

CTS HERITAGE

HERITAGE SCREENER

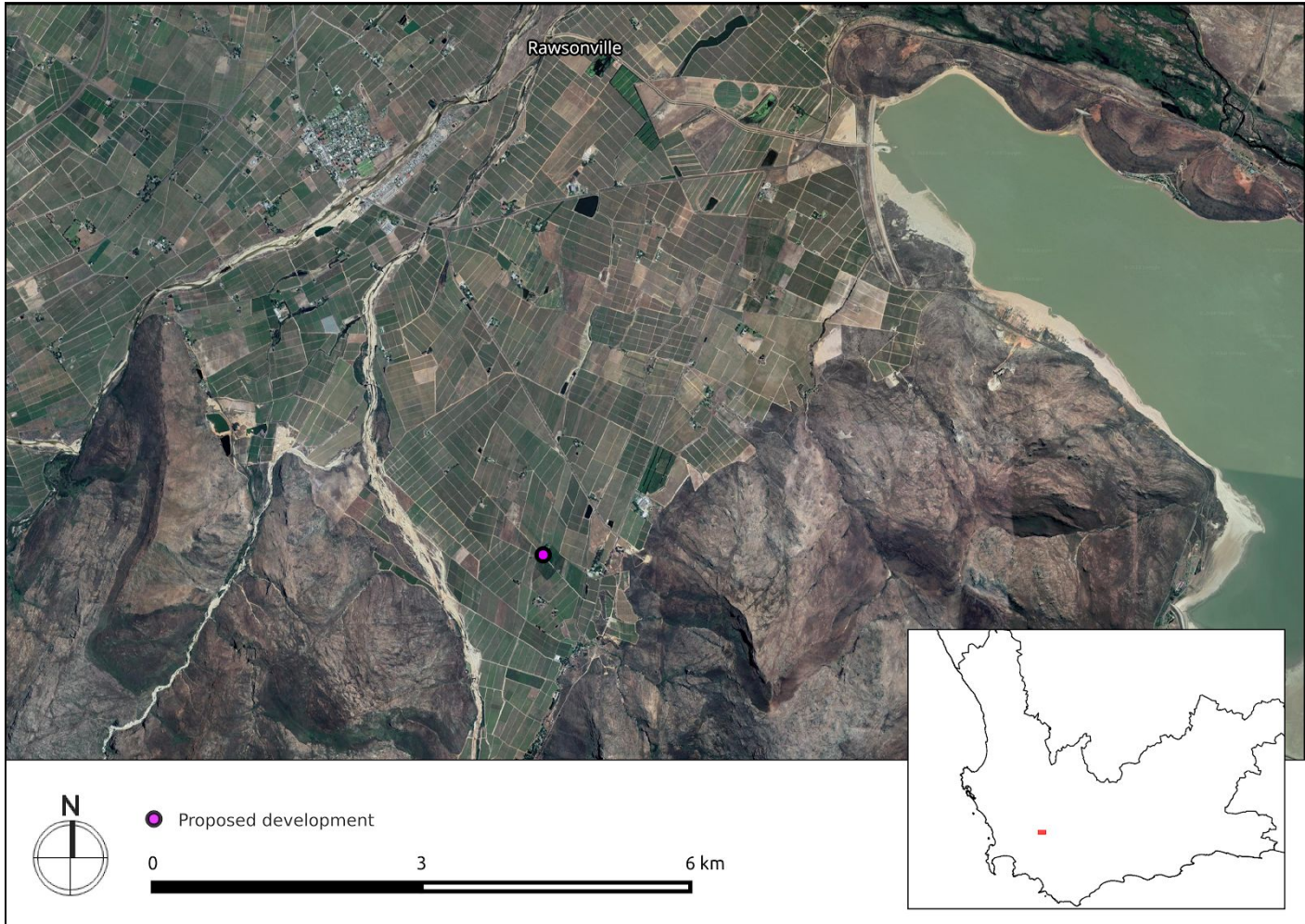
CTS Reference Number:	CTS18_098	
HWC Reference:		
Client:	EnviroAfrica	
Date:	06 June 2018	
Title:	Proposed Establishment of a 25m Mast at Avondrood	
Recommendation by CTS Heritage Specialists	<p>RECOMMENDATION: The heritage resources in the area proposed for development are sufficiently recorded Based on the available information, including the scale and nature of the proposed development, it is unlikely that any significant heritage resources will be impacted and as such it is recommended that no further heritage studies are required.</p>	

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



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1. Proposed Development Summary

Proposed Establishment of a 25m Mast at Avondrood

2. Application References

Name of relevant heritage authority(s)	HWC
Name of decision making authority(s)	DEADP

3. Property Information

Latitude / Longitude	-33.7265139228 / 19.3379860708
Erf number / Farm number	Farm 914
Local Municipality	Breedee Valley Municipality
District Municipality	Boland
Previous Magisterial District	Worcester
Province	Western Cape
Current Use	Agriculture
Current Zoning	Agriculture
Total Extent	161.31ha

4. Nature of the Proposed Development

Total Surface Area	125m2
Depth of excavation (m)	>2m
Height of development (m)	25m
Expected years of operation before decommission	NA

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5. Category of Development

Triggers: Section 38(8) of the National Heritage Resources Act	X
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-	
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

NA

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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.

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



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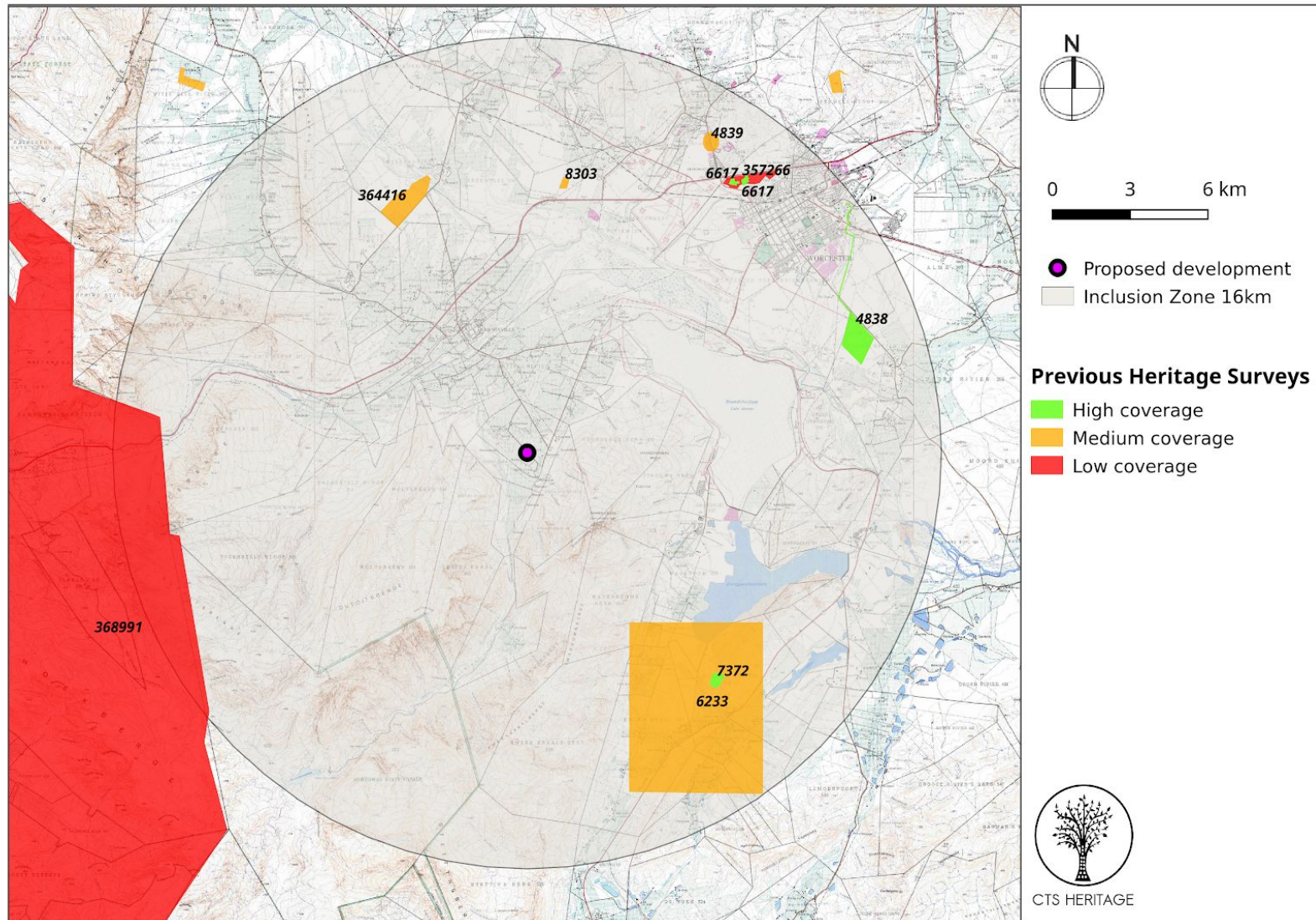
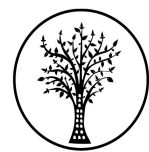


Figure 2a. Previous HIAs Map. Previous Heritage Impact Assessments surrounding the proposed development area within 16km, with SAHRIS NIDS indicated. Please see Appendix 2 for full reference list.

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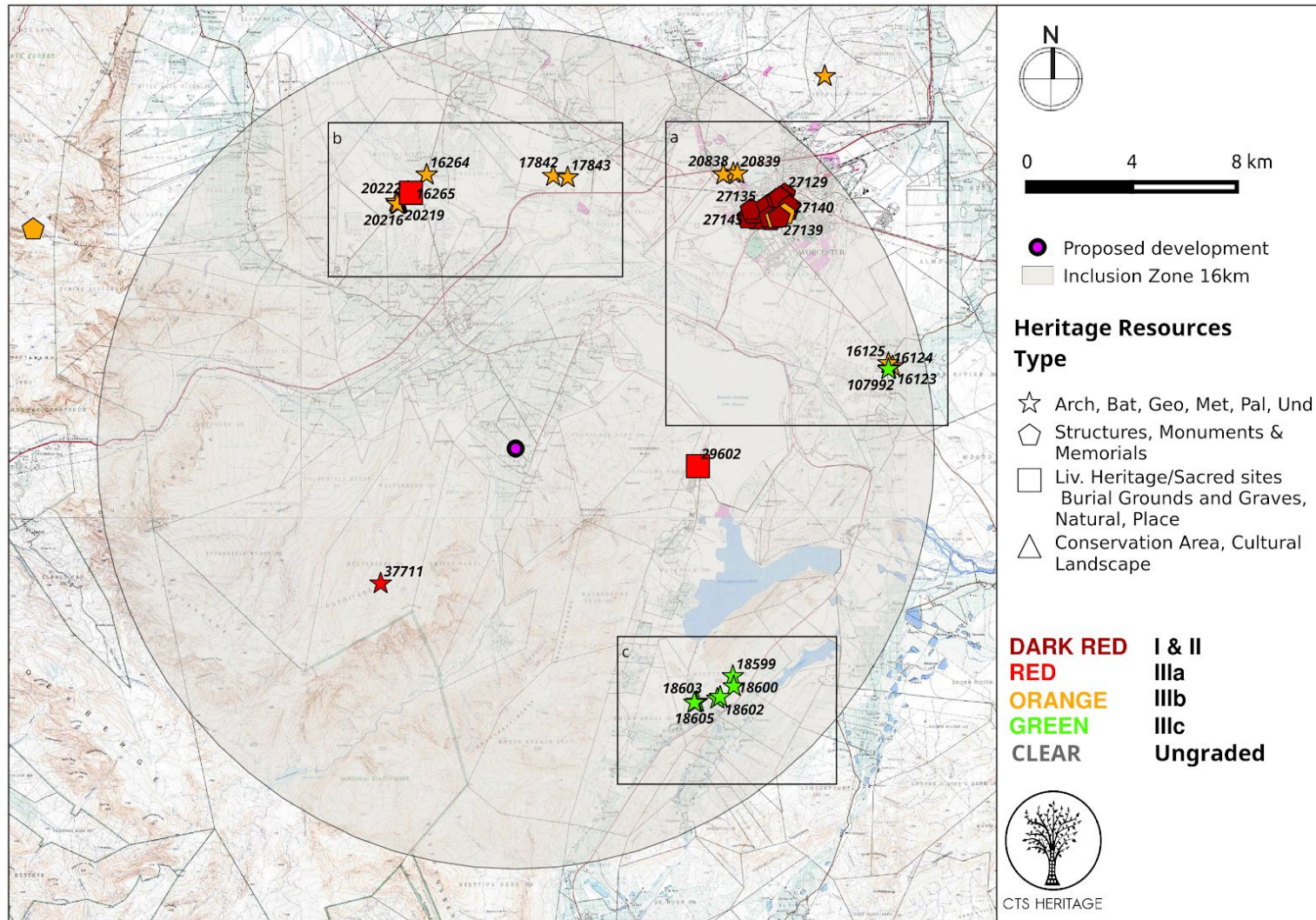


Figure 3a. Heritage Resources Map. Heritage Resources previously identified in and near the study area, with SAHRIS Site IDs indicated (see Figures 3b-3d for insets). Please See Appendix 4 for full description of heritage resource types.

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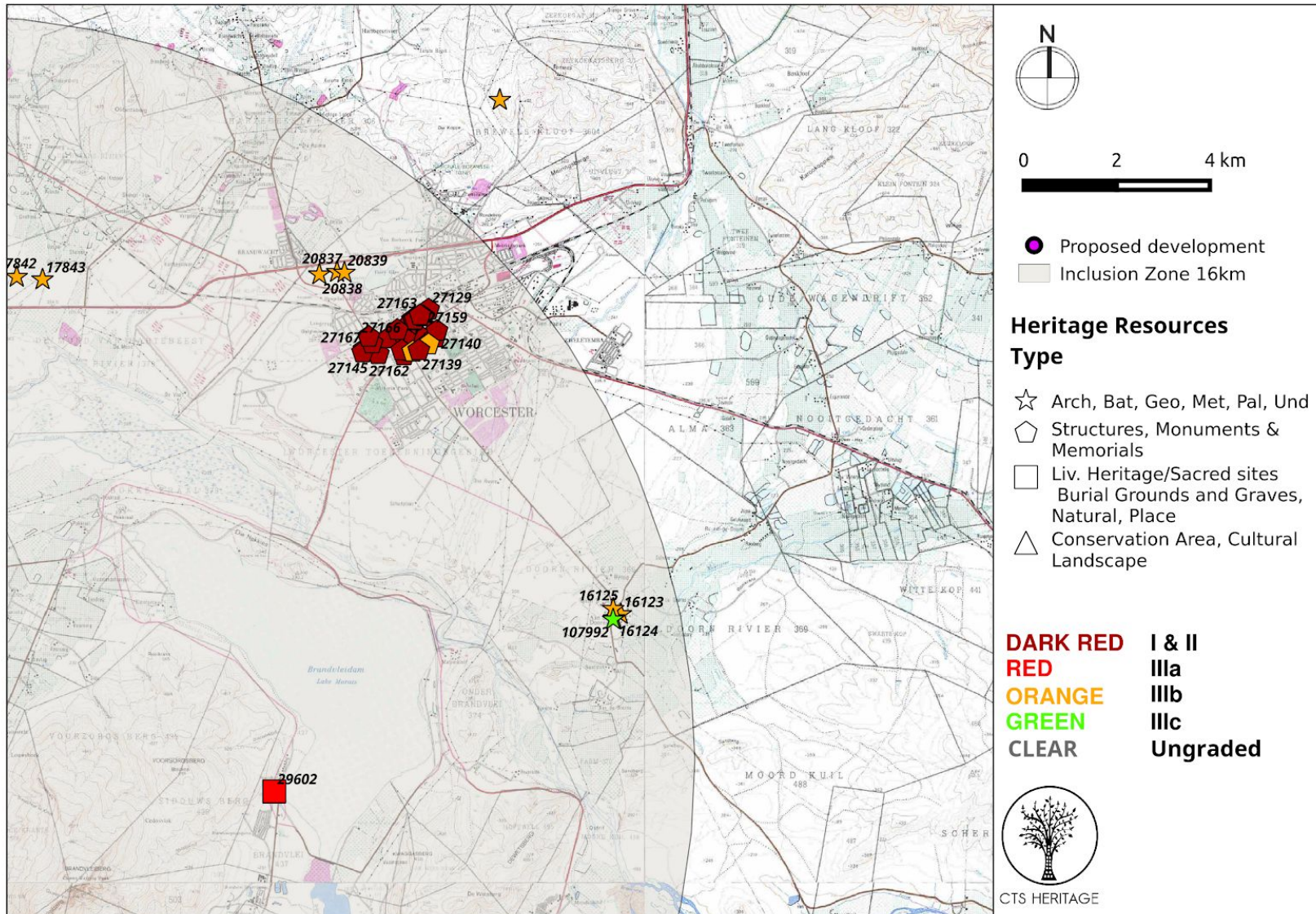


Figure 3b. Inset Map.

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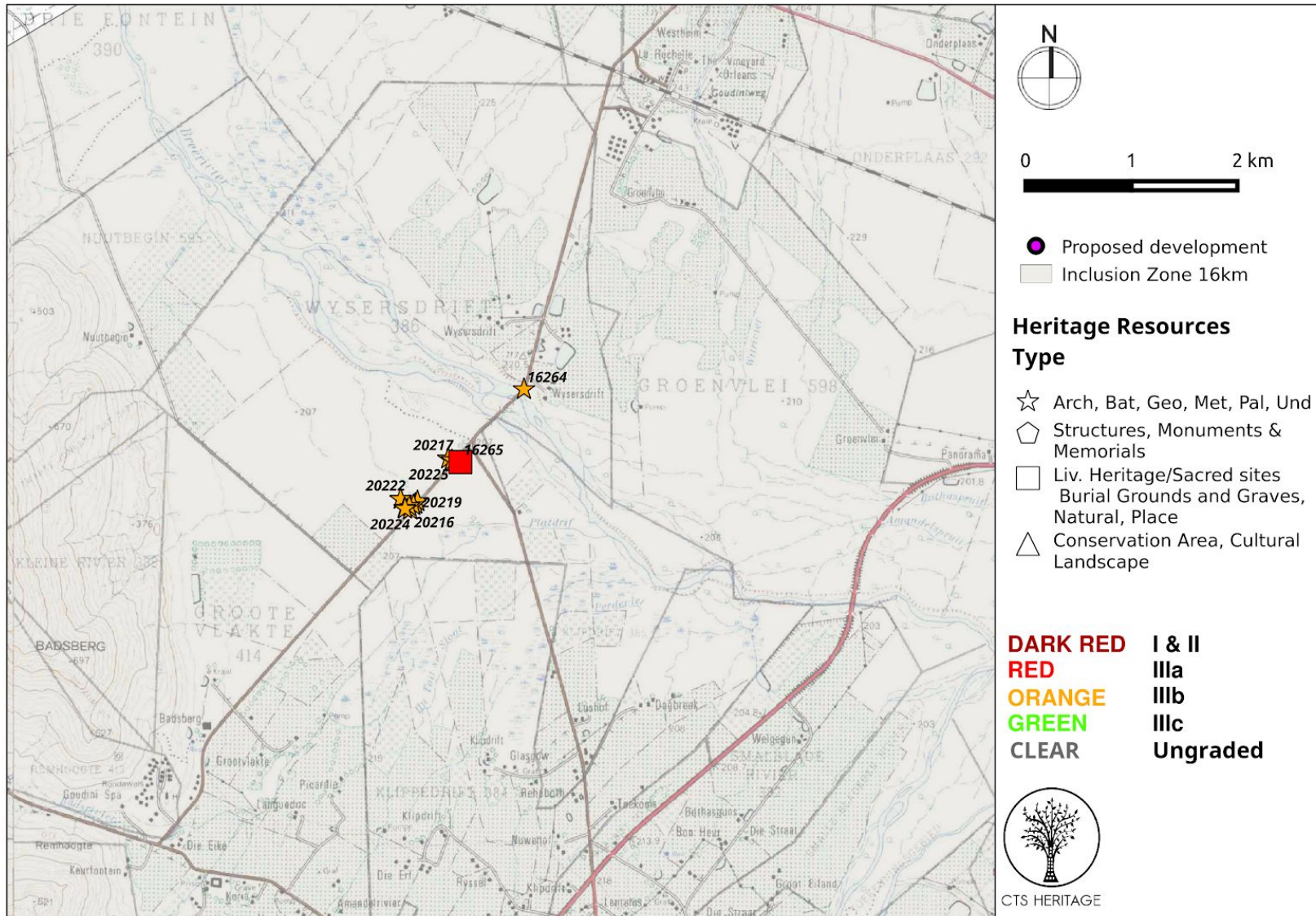


Figure 3c. Inset Map.

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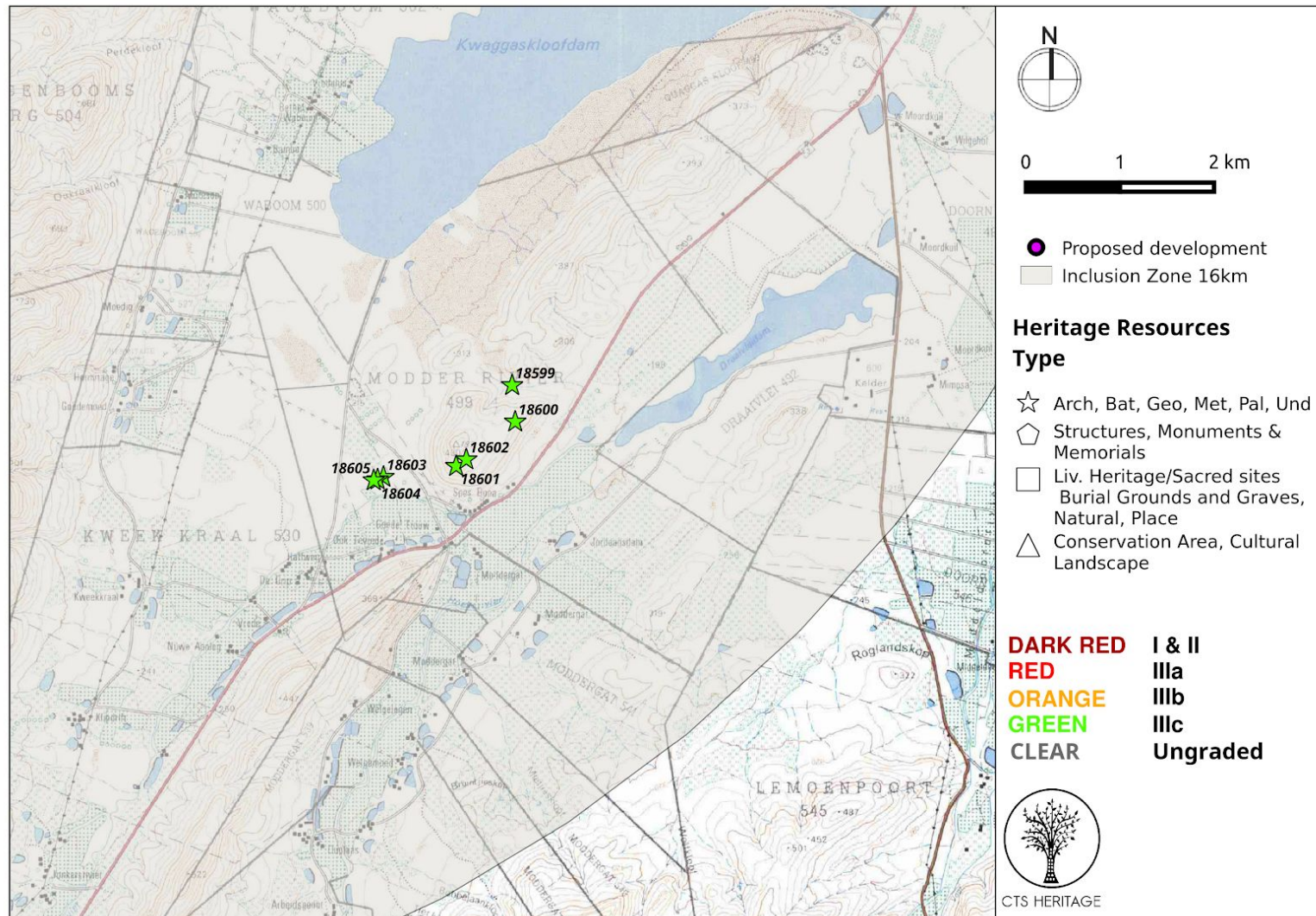


Figure 3d. Inset Map. Indicating spatial layout of sites in this region. Please see Appendix 1 for all Site IDs.

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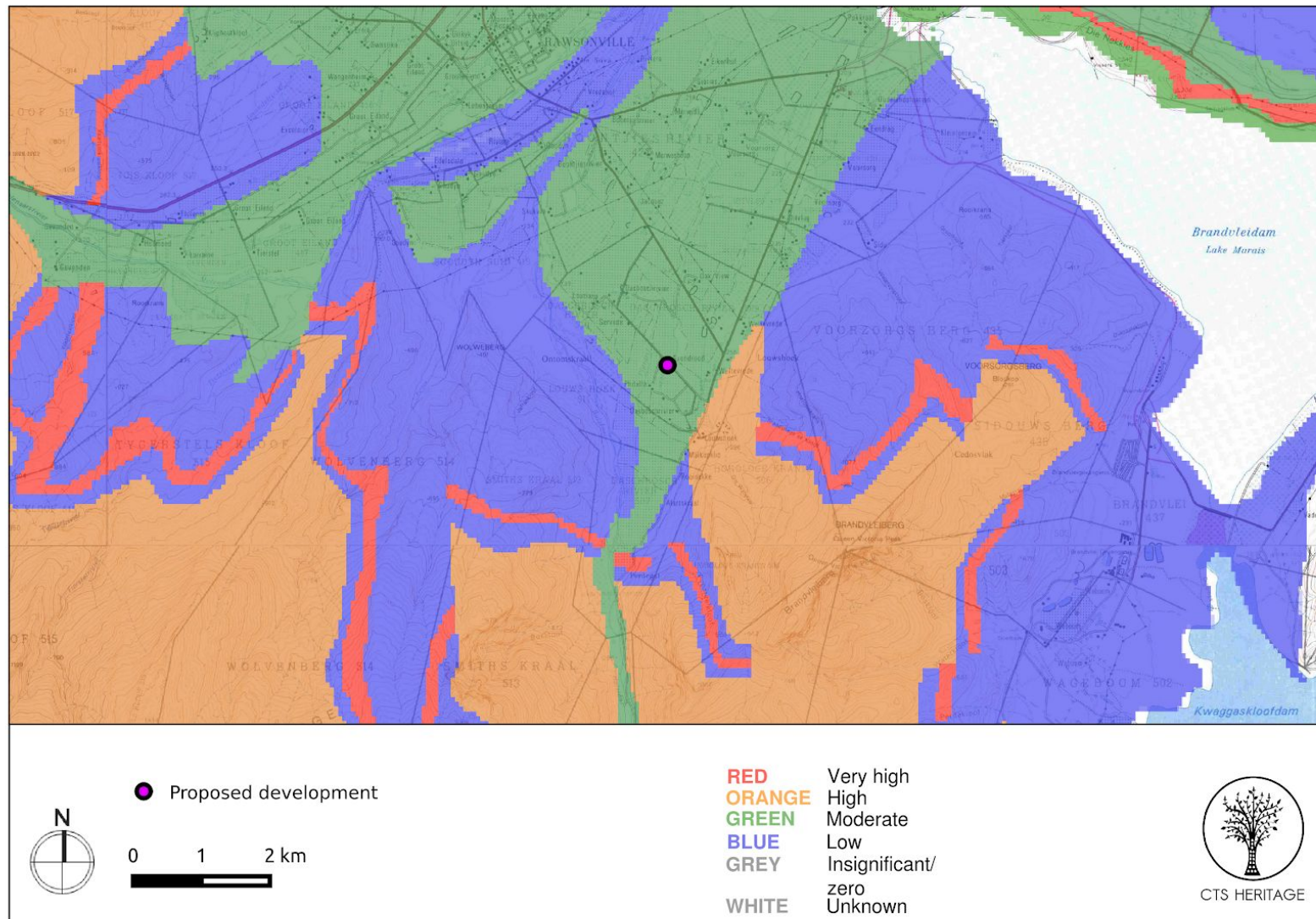


Figure 4. Palaeosensitivity Map. Indicating varied fossil sensitivity underlying the study area. Please See Appendix 3 for full guide to the legend.

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8. Heritage statement and character of the area

This application is for the establishment of a 25m high telecommunications mast at Avondrood, Worcester. The proposed structure will be located in close proximity to a built structure within the farm (Figure 1b and c). Heritage resources surrounding the proposed development area vary in both resource type and grade (Figure 3), however they are located at considerably far distances from the proposed development, the closest being approximately 8km away, and are unlikely to be affected in any way by the construction of the proposed telecommunications mast.

Previous heritage impact assessments conducted in the Worcester area surrounding the proposed development site (Kaplan, 2004; 2006; 2008; 2010 and Orton, 2004; 2008) have found that the area is not likely to experience any impacts to heritage and no archaeological mitigation was required for the various developments for which these assessments were conducted. Kaplan (2006, SAHRIS ID 6617) has noted that most of the Earlier and Middle Stone Age tools found in his study area “occur in a severely degraded and disturbed contexts.” This could be attributed to structures such as power lines and substations that have been built in the surrounding areas as the “local cultural landscape is one of farming” (Orton, 2004, SAHRIS ID 6233). Apart from the cluster of Grade II structures, monuments and memorials that occur in the surveyed areas within the Worcester Magisterial District, the bulk of the archaeological finds have mostly Grade III significance, with the most common being Grade IIIc (Figure 3a). These archaeological finds are also located at distances considerably far from the proposed development site and will not be impacted upon by the proposed development. The site is also located within a 161.31ha farm and this combined with the small footprint of the proposed development and the buildings already located on site suggests that the impacts on heritage resulting from this kind of development are highly unlikely.

The proposed site is situated in geological deposits of moderate paleontological sensitivity according to the SAHRIS Palaeosensitivity Map (Figure 4). However, due to its small footprint the proposed development is not likely to impact on any palaeontological resources.

RECOMMENDATION:

The heritage resources in the area proposed for development are sufficiently recorded

Based on the available information, including the scale and nature of the proposed development, it is unlikely that any significant heritage resources will be impacted and as such it is recommended that no further heritage studies are required.

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APPENDIX 1

List of heritage resources within the 16km Inclusion Zone

Site ID	Site no	Full Site Name	Site Type	Grading	Declaration
27150	9/2/110/0043	78a Stockenstrom Street, Worcester	Building	NA	Heritage Register
27151	9/2/110/0046	96 Durban Street, Worcester	Building	NA	Provisional Protection
27169	9/2/110/0002	36 Russell Street, Worcester	Building	Grade II	Provincial Heritage Site
27166	9/2/110/0006	Kleinplasie, Show Grounds, Worcester	Building	Grade II	Provincial Heritage Site
27167	9/2/110/0008	Old Drostdy, Somerset Street, Worcester	Building	Grade II	Provincial Heritage Site
27168	9/2/110/0009	Kaapse Draai, 165 High Street, Worcester	Building	Grade II	Provincial Heritage Site
27159	9/2/110/0010-309	43 Church Street, Worcester	Building	Grade II	Provincial Heritage Site
27160	9/2/110/0010-404	22 Fairbairn Street, Worcester	Building	Grade II	Provincial Heritage Site
27161	9/2/110/0012	66 Church Street, Worcester	Building	Grade II	Provincial Heritage Site
27162	9/2/110/0013	69 Porter Street, Worcester	Building	Grade II	Provincial Heritage Site
27164	9/2/110/0016	Afrikaner Museum, 75 Church Street, Worcester	Building	Grade II	Provincial Heritage Site
27158	9/2/110/0027	Dutch Reformed Mission Church Complex, Adderley Street, Worcester	Building	Grade II	Provincial Heritage Site
27152	9/2/110/0027/001	Old Dutch Reformed Mission Parsonage, 48 Adderley Street, Worcester	Building	Grade II	Provincial Heritage Site
27153	9/2/110/0027/002	Dutch Reformed Mission Church, 46 Adderley Street, Worcester	Building	Grade II	Provincial Heritage Site
27154	9/2/110/0031	20 Fairbairn Street, Worcester	Building	Grade II	Provincial Heritage Site
27148	9/2/110/0040	Old Technical College, 22 Adderley Street, Worcester	Building	Grade II	Provincial Heritage Site
27149	9/2/110/0042	78 Stockenstrom Street, Worcester	Building	Grade II	Provincial Heritage Site
27145	9/2/110/0049	Old Gaol, 1 Distillery Road, Worcester	Building	Grade II	Provincial Heritage Site

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27146	9/2/110/0050	24 Porter Street, Worcester	Building	Grade II	Provincial Heritage Site
27144	9/2/110/0057	Worcester Museum, Beck House, 21 Baring Street, Worcester	Building	Grade II	Provincial Heritage Site
27141	9/2/110/0059	St James the Great Church, Waterloo Road, Worcester	Building	Grade II	Provincial Heritage Site
27142	9/2/110/0060	Dutch Reformed Church, Church Street, Worcester	Building	Grade II	Provincial Heritage Site
27133	9/2/110/0064	162 Church Street, Worcester	Building	Grade II	Provincial Heritage Site
27134	9/2/110/0065	72 Fairbairn Street, Worcester	Building	Grade II	Provincial Heritage Site
27135	9/2/110/0066	1 and 3 Trappes Street and 163 Tulbagh Street, Worcester	Building	Grade II	Provincial Heritage Site
27129	9/2/110/0068	28 Church Street, Worcester	Building	Grade II	Provincial Heritage Site
27130	9/2/110/0070	Evangelical Lutheran Church, Adderley Street, Worcester	Building	Grade II	Provincial Heritage Site
27131	9/2/110/0071	Church Square, Worcester	Building	Grade II	Provincial Heritage Site
27132	9/2/110/0079	22 Fairbairn Street and 43 Church Street, Worcester	Building	Grade II	Provincial Heritage Site
29602	GEO061	Geosite: Brandvlei Hot Spring	Geological, Natural	Grade IIIa	NA
16265	BDBSBERG2	Badsberg 2	Burial Grounds & Graves	NA	NA
27170	9/2/110/0005-002	Hugo Naude House, 115 Russel Street, Worcester	Building	Grade II	Provincial Heritage Site
27163	9/2/110/0014	52 Church Street, Worcester	Building	Grade II	Provincial Heritage Site
16123	AANDEDOORNS1	Farm 369 Aan de Doorns 1	Artefacts	NA	NA
16124	AANDEDOORNS2	Farm 369 Aan de Doorns 2	Artefacts	NA	NA
16125	AANDEDOORNS3	Farm 369 Aan de Doorns 3	Artefacts	NA	NA
37711	TAND16	Tandfontein 16	Artefacts, Archaeological, Deposit, Rock Art	Grade IIIa	NA
27140	9/2/110/0058	37 Russel Street, Worcester	Building	Grade II	Provincial Heritage Site
16264	BDBSBERG1	Badsberg 1	Ruin & 100 years	NA	NA
17842	HBRIVIER1	Hartebeest Rivier 1	Artefacts	NA	NA

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17843	HBRIVIER2	Hartebeest Rivier 2	Artefacts	NA	NA
18599	KWG1	Quaggaskloof 1	Artefacts	Grade IIIc	NA
18600	KWG2	Quaggaskloof 2	Artefacts	Grade IIIc	NA
18601	KWG3	Quaggaskloof 3	Artefacts	Grade IIIc	NA
18602	KWG4	Quaggaskloof 4	Artefacts	Grade IIIc	NA
18603	KWG5	Quaggaskloof 5	Artefacts	Grade IIIc	NA
18604	KWG6	Quaggaskloof 6	Artefacts	Grade IIIc	NA
18605	KWG7	Quaggaskloof 7	Artefacts	Grade IIIc	NA
20224	SYM8	Symington Trust 8	Artefacts	NA	NA
20225	SYM9	Symington Trust 9	Artefacts	NA	NA
20216	SYM1	Symington Trust 1	Artefacts	NA	NA
20217	SYM10	Symington Trust 10	Artefacts	NA	NA
20218	SYM2	Symington Trust 2	Artefacts	NA	NA
20219	SYM3	Symington Trust 3	Artefacts	NA	NA
20220	SYM4	Symington Trust 4	Artefacts	NA	NA
20221	SYM5	Symington Trust 5	Artefacts	NA	NA
20222	SYM6	Symington Trust 6	Artefacts	NA	NA
20223	SYM7	Symington Trust 7	Artefacts	NA	NA
20837	WHILLS1	Worcester Hills 1	Artefacts	NA	NA
20838	WHILLS2	Worcester Hills 2	Artefacts	NA	NA
20839	WHILLS3	Worcester Hills 3	Artefacts	NA	NA
107992	ADD01	Aan De Doorns 01	Artefacts	Grade IIIc	NA
27139	9/2/110/0063	86 Durban Street, Worcester	Building	Grade II	Provincial Heritage Site

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APPENDIX 2

Reference List

Heritage Impact Assessments				
Nid	Report Type	Author/s	Date	Title
6617	AIA	Jonathan Kaplan	01/10/2006	Phase 1 Archaeological Impact Assessment
364416	AIA	Jonathan Kaplan	01/02/2010	Archaeological Assessment Of Portion 22 Of Farm 386 Wylersdrift Rawsonville Western
368991	AIA	Harriet Clift	01/11/1995	The Assimilation Of The Khoikhoi into The Rural
4838	AIA	Timothy Hart	01/06/2003	Heritage Impact Assessment Of A Proposed Effluent Disposal Site, Worcester
8303	AIA	Jayson Orton	05/08/2008	Heritage Statement For Proposed Breede Valley Shell Ultra City On Portion 61 Of Farm De Mond Van Hartebeest Rivier 379, Worcester Magisterial District, Western Cape
4839	AIA	Jonathan Kaplan	01/11/2006	Phase 1 Archaeological Impact Assessment: Proposed Development Barclay Hills (remainder Of The Farm Barclay No. 305) Worcester, Western Cape
6233	HIA	Jayson Orton	01/11/2004	Initial Heritage Impact Assessment For The Proposed Upgrade Of The Bacchus Substation Near Worcester
357266	AIA	Jonathan Kaplan	22/06/2004	Archaeological Development Scoping Proposed Worcester Waterfront
7372	AIA	Jonathan Kaplan	21/04/2008	Phase 1 Archaeological Impact Assessment: Proposed Sand Mine On The Farm Modder Rivier 499 (remainder Of Portion 8) Worcester

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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

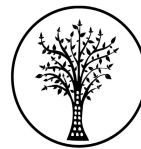
Full guide to Palaeosensitivity Map legend

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 PALAEOONTOLOGICAL 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

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- undertaking mitigation measures requested in previous assessments/records of decision.

(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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