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HERITAGE SCREENER

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| CTS Reference Number: | CTS18_158 |
| SAHRA Case No: | |
| Client: | Savannah Environmental |
| Date: | 17 September 2018 |
| Author: | Jenna Lavin |
| Title: | Proposed development of Allepad PV Four, a solar PV facility and associated infrastructure on a site near Upington, in the Northern Cape Province. |
| Recommendation by CTS Heritage Specialists | RECOMMENDATION: The heritage resources in the area proposed for development are not sufficiently recorded. Based on the available information, including the scale and nature of the proposed development, it is likely that significant heritage resources will be impacted by the proposed development and as such it is recommended that an archaeological field assessment be conducted to inform a full Heritage Impact Assessment (see section 8 for details) |

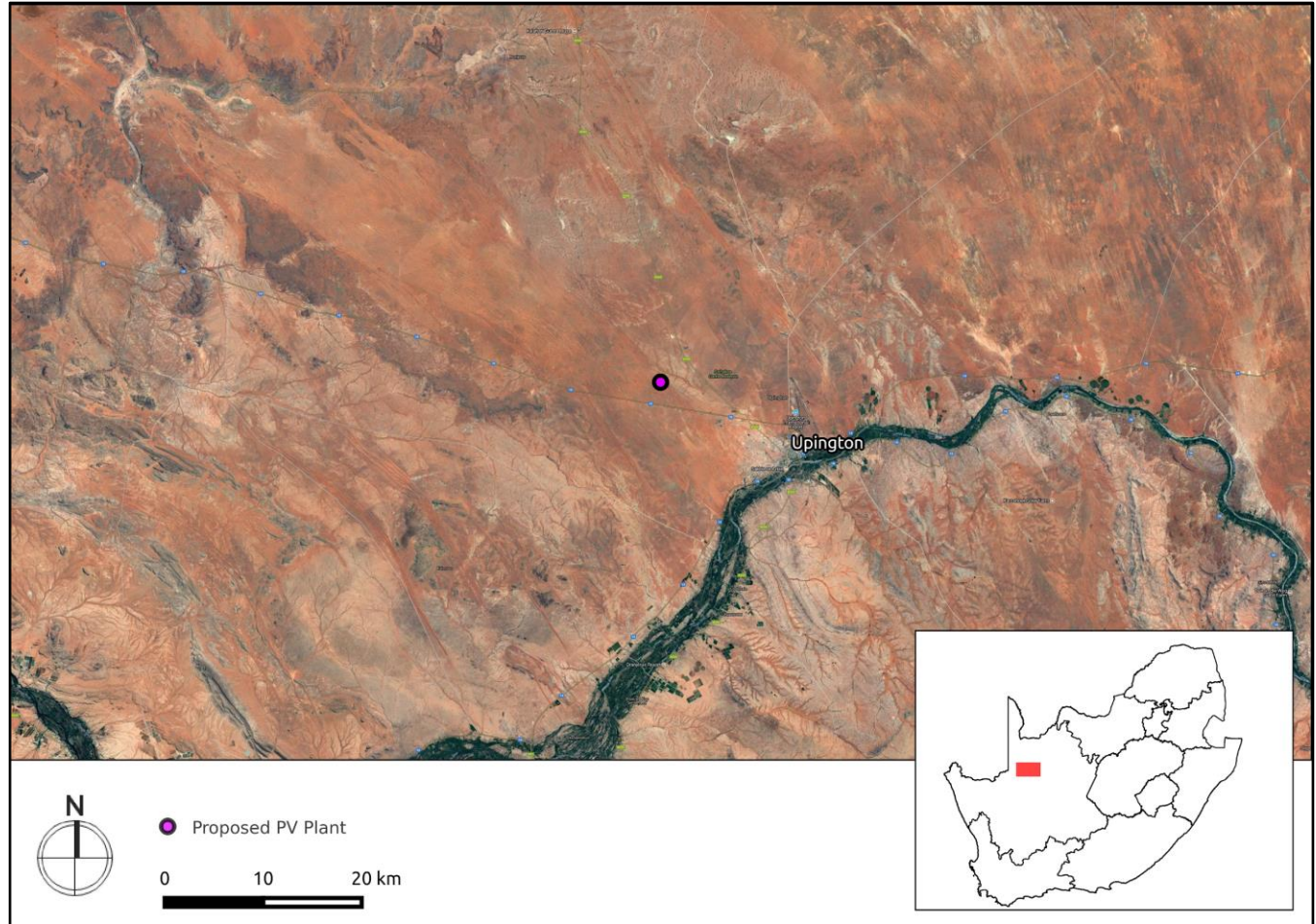


Figure 1a. Satellite map indicating the location of the proposed development in the Northern Cape Province

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1. Proposed Development Summary

Allepad PV Four, a commercial solar PV energy generation facility and associated infrastructure, is proposed on a site near Upington, in the Northern Cape Province. The project is intended to be bid into the Department of Energy's (DoE's) Renewable Energy Independent Power Producer Procurement (REIPPP) Programme, with the aim of evacuating power generated by the project into the Eskom national electricity grid. The project is proposed on a portion of the Remaining Extent of Erf 5315, located approximately 11km north-west of Upington. The area under investigation is approximately 3 889ha in extent and comprises a single agricultural property. The project site can be accessed directly via the N10 national road which borders the southern boundary of the site.

Photovoltaic (PV) technology is proposed for the generation of electricity. The solar energy facility will have a contracted capacity of up to 100MW, and will make use of either fixed-tilt, single-axis tracking, or double axis tracking PV technology. The solar energy facility will comprise the following key infrastructure components:

- » Arrays of PV panels with a generation capacity of up to 100MW.
- » Mounting structures to support the PV panels.
- » Combiner boxes, on-site inverters (to convert the power from Direct Current (DC) to Alternating Current (AC)), and power transformers.
- » An on-site substation up to 1ha in extent to facilitate the connection between the solar energy facility and the Eskom electricity grid.
- » A new 132kV power line approximately 5km in length, between the on-site substation and Eskom grid connection point.
- » Cabling between the project's components (to be laid underground where practical).
- » Meteorological measurement station.
- » Energy storage area of up to 2ha in extent.
- » Access road and internal access road network.
- » On-site buildings and structures, including a control building and office, ablutions and guard house.
- » Perimeter security fencing, access gates and lighting.
- » Temporary construction equipment camp up to 1ha in extent, including temporary site offices, parking and chemical ablution facilities.
- » Temporary laydown area up to 1ha in extent, for the storage of materials during the construction.

Electricity generated by the project will feed into Eskom's national electricity grid via a new 132kV power line which will connect the on-site substation to the upgraded 132kV double circuit power line running between the new Upington Main Transmission Substation (MTS) (currently under construction approximately 15km south of the project site), and the Gardonia Distribution Substation (located in Upington town). The point of connection is located approximately 5km east of the project site, and will make use of a loop-in and loop-out configuration. The proposed power line required for the project will be constructed within a 300m wide power line corridor which has been identified immediately north of, and which runs parallel to, the N10 national road. The full extent of the project site (i.e. 3 889ha) is being assessed as part of the EIA process, of which an area of approximately 250ha (equivalent to 6.4% of the total project area) would be required for the development of the solar energy facility and associated infrastructure.

2. Application References

| | |
|---|-------|
| Name of relevant heritage authority(s) | SAHRA |
| Name of decision making authority(s) | DEA |

3. Property Information



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| | |
|--------------------------------------|---------------------------|
| Latitude / Longitude | 28°23'8.36"S 21° 7'6.22"E |
| Erf number / Farm number | Erf 5315 |
| Local Municipality | Dawid Kruiper |
| District Municipality | ZF Mgcawu |
| Previous Magisterial District | Gordonia |
| Province | Northern Cape |
| Current Use | None |
| Current Zoning | Agriculture |
| Total Extent | 3889ha |

4. Nature of the Proposed Development

| | |
|--|-------|
| Total Surface Area | 250ha |
| Depth of excavation (m) | 3m |
| Height of development (m) | 3m |
| Expected years of operation before decommission | NA |

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5. Category of Development

| | |
|----------|---|
| x | Triggers: Section 38(8) of the National Heritage Resources Act |
| | Triggers: Section 38(1) of the National Heritage Resources Act |
| | 1. Construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier over 300m in length. |
| | 2. Construction of a bridge or similar structure exceeding 50m in length. |
| | 3. Any development or activity that will change the character of a site- |
| x | a) exceeding 5 000m ² in extent |
| | b) involving three or more existing erven or subdivisions thereof |
| | c) involving three or more erven or divisions thereof which have been consolidated within the past five years |
| | 4. Rezoning of a site exceeding 10 000m ² |
| | 5. Other (state): |

6. Additional Infrastructure Required for this Development

It is proposed that the project connects to the upgraded 132kV double circuit line which runs approximately 5km east of the project site, between the new Upington MTS (currently under construction approximately 15km south of the project site) and the Gordonia Distribution substation (located in Upington town). Grid connection will make use of a "loop in-and-loop out" configuration. The shortest route is along the N10 in a 300m wide corridor, that connects all four projects.

7. Mapping (please see Appendix 3 and 4 for a full description of our methodology and map legends)

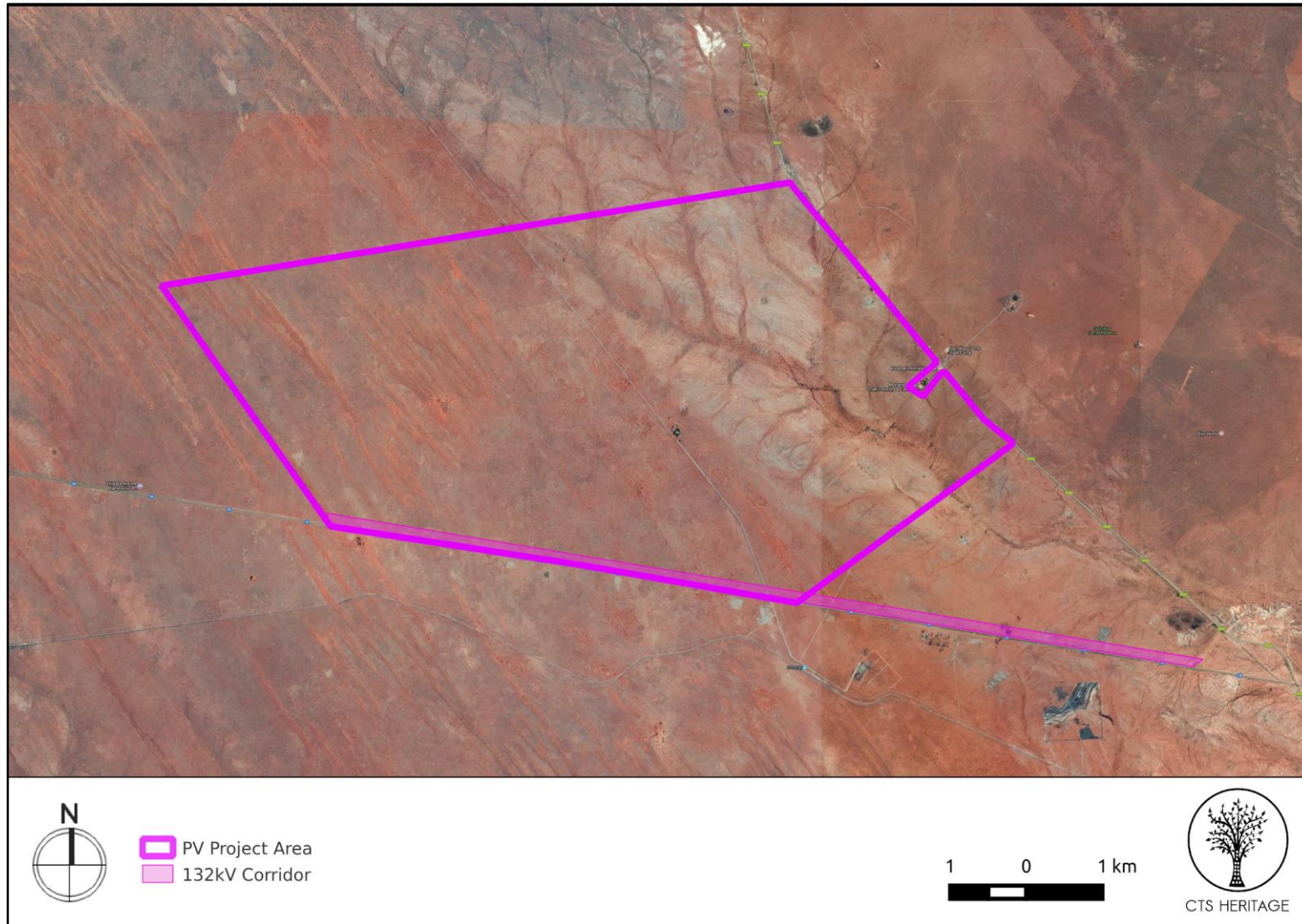


Figure 1b. Overview Map. Satellite image (2017) indicating the proposed development area at closer range.

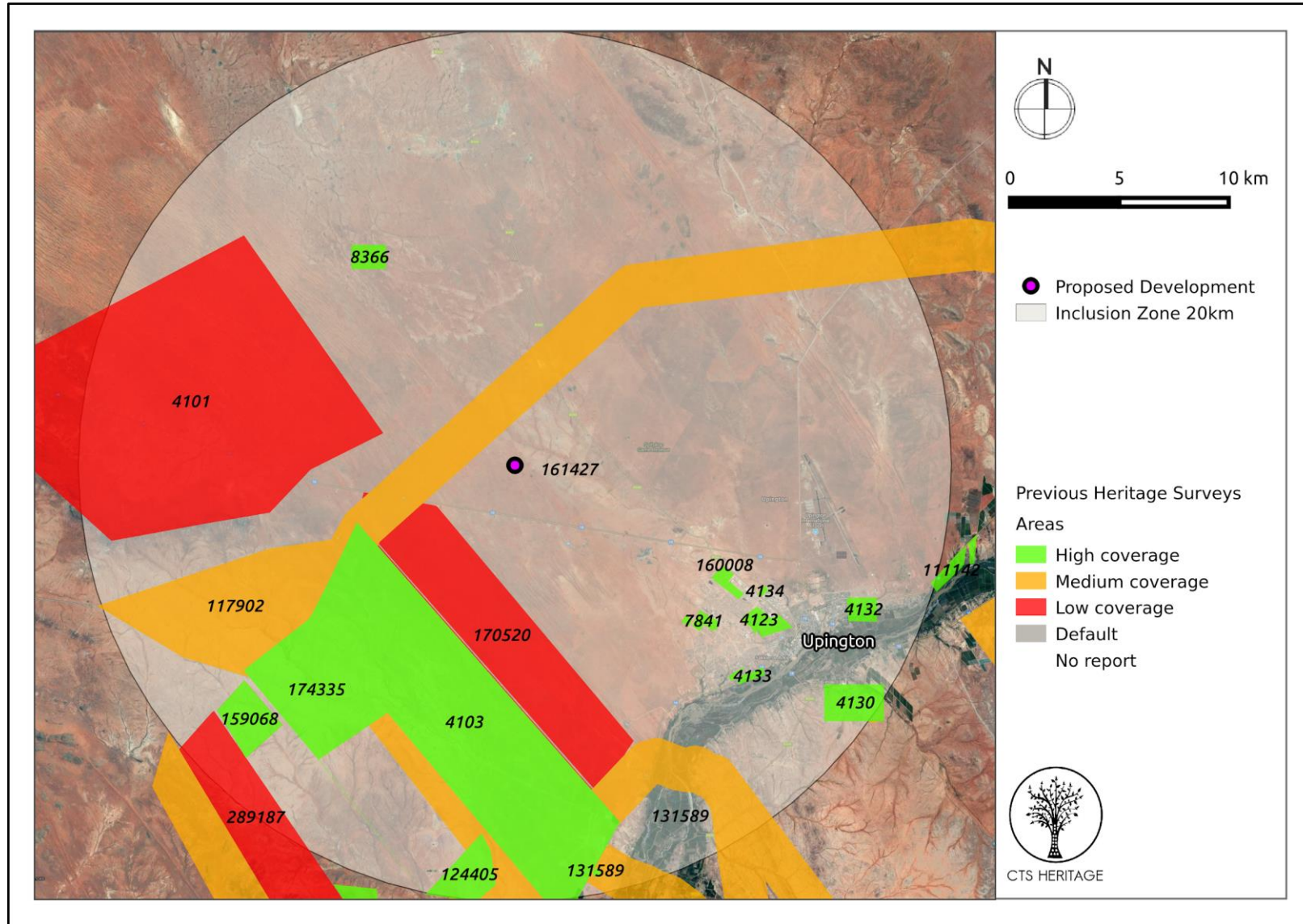


Figure 2. Previous HIAs Map. Previous Heritage Impact Assessments surrounding the proposed development area within 5km, with SAHRIS NIDS indicated. Please see Appendix 2 for full reference list.

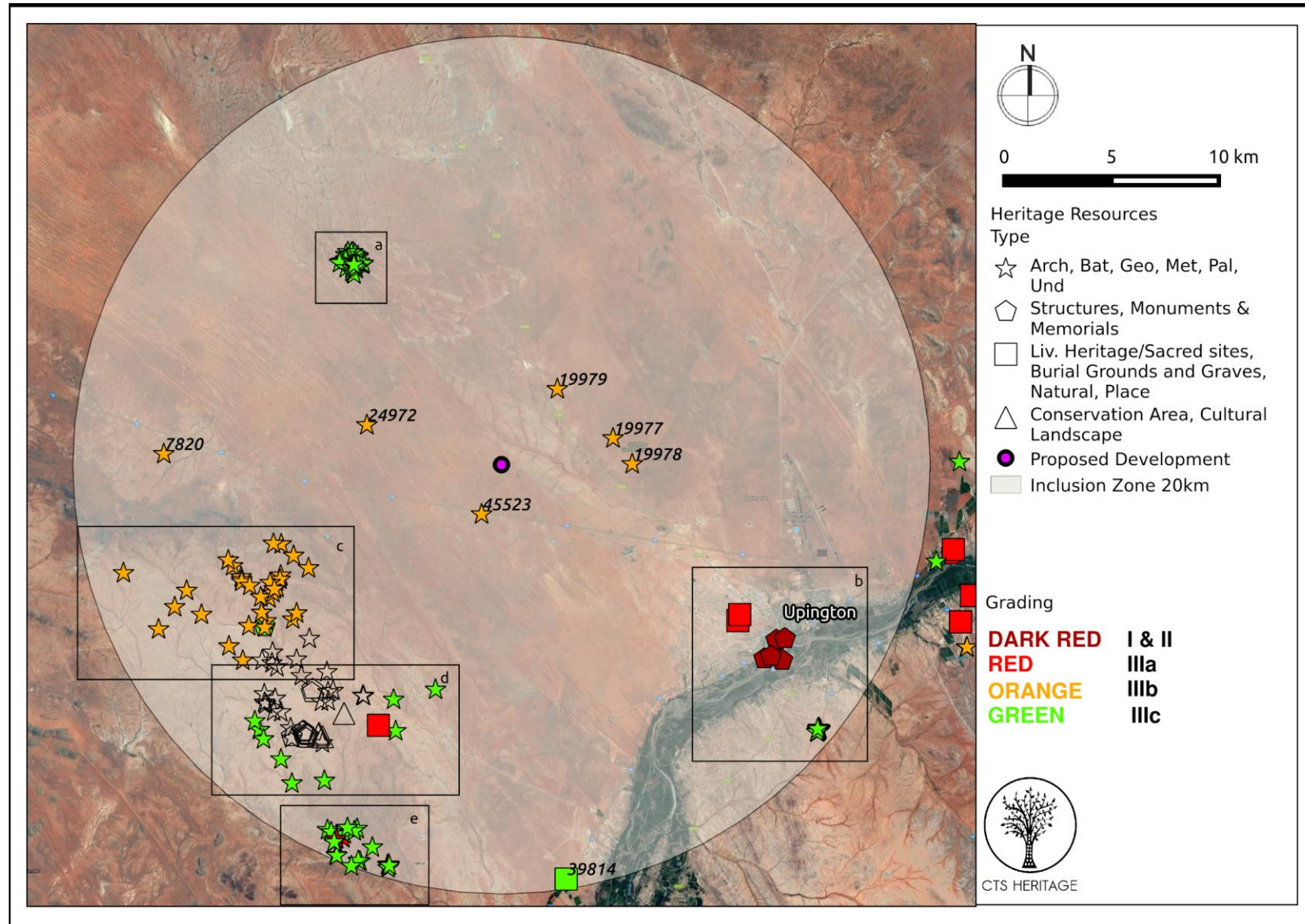


Figure 3. Heritage Resources Map. Heritage Resources previously identified in and near the study area, with SAHRIS Site IDs indicated (see Figure 3a for inset). Please See Appendix 4 for full description of heritage resource types.



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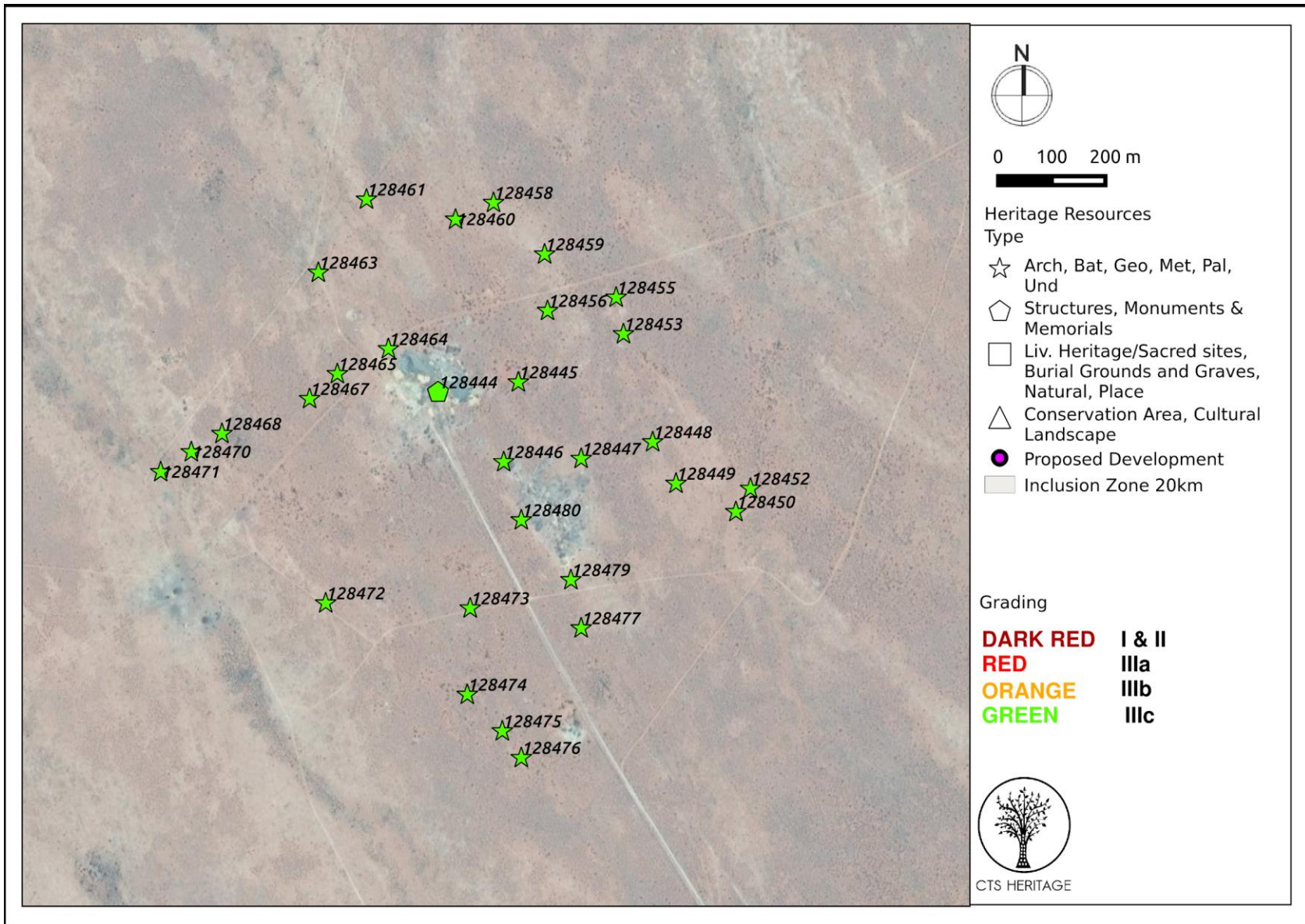


Figure 3a. Heritage Resources Map.

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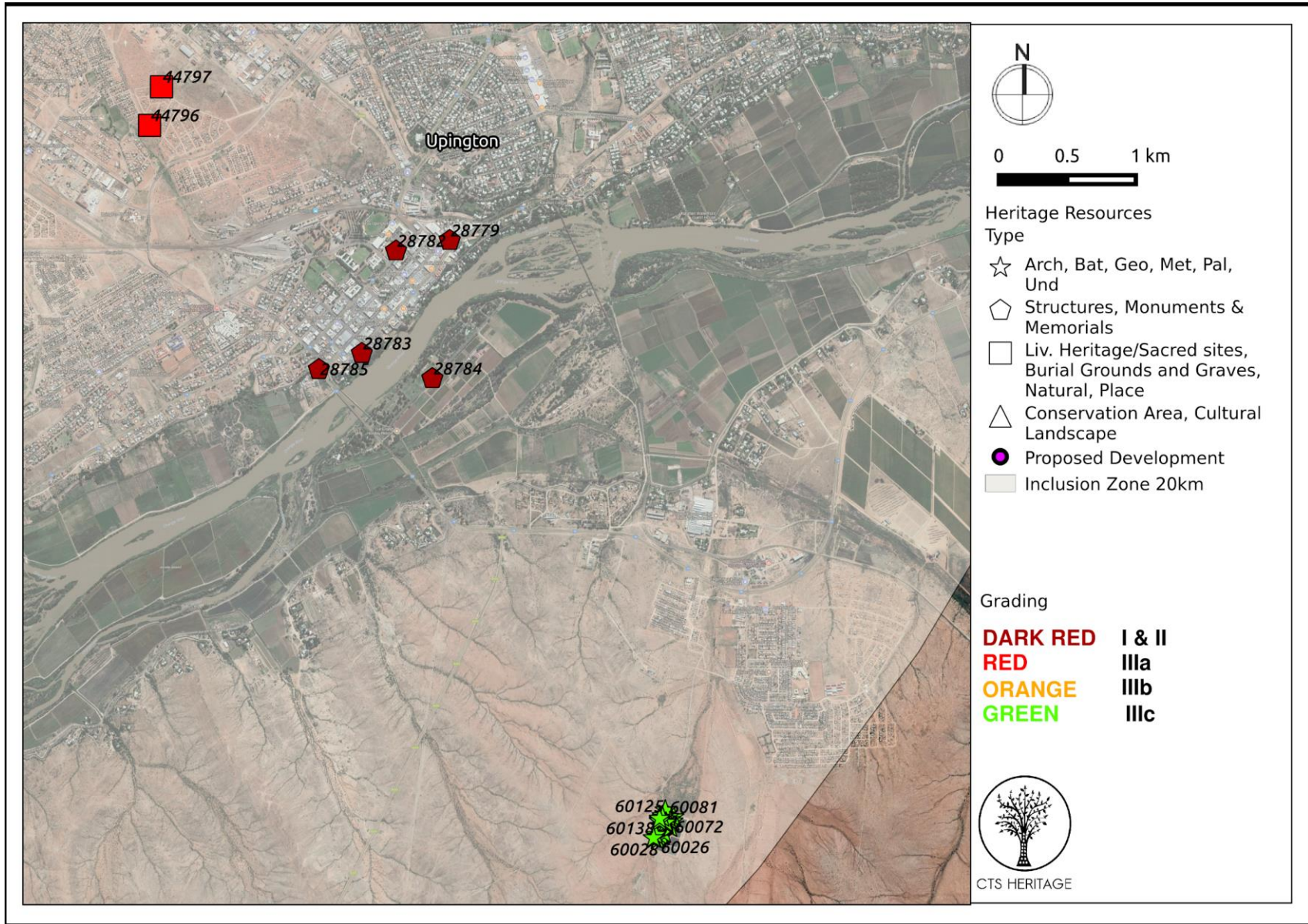


Figure 3b. Heritage Resources Map.

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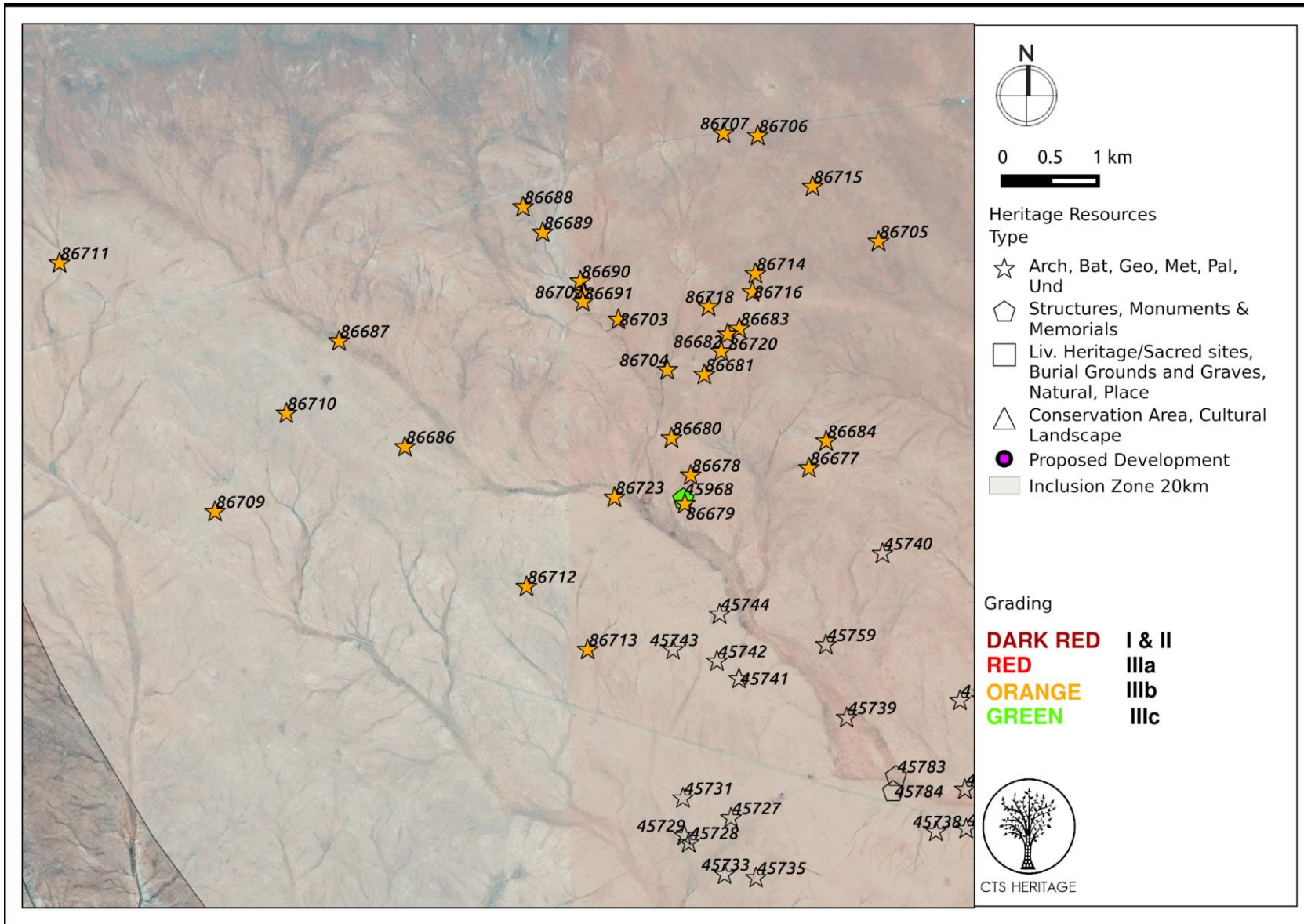


Figure 3c. Heritage Resources Map.

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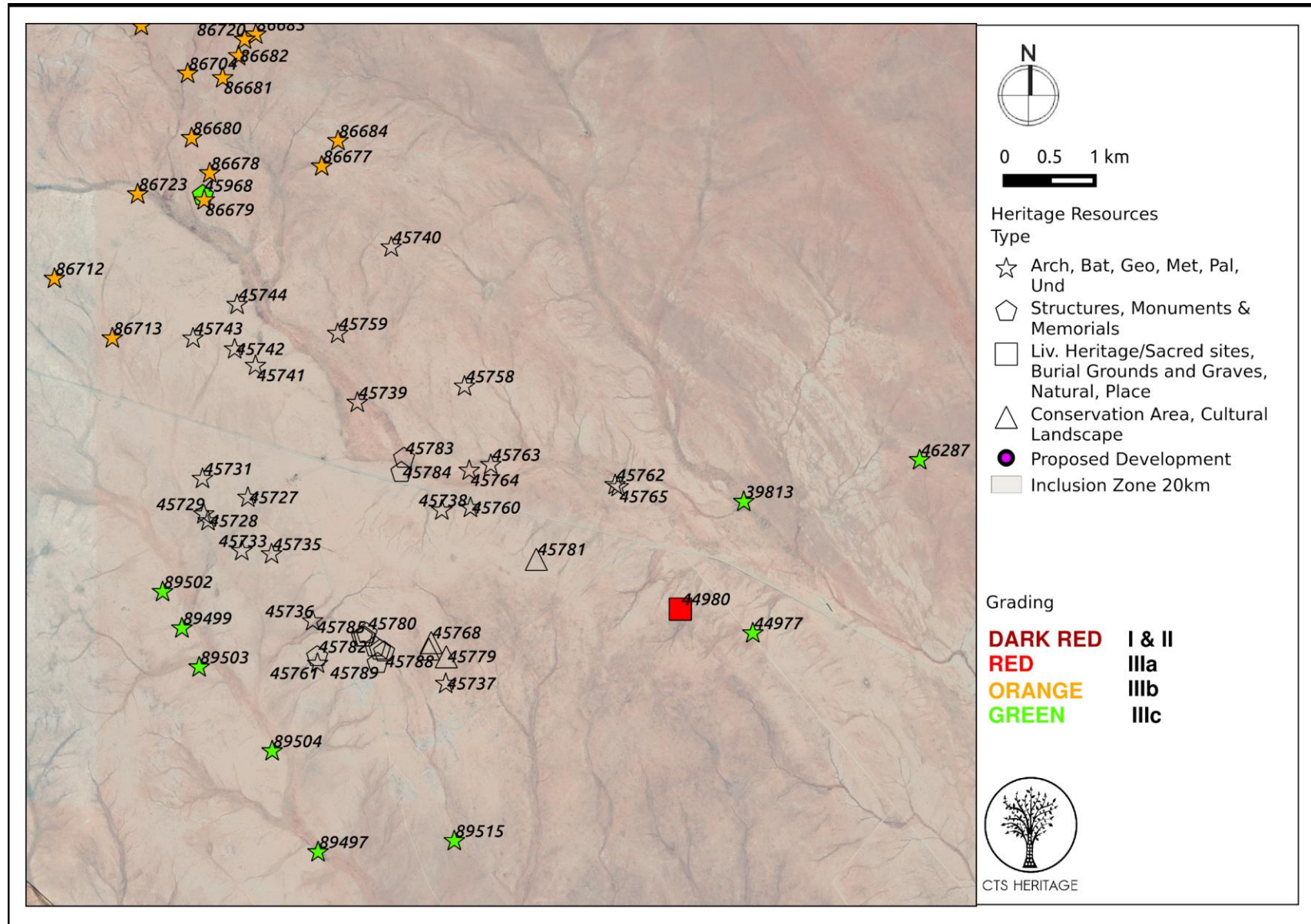


Figure 3d. Heritage Resources Map.

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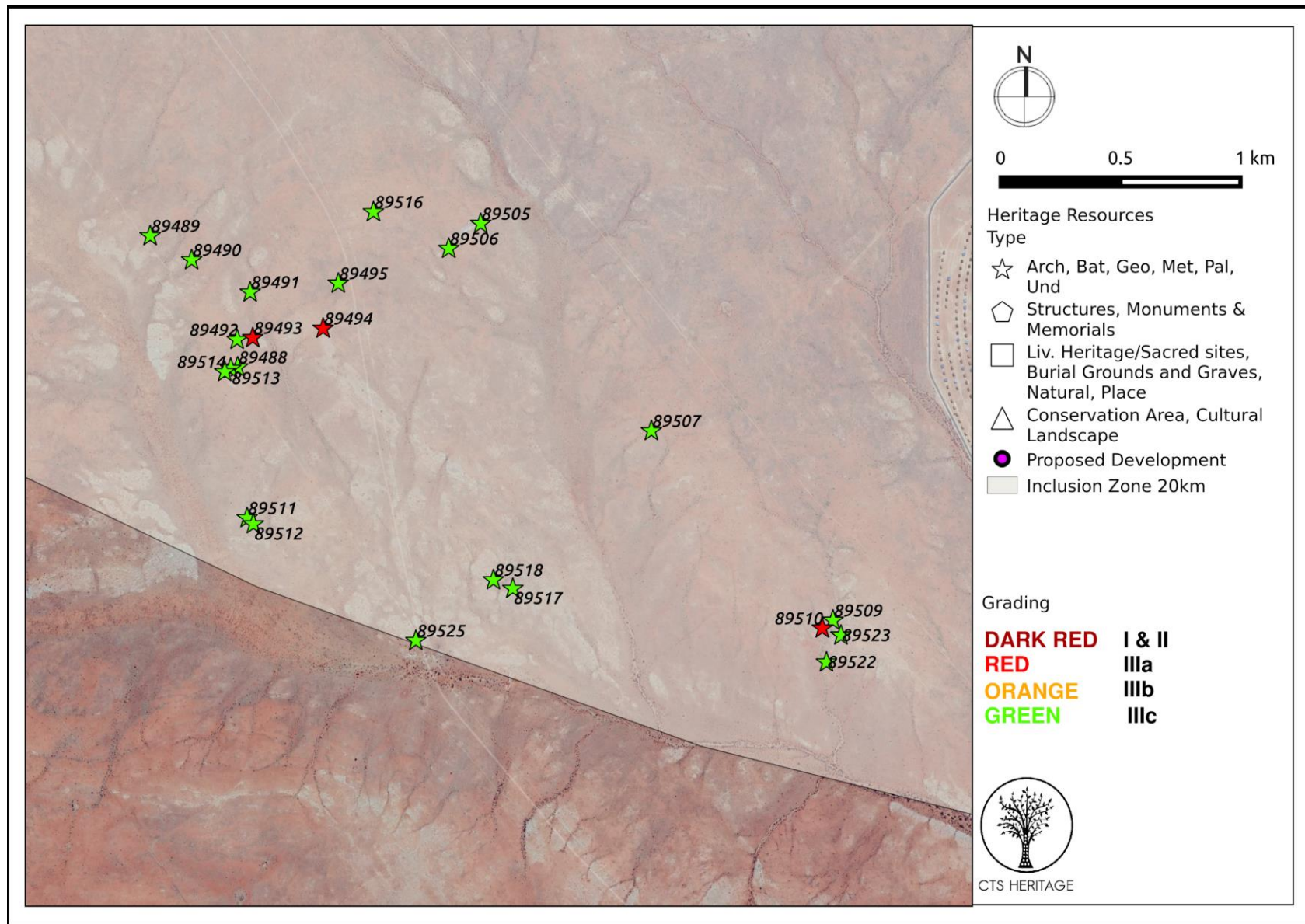


Figure 3e. Heritage Resources Map.

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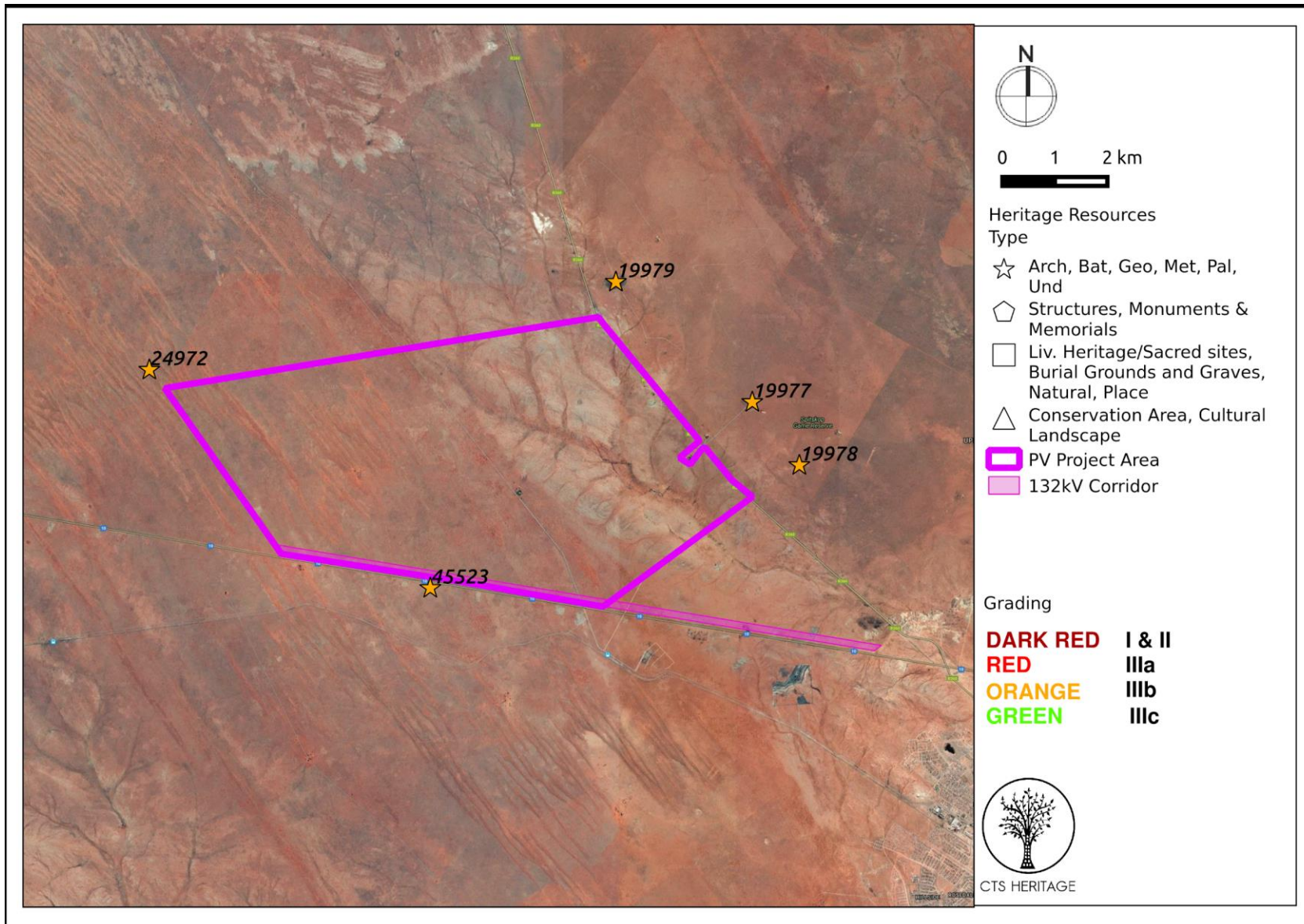


Figure 3f. Heritage Resources Map.

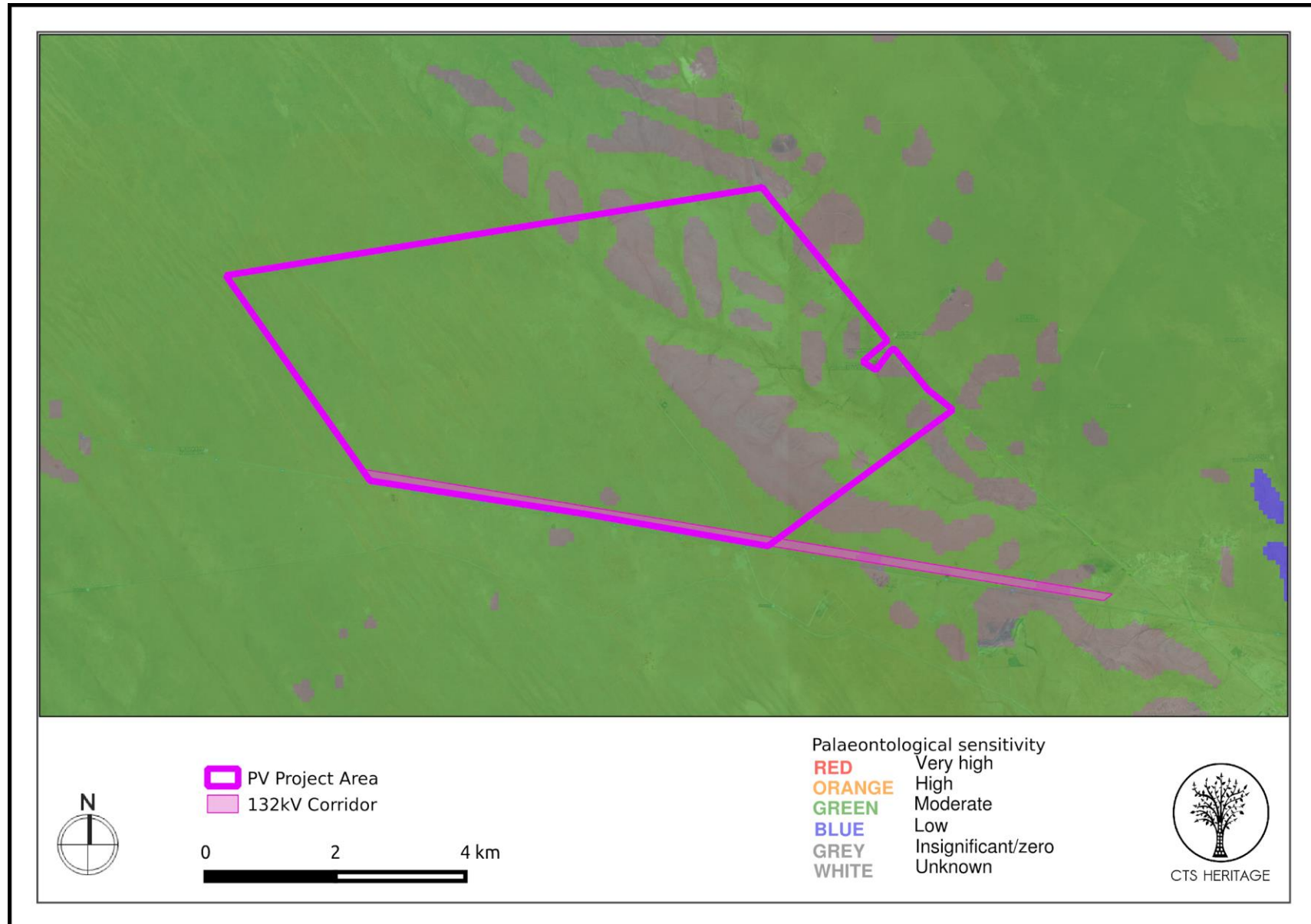


Figure 4. Palaeosensitivity Map. Indicating varied fossil sensitivity underlying the study area. Please See Appendix 3 for full guide to the legend.



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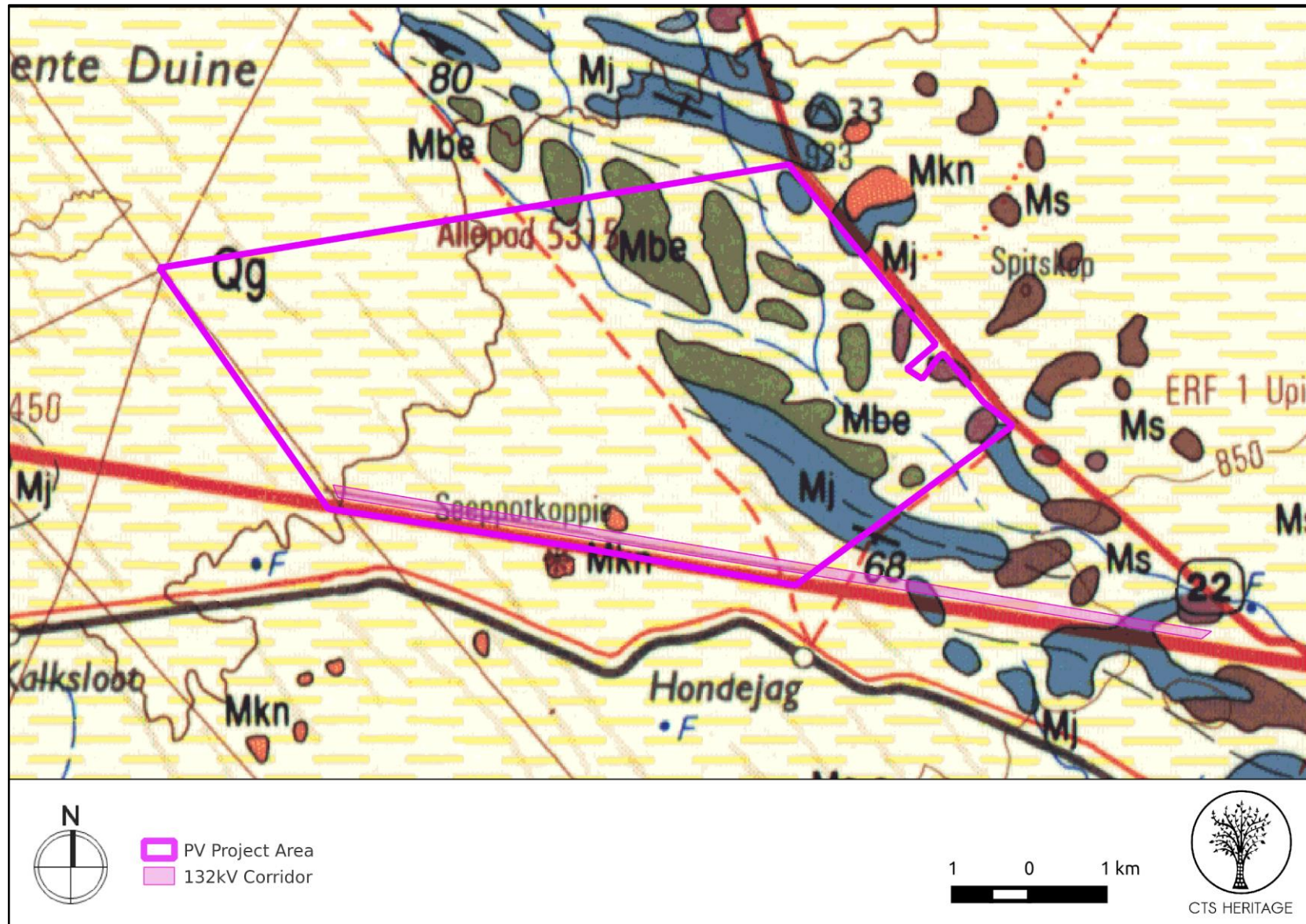


Figure 5.2 Extract from the 1:50 000 Geological Map of South Africa: Council of GeoScience Map 2820 Zoomed in. [Qg: Gordonia Formation (Quaternary coversands) Mbe: Bethesda Formation Mj: Jannelsepan Formation Mkn: Keimoes Formation Ms: Straussburg Granite]

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8. Heritage statement and character of the area

Allepad PV Four, a commercial solar PV energy generation facility and associated infrastructure, is proposed on a site near Upington, in the Northern Cape Province. The project is proposed on a portion of the Remaining Extent of Erf 5315, located approximately 11km north-west of Upington. The area under investigation is approximately 3 889ha in extent and comprises a single agricultural property. The project site can be accessed directly via the N10 national road which borders the southern boundary of the site. The purpose of this Scoping Report is to determine the main issues and potential impacts of the proposed project during the Scoping phase at a desktop level based on existing information.

Cultural Landscape

According to Van Schalkwyk (2014 SAHRIS NID 170520), “The cultural landscape qualities of the region essentially consist of two components. The first is a rural area in which the human occupation is made up of a pre-colonial (stone age) component and a later colonial (farmer) component. This rural landscape has always been sparsely populated. The second component is an urban one, consisting of a number of smaller towns, most of which developed during the last 150 years or less.” According to Von Vollenhoven (2012 SAHRIS NID 117902), “the environment of the area is mostly undisturbed although it is being used for sheep farming... The natural topography... is reasonably flat, but in the north-west a hill dominates the area resulting in an even slope up to the crest. This area also is very rocky. The stones here are dark in colour and may be of a basaltic origin. However in the flat areas adjacent to the hill the rocks are white coloured and most likely are soft calcrete, which would not have been suitable for the manufacture of stone tools. Different non-perennial streams run through the area...” According to Fourie’s assessment of the impacts of similar infrastructure in this area (2014), due to the landscape’s topography the solar park infrastructure will be prominent in the landscape and alter the rural appearance. Due to the remoteness of the area the impact on the experience of the cultural landscape is not foreseen to be significant.

Archaeology and the Built Environment

Many farm portions in the immediate vicinity of the area proposed for development have been assessed in terms of impacts to heritage resources (Figure 2). It has been found that the area surrounding Upington has a rich historical and archaeological past (Fourie, 2014 SAHRIS NID 174335). Based on the outcomes of these assessments, it is noted that most of the heritage resources identified are stone age artefact scatters of varying significance. In Fourie’s assessment (2014), the field work identified numerous areas where low density scatters of Middle and Later Stone Age lithics were found. As no context and *in situ* preservation were identified these sites were graded as having low heritage significance. In addition, one possible herder site was identified during the survey. No other material or deposits were identified but does not exclude the possibility of subsurface material. The ruins of old mining infrastructure were also identified. In Von Vollenhoven’s assessment (2012 SAHRIS NID 117902), he identified a number of very interesting and significant rock art engravings depicting various animals including giraffes and an aardvark. In addition, he identified a significant historical site known as the “Rebellion Tree” as well as graves associated with farmers in this area.

Five sites of moderate local significance are located just beyond the border of the proposed development area (Figure 3f). These sites are highlighted in orange in Appendix 1. Site 24972 is linked to Von Vollenhoven’s (2012) report and may well be the location of the rock art engravings described above. Site 45523 is described as consisting of ostrich egg shell fragments and stone flakes scattered around the base of a hill in low densities. Flakes are micro lithic supporting an ascription to the LSA utilising quartzite as raw material. A lead sealed bully beef can was also found here dated to the late 1800’s or early 1900’s. Sites 19977 to 19979 describe Middle Stone Age artefact scatter sites. In addition, there is a historical structure located within the development area of unknown heritage significance.

Based on the available information, it is likely that the proposed development will impact on significant archaeological resources such as Stone Age artefact scatters, burial grounds and graves, historical artefacts, historical structures and rock art engravings through destruction during the development phase and disturbance during the operational phase. (see impact tables below).

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Palaeontology

According to the SAHRIS Palaeosensitivity Map (Figure 4), the extract from the CGS Sheet 2820 Figure 5.1 and 5.2), this area is underlain by the Gordonia Formation (Quaternary coversands of moderate palaeontological sensitivity), the Bethesda Formation, the Jannelsepan Formation, the Keimoes Formation and the Strausburg Granite, all of which have zero palaeontological sensitivity. The primary risk associated with impacts to palaeontological heritage is related to impacting fossils preserved within the Quaternary coversands of the Gordonia Formation (wind-blown alluvial sands). According to Almond's assessment for similar infrastructure development in this area (2011 SAHRIS NID 174335), "overall impact significance of the proposed solar park development is likely to be LOW because: Most of the study area is underlain by unfossiliferous igneous and metamorphic basement rocks (granites, gneisses etc.) or mantled by superficial sediments (wind-blown sands, alluvium etc.) of low palaeontological sensitivity; Extensive, deep excavations are unlikely to be involved in this sort of solar park project. Significant negative impacts on local fossil heritage are therefore unlikely to result from the proposed solar park development and in the author's opinion no further specialist palaeontological studies for this project are necessary."

As such, and for the same reasons, it is anticipated that the proposed development will not impact on significant palaeontological heritage and therefore no further assessment of impacts to palaeontological heritage is recommended.

Cumulative Impacts

Of the 29 Heritage Assessments conducted within 20km of the proposed development area (Appendix 2), 8 are for Solar Energy/PV Facilities and 3 are for electrical infrastructure. The remaining assessments relate to mining infrastructure and residential township developments. At this stage, there is the potential for the cumulative impact of proposed solar energy facilities to negatively impact the cultural landscape due to a change in the landscape character from natural wilderness to semi-industrial, however, due to the remoteness of the area the impact on the experience of the cultural landscape is not foreseen to be significant.

RECOMMENDATION:

The heritage resources in the area proposed for development are not sufficiently recorded.

Based on the available information, including the scale and nature of the proposed development, it is likely that significant heritage resources will be impacted by the proposed development and as such it is recommended that an archaeological field assessment be conducted to inform a full Heritage Impact Assessment.



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9. Scoping Assessment Impact Table

Impact

- Impact to archaeological and built environment resources
- Impact to palaeontological resources
- Impact to Cultural Landscape
- Cumulative Impact

Desktop Sensitivity Analysis of the Site

- Impact to significant archaeological resources such as Stone Age artefact scatters, burial grounds and graves, historical artefacts, historical structures and rock art engravings through destruction during the development phase and disturbance during the operational phase.
- Impacts to palaeontological resources are unlikely.
- There is the potential for the cumulative impact of proposed solar energy facilities to negatively impact the cultural landscape due to a change in the landscape character from natural wilderness to semi-industrial, however, due to the remoteness of the area the impact on the experience of the cultural landscape is not foreseen to be significant.

| Issue | Nature of Impact | Extent of Impact | No-Go Areas |
|---|--|--|--|
| Impact to significant archaeological resources such as Stone Age artefact scatters, burial grounds and graves, historical artefacts, historical structures and rock art engravings through destruction during the development phase and disturbance during the operational phase. | Destruction of significant archaeological and other heritage resources | Local scale with broader impacts to scientific knowledge | To be identified through the field assessment. |

Gaps in knowledge & recommendations for further study

The heritage resources in the area proposed for development are not sufficiently recorded.

Based on the available information, including the scale and nature of the proposed development, it is likely that significant heritage resources will be impacted by the proposed development and as such it is recommended that an **archaeological field assessment** be conducted to inform a full Heritage Impact Assessment. This field assessment will identify all heritage resources of significance within the development footprint, map them and grade them in terms of their significance. This will inform the Heritage Impact Assessment which will clarify the impacts anticipated and provide mitigation measures, recommendations and possible no-go zones, as well as an assessment of the proposed alternatives.

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APPENDIX 1

List of heritage resources within the 20km Inclusion Zone

| Site ID | Site no | Full Site Name | Site Type | Grading |
|---------|---------|-----------------------|-----------|------------|
| 89491 | DYA004 | DYASON'S KLIP 454/004 | Artefacts | Grade IIIc |
| 89492 | DYA005 | DYASON'S KLIP 454/005 | Artefacts | Grade IIIc |
| 89494 | DYA007 | DYASON'S KLIP 454/007 | Artefacts | Grade IIIa |
| 89495 | DYA008 | DYASON'S KLIP 454/008 | Artefacts | Grade IIIc |
| 89499 | DYA010 | DYASON'S KLIP 454/010 | Artefacts | Grade IIIc |
| 89502 | DYA011 | DYASON'S KLIP 454/011 | Artefacts | Grade IIIc |
| 89503 | DYA012 | DYASON'S KLIP 454/012 | Artefacts | Grade IIIc |
| 89504 | DYA013 | DYASON'S KLIP 454/013 | Artefacts | Grade IIIc |
| 89505 | DYA014 | DYASON'S KLIP 454/014 | Artefacts | Grade IIIc |
| 89506 | DYA015 | DYASON'S KLIP 454/015 | Artefacts | Grade IIIc |
| 89507 | DYA016 | DYASON'S KLIP 454/016 | Artefacts | Grade IIIc |
| 89509 | DYA018 | DYASON'S KLIP 454/018 | Artefacts | Grade IIIc |
| 89510 | DYA019 | DYASON'S KLIP 454/019 | Artefacts | Grade IIIa |
| 89511 | DYA020 | DYASON'S KLIP 454/020 | Artefacts | Grade IIIc |
| 89512 | DYA021 | DYASON'S KLIP 454/021 | Artefacts | Grade IIIc |
| 89514 | DYA023 | DYASON'S KLIP 454/023 | Artefacts | Grade IIIc |
| 89515 | DYA024 | DYASON'S KLIP 454/024 | Artefacts | Grade IIIc |
| 89516 | DYA025 | DYASON'S KLIP 454/025 | Artefacts | Grade IIIc |
| 89517 | DYA026 | DYASON'S KLIP 454/026 | Artefacts | Grade IIIc |
| 89518 | DYA027 | DYASON'S KLIP 454/027 | Artefacts | Grade IIIc |
| 89522 | DYA031 | DYASON'S KLIP 454/031 | Artefacts | Grade IIIc |
| 89488 | DYA001 | DYASON'S KLIP 454/001 | Artefacts | Grade IIIc |
| 89489 | DYA002 | DYASON'S KLIP 454/002 | Artefacts | Grade IIIc |

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|--------|--------|-----------------------|------------|------------|
| 89490 | DYA003 | DYASON'S KLIP 454/003 | Artefacts | Grade IIIc |
| 89493 | DYA006 | DYASON'S KLIP 454/006 | Artefacts | Grade IIIa |
| 89497 | DYA009 | DYASON'S KLIP 454/009 | Artefacts | Grade IIIc |
| 89513 | DYA022 | DYASON'S KLIP 454/022 | Artefacts | Grade IIIc |
| 89523 | DYA032 | DYASON'S KLIP 454/032 | Artefacts | Grade IIIc |
| 128444 | ACP001 | Areachap 001 | Structures | Grade IIIc |
| 128445 | ACP002 | Areachap 002 | Artefacts | Grade IIIc |
| 128446 | ACP003 | Areachap 003 | Artefacts | Grade IIIc |
| 128447 | ACP004 | Areachap 004 | Artefacts | Grade IIIc |
| 128448 | ACP005 | Areachap 005 | Artefacts | Grade IIIc |
| 128449 | ACP006 | Areachap 006 | Artefacts | Grade IIIc |
| 128450 | ACP007 | Areachap 007 | Artefacts | Grade IIIc |
| 128452 | ACP008 | Areachap 008 | Artefacts | Grade IIIc |
| 128453 | ACP009 | Areachap 009 | Artefacts | Grade IIIc |
| 128455 | ACP010 | Areachap 010 | Artefacts | Grade IIIc |
| 128456 | ACP011 | Areachap 011 | Artefacts | Grade IIIc |
| 128458 | ACP012 | Areachap 012 | Artefacts | Grade IIIc |
| 128459 | ACP013 | Areachap 013 | Artefacts | Grade IIIc |
| 128460 | ACP014 | Areachap 014 | Artefacts | Grade IIIc |
| 128461 | ACP015 | Areachap 015 | Artefacts | Grade IIIc |
| 128463 | ACP016 | Areachap 016 | Artefacts | Grade IIIc |
| 128464 | ACP017 | Areachap 017 | Artefacts | Grade IIIc |
| 128465 | ACP018 | Areachap 018 | Artefacts | Grade IIIc |
| 128467 | ACP019 | Areachap 019 | Artefacts | Grade IIIc |
| 128468 | ACP020 | Areachap 020 | Artefacts | Grade IIIc |
| 128470 | ACP021 | Areachap 021 | Artefacts | Grade IIIc |

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|--------|--------------|---|-----------|------------|
| 128471 | ACP022 | Areachap 022 | Artefacts | Grade IIIc |
| 128472 | ACP023 | Areachap 023 | Artefacts | Grade IIIc |
| 128473 | ACP024 | Areachap 024 | Artefacts | Grade IIIc |
| 128474 | ACP025 | Areachap 025 | Artefacts | Grade IIIc |
| 128475 | ACP026 | Areachap 026 | Artefacts | Grade IIIc |
| 128476 | ACP027 | Areachap 027 | Artefacts | Grade IIIc |
| 128477 | ACP028 | Areachap 028 | Artefacts | Grade IIIc |
| 128479 | ACP029 | Areachap 029 | Artefacts | Grade IIIc |
| 128480 | ACP030 | Areachap 030 | Artefacts | Grade IIIc |
| 86704 | SASOL019 | SASOL CSP 019 | Artefacts | Grade IIIb |
| 86705 | SASOL020 | SASOL CSP 020 | Artefacts | Grade IIIb |
| 86706 | SASOL021 | SASOL CSP 021 | Artefacts | Grade IIIb |
| 86707 | SASOL022 | SASOL CSP 022 | Artefacts | Grade IIIb |
| 86709 | SASOL024 | SASOL CSP 024 | Artefacts | Grade IIIb |
| 86710 | SASOL025 | SASOL CSP 025 | Artefacts | Grade IIIb |
| 86711 | SASOL026 | SASOL CSP 026 | Artefacts | Grade IIIb |
| 86712 | SASOL027 | SASOL CSP 027 | Artefacts | Grade IIIb |
| 28784 | 9/2/032/0015 | Palm Tree Avenue, The Island, Upington | Building | Grade II |
| 28785 | 9/2/032/0016 | Old Watermill, Upington | Building | Grade II |
| 28782 | 9/2/032/0017 | Cathedral of St Augustine, Le Roux Street, Upington | Building | Grade II |
| 28783 | 9/2/032/0018 | Museum Complex, 4 Schroder Street, Upington | Building | Grade II |
| 28779 | 9/2/032/0019 | Dutch Reformed Church, Schroder Street, Upington | Building | Grade II |
| 86713 | SASOL028 | SASOL CSP 028 | Artefacts | Grade IIIb |
| 86714 | SASOL029 | SASOL CSP 029 | Artefacts | Grade IIIb |
| 86715 | SASOL030 | SASOL CSP 030 | Artefacts | Grade IIIb |
| 86716 | SASOL031 | SASOL CSP 031 | Artefacts | Grade IIIb |

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|-------|----------|--------------------|-----------|------------|
| 86718 | SASOL032 | SASOL CSP 032 | Artefacts | Grade IIIb |
| 86720 | SASOL033 | SASOL CSP 033 | Artefacts | Grade IIIb |
| 45727 | ROOI001 | Roopunt 001 | Artefacts | Grade IV |
| 45728 | ROOI002 | Roopunt 002 | Artefacts | Grade IV |
| 45729 | ROOI003 | Roopunt 003 | Artefacts | Grade IV |
| 45731 | ROOI004 | Roopunt 004 | Artefacts | Grade IV |
| 45733 | ROOI005 | Roopunt 005 | Artefacts | Grade IV |
| 45735 | ROOI006 | Roopunt 006 | Artefacts | Grade IV |
| 45736 | ROOI007 | Roopunt 007 | Artefacts | Grade IV |
| 45737 | ROOI008 | Roopunt 008 | Artefacts | Grade IV |
| 45738 | ROOI009 | Roopunt 009 | Artefacts | Grade IV |
| 45739 | ROOI010 | Roopunt 010 | Artefacts | Grade IV |
| 45740 | ROOI011 | Roopunt 011 | Artefacts | Grade IV |
| 45741 | ROOI012 | Roopunt 012 | Artefacts | Grade IV |
| 45742 | ROOI013 | Roopunt 013 | Artefacts | Grade IV |
| 45743 | ROOI014 | Roopunt 014 | Artefacts | Grade IV |
| 45744 | ROOI015 | Roopunt 015 | Artefacts | Grade IV |
| 86723 | SASOL034 | SASOL CSP 034 | Artefacts | Grade IIIb |
| 45758 | ROOI016 | Roopunt 016 | Artefacts | Grade IV |
| 45759 | ROOI017 | Roopunt 017 | Artefacts | Grade IV |
| 45760 | ROOI018 | Roopunt 018 | Artefacts | Grade IV |
| 45761 | ROOI019 | Roopunt 019 | Artefacts | Grade IV |
| 45762 | ROOI020 | Roopunt 020 | Artefacts | Grade IV |
| 45523 | VRV01 | Van Rooy's Vlei 01 | Artefacts | Grade IIIb |
| 45763 | ROOI021 | Roopunt 021 | Artefacts | Grade IV |
| 45764 | ROOI022 | Roopunt 022 | Artefacts | Grade IV |

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|-------|----------|----------------------|----------------------------|------------|
| 45765 | ROOI023 | Rooipunt 023 | Stone walling | Grade IV |
| 45766 | ROOI024 | Rooipunt 024 | Structures | Grade IV |
| 45767 | ROOI025 | Rooipunt 025 | Conservation Area | Grade IV |
| 45768 | ROOI026 | Rooipunt 026 | Conservation Area | Grade IV |
| 45779 | ROOI027 | Rooipunt 027 | Conservation Area | Grade IV |
| 45780 | ROOI028 | Rooipunt 028 | Structures | Grade IV |
| 45781 | ROOI029 | Rooipunt 029 | Conservation Area | Grade IV |
| 45782 | ROOI030 | Rooipunt 030 | Structures | Grade IV |
| 45783 | ROOI031 | Rooipunt 031 | Structures | Grade IV |
| 45784 | ROOI032 | Rooipunt 032 | Structures | Grade IV |
| 45785 | ROOI033 | Rooipunt 033 | Structures | Grade IV |
| 45786 | ROOI034 | Rooipunt 034 | Structures | Grade IV |
| 45787 | ROOI035 | Rooipunt 035 | Structures | Grade IV |
| 45788 | ROOI036 | Rooipunt 036 | Structures | Grade IV |
| 45789 | ROOI037 | Rooipunt 037 | Structures | Grade IV |
| 19979 | SPITZ3 | Spitzkop 3 | Artefacts | Grade IIIb |
| 46287 | OLYV01 | OLYVENHOUTS DRIFT 01 | Artefacts | Grade IIIc |
| 45968 | SASOL001 | SASOL CSP 001 | Structures | Grade IIIc |
| 86677 | SASOL002 | SASOL CSP 002 | Artefacts | Grade IIIb |
| 86678 | SASOL003 | SASOL CSP 003 | Artefacts | Grade IIIb |
| 44977 | UP08 | Uppington 08 | Artefacts | Grade IIIc |
| 86679 | SASOL004 | SASOL CSP 004 | Artefacts | Grade IIIb |
| 86680 | SASOL005 | SASOL CSP 005 | Artefacts | Grade IIIb |
| 44980 | UP09 | Uppington 09 | Burial Grounds & Graves | Grade IIIa |
| 86681 | SASOL006 | SASOL CSP 006 | Artefacts | Grade IIIb |

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| 86682 | SASOL007 | SASOL CSP 007 | Artefacts | Grade IIIb |
| 86683 | SASOL008 | SASOL CSP 008 | Artefacts | Grade IIIb |
| 86684 | SASOL009 | SASOL CSP 009 | Artefacts | Grade IIIb |
| 60026 | LOUI01 | Louisevale 01 | Artefacts | Grade IIIc |
| 60028 | LOUI02 | Louisevale 02 | Artefacts | Grade IIIc |
| 60030 | LOUI03 | Louisevale 03 | Artefacts | Grade IIIc |
| 60032 | LOUI04 | Louisevale 04 | Artefacts | Grade IIIc |
| 60034 | LOUI05 | Louisevale 05 | Artefacts | Grade IIIc |
| 60036 | LOUI06 | Louisevale 06 | Artefacts | Grade IIIc |
| 60038 | LOUI07 | Louisevale 07 | Artefacts | Grade IIIc |
| 39813 | SOA001 | Solar-Aries 001 | Artefacts | Grade IIIc |
| 60040 | LOUI08 | Louisevale 08 | Artefacts | Grade IIIc |
| 39814 | SOA002 | Solar-Aries 002 | Living Heritage/Sacred sites | Grade IIIc |
| 60044 | LOUI10 | Louisevale 10 | Artefacts | Grade IIIc |
| 60042 | LOUI09 | Louisevale 09 | Artefacts | Grade IIIc |
| 44796 | DAKOTA01 | Dakota Drive, Upington 01 | Artefacts, Burial Grounds & Graves | Grade IIIa |
| 60070 | LOUI11 | Louisevale 11 | Artefacts | Grade IIIc |
| 60072 | LOUI12 | Louisevale 12 | Artefacts | Grade IIIc |
| 60074 | LOUI13 | Louisevale 13 | Artefacts | Grade IIIc |
| 44797 | DAKOTA02 | Dakota Drive, Upington 02 | Burial Grounds & Graves | Grade IIIa |
| 60075 | LOUI14 | Louisevale 14 | Artefacts | Grade IIIc |
| 60077 | LOUI15 | Louisevale 15 | Artefacts | Grade IIIc |
| 60079 | LOUI16 | Louisevale 16 | Artefacts | Grade IIIc |
| 60081 | LOUI17 | Louisevale 17 | Artefacts | Grade IIIc |

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| 60083 | LOUI18 | Louisevale 18 | Artefacts | Grade IIIc |
| 60085 | LOUI19 | Louisevale 19 | Artefacts | Grade IIIc |
| 60086 | LOUI20 | Louisevale 20 | Artefacts | Grade IIIc |
| 60125 | LOUI22 | Louisevale 22 | Artefacts | Grade IIIc |
| 60127 | LOUI23 | Louisevale 23 | Artefacts | Grade IIIc |
| 86688 | SASOL013 | SASOL CSP 013 | Artefacts | Grade IIIb |
| 60129 | LOUI24 | Louisevale 24 | Artefacts | Grade IIIc |
| 60137 | LOUI27 | Louisevale 27 | Artefacts | Grade IIIc |
| 60143 | LOUI31 | Louisevale 31 | Artefacts | Grade IIIc |
| 89525 | DYA033 | DYASON'S KLIP 454/033 | Artefacts | Grade IIIc |
| 60140 | LOUI29 | Louisevale 29 | Artefacts | Grade IIIc |
| 60133 | LOUI25 | Louisevale 25 | Artefacts | Grade IIIc |
| 86689 | SASOL014 | SASOL CSP 014 | Artefacts | Grade IIIb |
| 86690 | SASOL015 | SASOL CSP 015 | Artefacts | Grade IIIb |
| 60124 | LOUI21 | Louisevale 21 | Artefacts | Grade IIIc |
| 60135 | LOUI26 | Louisevale 26 | Artefacts | Grade IIIc |
| 86691 | SASOL016 | SASOL CSP 016 | Artefacts | Grade IIIb |
| 19978 | SPITZ2 | Spitzkop 2 | Artefacts | Grade IIIb |
| 60138 | LOUI28 | Louisevale 28 | Artefacts | Grade IIIc |
| 19977 | SPITZ1 | Spitzkop 1 | Artefacts | Grade IIIb |
| 60145 | LOUI30 | Louisevale 30 | Artefacts | Grade IIIc |
| 86686 | SASOL011 | SASOL CSP 011 | Artefacts | Grade IIIb |
| 86687 | SASOL012 | SASOL CSP 012 | Artefacts | Grade IIIb |
| 7820 | 2830BD 317 | | Ruin > 100 years | Grade IIIb |
| 86702 | SASOL017 | SASOL CSP 017 | Artefacts | Grade IIIb |
| 86703 | SASOL018 | SASOL CSP 018 | Artefacts | Grade IIIb |

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| 24972 | Van Roois Vley | Van Roois Vlei Stone Age sites | Artefacts | Grade IIIb |
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APPENDIX 2 Reference List

| Heritage Impact Assessments | | | | |
|-----------------------------|-------------|--------------------|------------|---|
| Nid | Report Type | Author/s | Date | Title |
| 4101 | AIA Phase 1 | Peter Beaumont | 22/10/2005 | Archaeological Impact Assessment at and in the Vicinity of a Quartzite Quarry on Portion 4 of the Farm Droogehout 442 near Upington |
| 4103 | AIA Phase 1 | Cobus Dreyer | 10/03/2006 | First Phase Archaeological and Cultural Heritage Assessment of the Proposed Concentrated Solar Thermal Plant (Csp) at the Farms Olyvenhouts Drift, Upington, Bokpoort 390 and Tampansrus 294/295, Groblershoop, Northern Cape |
| 4123 | AIA Phase 1 | Peter Beaumont | 01/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Residential Development Flanking Dakota Drive in Upington, //Khara Hais Municipality, Northern Cape Province |
| 4124 | AIA Phase 1 | Peter Beaumont | 24/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Extension of the Rosedale Settlement in Upington, //Khara Hais Municipality, Northern Cape Province |
| 4130 | AIA Phase 1 | Peter Beaumont | 16/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Extension of the Louisvaleur Township, //Khara Hais Municipality, Northern Cape Province |
| 4131 | AIA Phase 1 | Peter Beaumont | 18/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Township Extension Flanking Keimoesweg, //Khara Hais Municipality, Northern Cape Province |
| 4132 | AIA Phase 1 | Peter Beaumont | 18/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Extension Flanking Rondonstraat, //Khara Hais Municipality, Northern Cape Province |
| 4133 | AIA Phase 1 | Peter Beaumont | 19/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Township Extension Flanking Lemoendraai in Upington, //Khara Hais Municipality, Northern Cape Province |
| 4134 | AIA Phase 1 | Peter Beaumont | 19/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Industrial Area Expansion at Laboria, //Khara Hais Municipality, Northern Cape Province |
| 4136 | AIA Phase 1 | Peter Beaumont | 22/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Extension of Kalksloot Settlement, Siyanda District Municipality, Northern Cape |
| 7841 | AIA Phase 1 | Peter Beaumont | 17/08/2006 | Phase 1 Heritage Impact Assessment Report on a Planned Extension of the Rosedale Township, //Khara Hais Municipality, Northern Cape Province |
| 8366 | AIA Phase 1 | Karen Van Ryneveld | 27/10/2005 | Cultural Resources Management Impact Assessment: (Portion of) Areachap 426, Upington District, Northern Cape, South Africa |
| 111142 | HIA Phase 1 | Johnny Van | 01/03/2012 | Heritage Impact Assessment for the Proposed Development of an Agri-estate on the Farm Melkstroom East of |

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| | | Schalkwyk | | Upington, Gordonia Magisterial District, Northern Cape Province |
| 117902 | HIA Phase 1 | Anton van Vollenhoven | 25/05/2012 | A REPORT ON A HERITAGE IMPACT ASSESSMENT FOR THE PROPOSED SASOL CSP PROJECT NEAR UPINGTON IN THE NORTHERN CAPE PROVINCE |
| 119309 | HIA Phase 1 | Stephan Gaigher | 10/10/2012 | HERITAGE IMPACT ASSESSMENT REPORT Proposed Establishment of Several Electricity Distribution Lines within the Northern Cape Province |
| 124405 | Heritage Impact Assessment Specialist Reports | Stephan Gaigher | 29/10/2013 | Heritage Impact Assessment Report for the Proposed Sirius Solar Project near Upington in the Northern Cape Province |
| 124406 | Palaeontological Specialist Reports | JF Durand | 02/04/2013 | Palaeontology Scoping Report |
| 128281 | Heritage Scoping | David Morris | 30/07/2013 | RE Capital 3 Solar Development on the property Dyasons Klip west of Upington, Northern Cape: Scoping phase Heritage Input |
| 131589 | Heritage Impact Assessment Specialist Reports | Stephan Gaigher | 22/02/2013 | Proposed Establishment of Several Electricity Distribution Lines within the Northern Cape Province |
| 158920 | AIA Phase 1 | David Morris | 01/02/2013 | RE Capital 3 Solar Development on the property Dyasons Klip west of Upington, Northern Cape: Archaeological Impact Assessment – proposed ‘central’ development footprint |
| 159068 | PIA Phase 1 | John E Almond | 07/03/2014 | PALAEONTOLOGICAL HERITAGE BASIC ASSESSMENT: DESKTOP STUDY Proposed RE Capital 3 Solar Development on the property Dyason’s Klip near Upington , Northern Cape |
| 159203 | Heritage Impact Assessment Specialist Reports | Johnny Van Schalkwyk | 11/03/2014 | Cultural Heritage Impact Assessment Proposed Township development of Erf 1, UPINGTON, //KHARA HAIS MUNICIPALITY |
| 159293 | HIA Phase 1 | Johnny Van Schalkwyk | 12/03/2014 | Cultural Heritage Impact Assessment for proposed township development, Louisvaleweg, UPINGTON |

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|--------|------------------|----------------------|------------|---|
| 160008 | HIA Phase 1 | Johnny Van Schalkwyk | 15/03/2014 | Cultural Heritage Impact Assessment for the proposed township development, Paballelo, Upington, //Khara Hais Municipality |
| 161427 | HIA Phase 1 | Stephan Gaigher | 15/04/2014 | Proposed Establishment of Several Electricity Distribution Lines within the Northern Cape Province |
| 166079 | HIA Phase 1 | Johnny Van Schalkwyk | 12/03/2014 | Proposed extension of Dakota Road, Upington |
| 170520 | Heritage Scoping | Johnny Van Schalkwyk | 01/01/2014 | Heritage Impact Assessment Report for the proposed 1GW Upington Solar Park within the // Khara Hais Municipality, Northern Cape Province |
| 174335 | HIA Phase 1 | Wouter Fourie | 24/03/2014 | Heritage Impact Assessment for the proposed Solar Power Park for SolarReserve SA (Pty) Ltd, Farm Rooipunt 617, Gordonia RD, Siyanda District Municipal Region, Northern Cape. |
| 289187 | Heritage Scoping | Jaco van der Walt | 01/06/2015 | Heritage Scoping Report for the proposed Bloemsmond Solar 1 and Solar 2 PV Project, Keimoes, NC Province |

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APPENDIX 3 - Keys/Guides

Key/Guide to Acronyms

| | |
|---------------|--|
| AIA | Archaeological Impact Assessment |
| DARD | Department of Agriculture and Rural Development (KwaZulu-Natal) |
| DEA | Department of Environmental Affairs (National) |
| DEADP | Department of Environmental Affairs and Development Planning (Western Cape) |
| DEDEAT | Department of Economic Development, Environmental Affairs and Tourism (Eastern Cape) |
| DEDECT | Department of Economic Development, Environment, Conservation and Tourism (North West) |
| DEDT | Department of Economic Development and Tourism (Mpumalanga) |
| DEDTEA | Department of economic Development, Tourism and Environmental Affairs (Free State) |
| DENC | Department of Environment and Nature Conservation (Northern Cape) |
| DMR | Department of Mineral Resources (National) |
| GDARD | Gauteng Department of Agriculture and Rural Development (Gauteng) |
| HIA | Heritage Impact Assessment |
| LEDET | Department of Economic Development, Environment and Tourism (Limpopo) |
| MPRDA | Mineral and Petroleum Resources Development Act, no 28 of 2002 |
| NEMA | National Environmental Management Act, no 107 of 1998 |
| NHRA | National Heritage Resources Act, no 25 of 1999 |
| PIA | Palaeontological Impact Assessment |
| SAHRA | South African Heritage Resources Agency |
| SAHRIS | South African Heritage Resources Information System |
| VIA | Visual Impact Assessment |

Full guide to Palaeosensitivity Map legend

| | | |
|--|-----------------------|--|
| | RED: | VERY HIGH - field assessment and protocol for finds is required |
| | ORANGE/YELLOW: | HIGH - desktop study is required and based on the outcome of the desktop study, a field assessment is likely |
| | GREEN: | MODERATE - desktop study is required |
| | BLUE/PURPLE: | LOW - no palaeontological studies are required however a protocol for chance finds is required |
| | GREY: | INSIGNIFICANT/ZERO - no palaeontological studies are required |
| | WHITE/CLEAR: | UNKNOWN - these areas will require a minimum of a desktop study. |

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APPENDIX 4 - Methodology

The Heritage Screener summarises the heritage impact assessments and studies previously undertaken within the area of the proposed development and its surroundings. Heritage resources identified in these reports are assessed by our team during the screening process.

The heritage resources will be described both in terms of **type**:

- Group 1: Archaeological, Underwater, Palaeontological and Geological sites, Meteorites, and Battlefields
- Group 2: Structures, Monuments and Memorials
- Group 3: Burial Grounds and Graves, Living Heritage, Sacred and Natural sites
- Group 4: Cultural Landscapes, Conservation Areas and Scenic routes

and **significance** (Grade I, II, IIIa, b or c, ungraded), as determined by the author of the original heritage impact assessment report or by formal grading and/or protection by the heritage authorities.

Sites identified and mapped during research projects will also be considered.

DETERMINATION OF THE EXTENT OF THE INCLUSION ZONE TO BE TAKEN INTO CONSIDERATION

The extent of the inclusion zone to be considered for the Heritage Screener will be determined by CTS based on:

- the size of the development,
- the number and outcome of previous surveys existing in the area
- the potential cumulative impact of the application.

The inclusion zone will be considered as the region within a maximum distance of 50 km from the boundary of the proposed development.

DETERMINATION OF THE PALAEOLOGICAL SENSITIVITY

The possible impact of the proposed development on palaeontological resources is gauged by:

- reviewing the fossil sensitivity maps available on the South African Heritage Resources Information System (SAHRIS)
- considering the nature of the proposed development
- when available, taking information provided by the applicant related to the geological background of the area into account

DETERMINATION OF THE COVERAGE RATING ASCRIBED TO A REPORT POLYGON

Each report assessed for the compilation of the Heritage Screener is colour-coded according to the level of coverage accomplished. The extent of the surveyed coverage is labeled in three categories, namely low, medium and high. In most instances the extent of the map corresponds to the extent of the development for which the specific report was undertaken.

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Low coverage will be used for:

- desktop studies where no field assessment of the area was undertaken;
- reports where the sites are listed and described but no GPS coordinates were provided.
- older reports with GPS coordinates with low accuracy ratings;
- reports where the entire property was mapped, but only a small/limited area was surveyed.
- uploads on the National Inventory which are not properly mapped.

Medium coverage will be used for

- reports for which a field survey was undertaken but the area was not extensively covered. This may apply to instances where some impediments did not allow for full coverage such as thick vegetation, etc.
- reports for which the entire property was mapped, but only a specific area was surveyed thoroughly. This is differentiated from low ratings listed above when these surveys cover up to around 50% of the property.

High coverage will be used for

- reports where the area highlighted in the map was extensively surveyed as shown by the GPS track coordinates. This category will also apply to permit reports.

RECOMMENDATION GUIDE

The Heritage Screener includes a set of recommendations to the applicant based on whether an impact on heritage resources is anticipated. One of three possible recommendations is formulated:

(1) The heritage resources in the area proposed for development are sufficiently recorded - The surveys undertaken in the area adequately captured the heritage resources. There are no known sites which require mitigation or management plans. No further heritage work is recommended for the proposed development.

This recommendation is made when:

- enough work has been undertaken in the area
- it is the professional opinion of CTS that the area has already been assessed adequately from a heritage perspective for the type of development proposed

(2) The heritage resources and the area proposed for development are only partially recorded - The surveys undertaken in the area have not adequately captured the heritage resources and/or there are sites which require mitigation or management plans. Further specific heritage work is recommended for the proposed development.

This recommendation is made in instances in which there are already some studies undertaken in the area and/or in the adjacent area for the proposed development. Further studies in a limited HIA may include:

- improvement on some components of the heritage assessments already undertaken, for instance with a renewed field survey and/or with a specific specialist for the type of heritage resources expected in the area
- compilation of a report for a component of a heritage impact assessment not already undertaken in the area
- undertaking mitigation measures requested in previous assessments/records of decision.

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(3) The heritage resources within the area proposed for the development have not been adequately surveyed yet - Few or no surveys have been undertaken in the area proposed for development. A full Heritage Impact Assessment with a detailed field component is recommended for the proposed development.

Note:

The responsibility for generating a response detailing the requirements for the development lies with the heritage authority. However, since the methodology utilised for the compilation of the Heritage Screeners is thorough and consistent, contradictory outcomes to the recommendations made by CTS should rarely occur. Should a discrepancy arise, CTS will immediately take up the matter with the heritage authority to clarify the dispute.

The compilation of the Heritage Screener will not include any field assessment. The Heritage Screener will be submitted to the applicant within 24 hours from receipt of full payment. **If the 24-hour deadline is not met by CTS, the applicant will be refunded in full.**

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