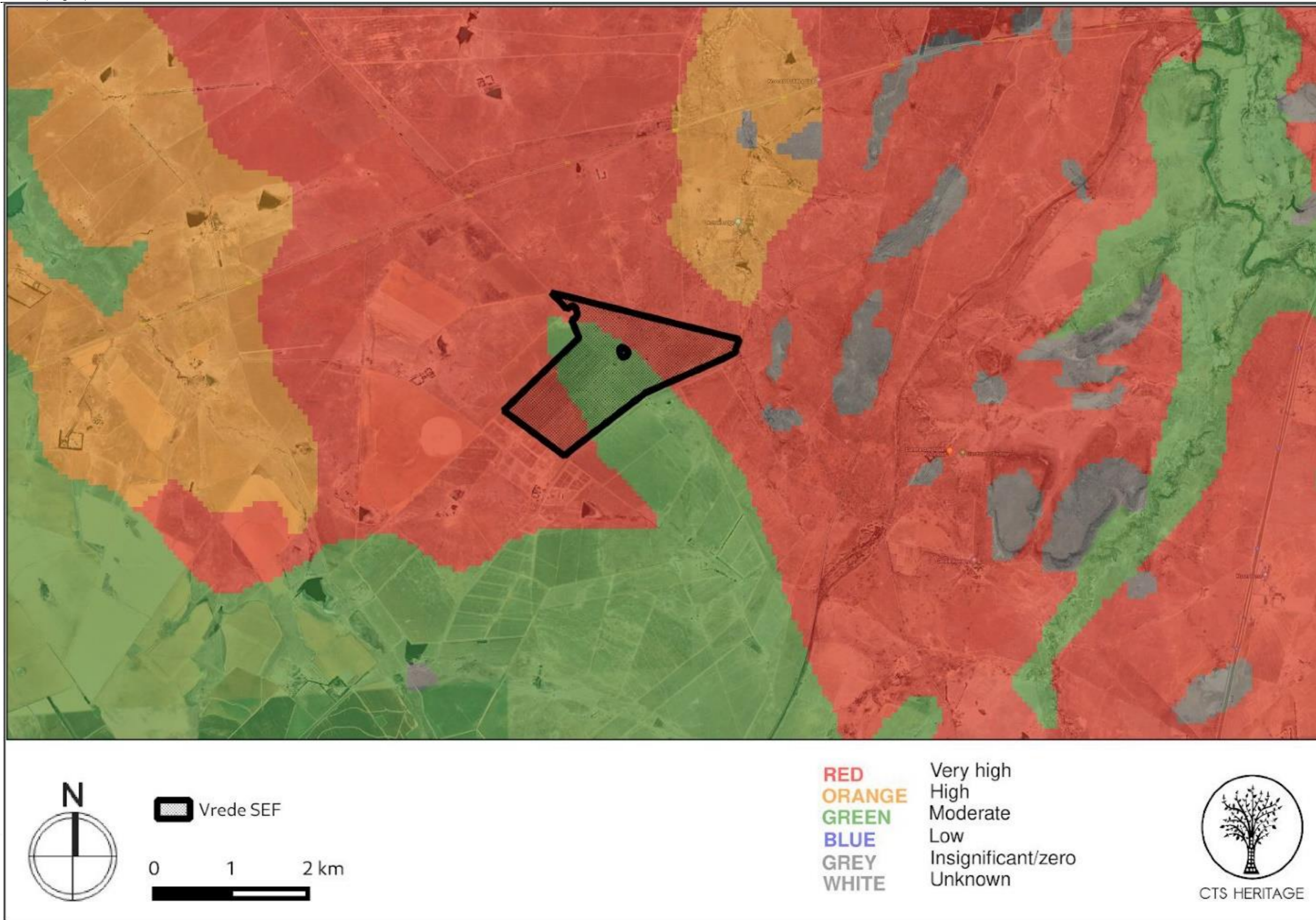


Figure 7.16: Heritage Resources previously identified within the study area, with SAHRIS Site IDs indicated in the insets below.

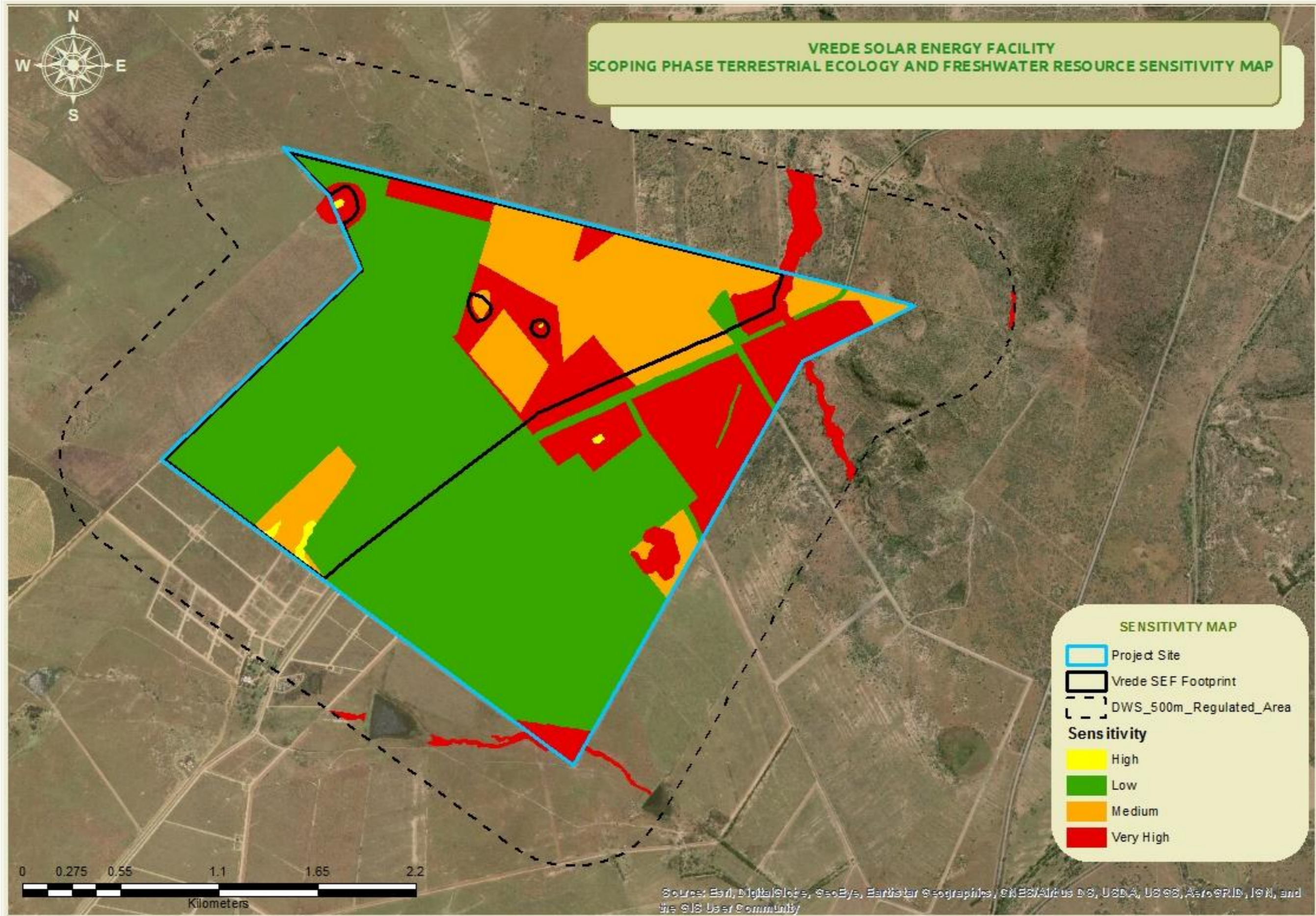


Figure 8.1. Preliminary ecological sensitivity map of the project site.

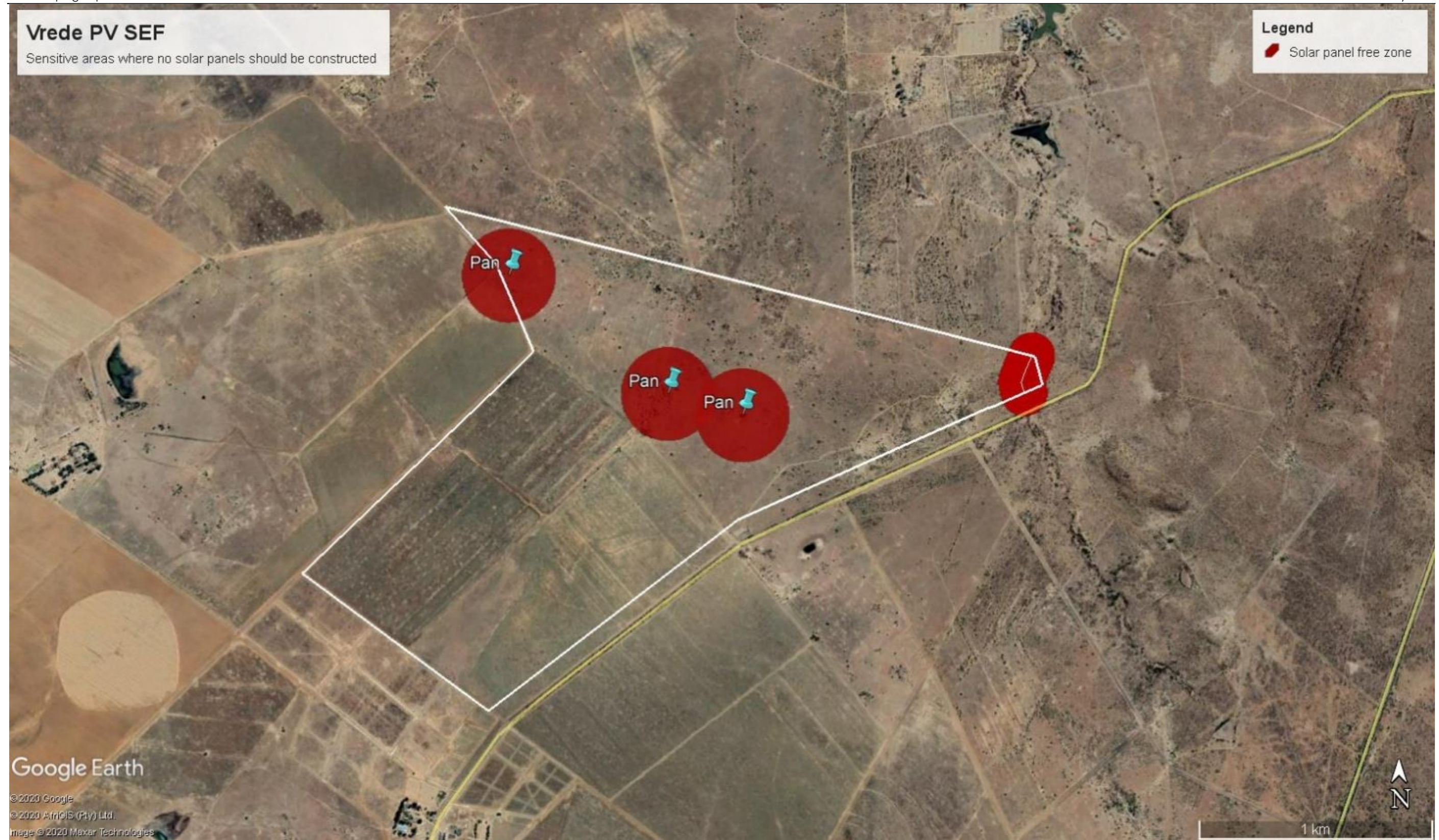


Figure 8.4. Avifaunal sensitivities (PV solar) at the Vrede PV facility and associated infrastructure.

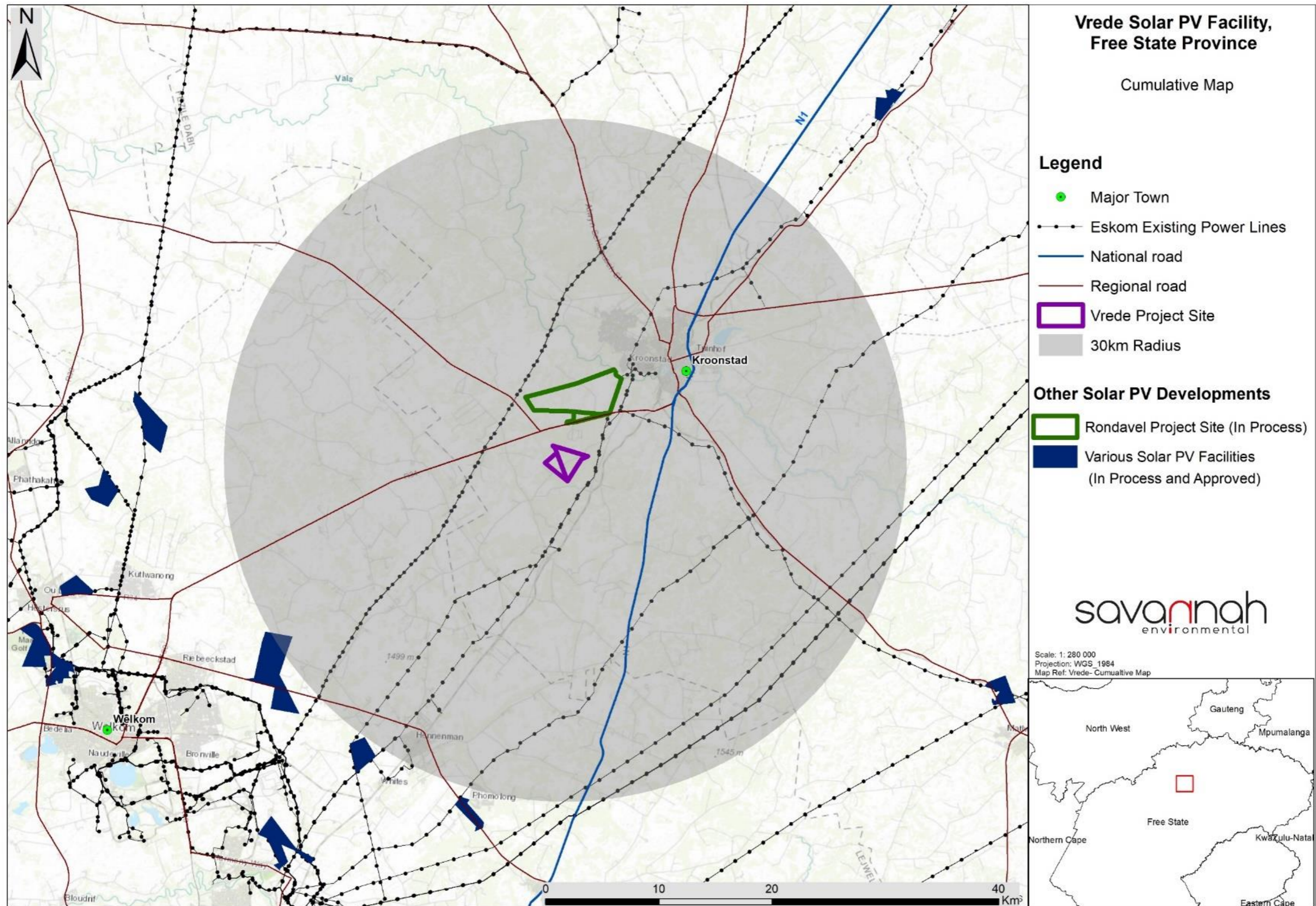


Figure 8.5: Cumulative map illustrating other approved and/or constructed PV facilities located within the vicinity of the project site.

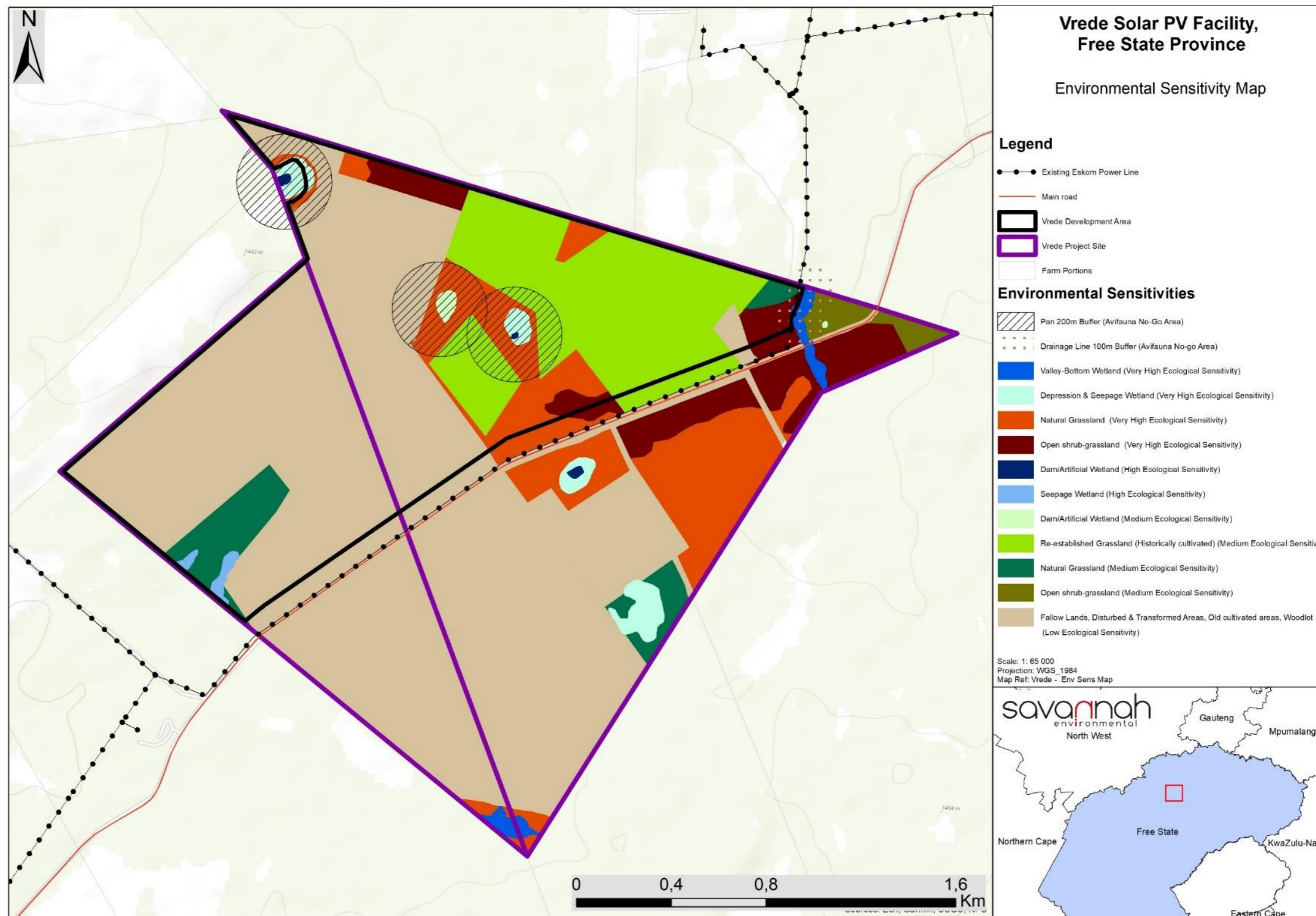


Figure 9.1: Environmental Sensitivity Map from the results of the scoping evaluation for the Vrede Solar PV Facility, indicating the recommended development envelope.

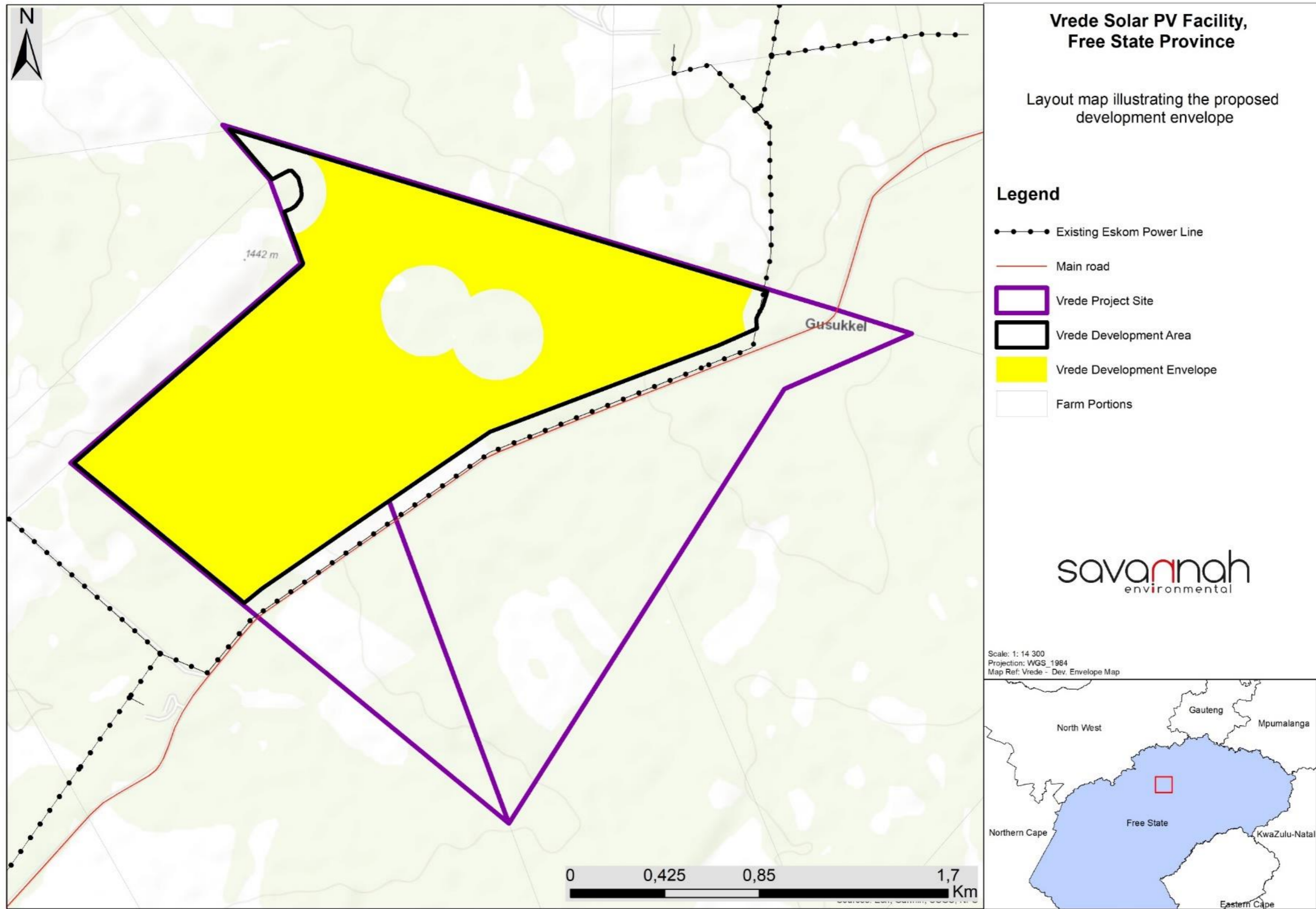


Figure 9.2: Development envelope to be assessed in detail as part of the EIA Phase and within which the project development footprint/layout will be designed