

## SITE SENSITIVITY VERIFICATION REPORT

# THE PROPOSED INSTALLATION OF NEW SERVICE INFRASTRUCTURE AND EXPANSION OF EXISTING SERVICES ON VARIOUS PORTIONS OF FARM 1685, PORTION OF FARM 1674 AND FARM 1730 ON BOSCHENDAL ESTATE INCLUDING EXTERNAL PIPELINE CONNECTIONS TO MUNICIPAL SEWER AND WATER SERVICE INFRASTRUCTURE IN PNIEL

### INTRODUCTION AND SCOPE:

The "Protocols for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes ("the Protocols") were published in Government Gazette No. 43110 on 20 March 2020 and Government Gazette No. 43855 on 30 October 2020. The Protocols are allowed for in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA").

The Protocols must be complied with for every new application for Environmental Authorisation that is submitted after 9 May 2020. According to the Protocols, the EAP must verify the current use of the site in question and its environmental sensitivity as identified by the Screening Tool to determine the need for specialist inputs in relation to the themes included in the Protocols. This document serves as the Site Sensitivity Verification Report for the proposed development of 17 homesteads named 'Founders Estates' on Boshendal Estate in Stellenbosch including the servicing of the entire site.

The location of the proposed development is shown in the aerial image included in Figure 1. This site sensitivity verification relates to a Screening Tool Report (STR) completed for the site on 7 January 2022. The STR is attached as Appendix A.



Figure 1: Locality Map (created using Google Earth Pro)

**SENSITIVITY VERIFICATION METHODOLOGY:**

The site sensitivity verification statement was compiled by the EAP and is based on:

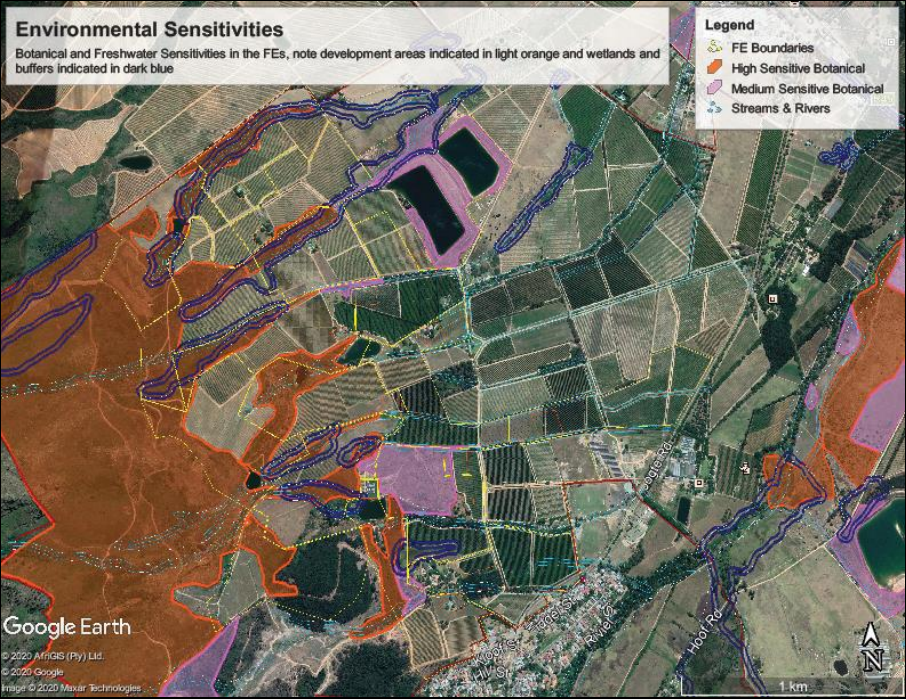
- A site visit undertaken on 7 September 2021;
- A desktop investigation using biodiversity and land use mapping tools (BGIS, Cape Farm Mapper, City of Cape Town Zoning Viewer, etc.); and
- Baseline information recorded in specialist assessments and reports previously undertaken for other projects on the site and in preparation for this application.

**SITE SENSITIVITY VERIFICATION:**

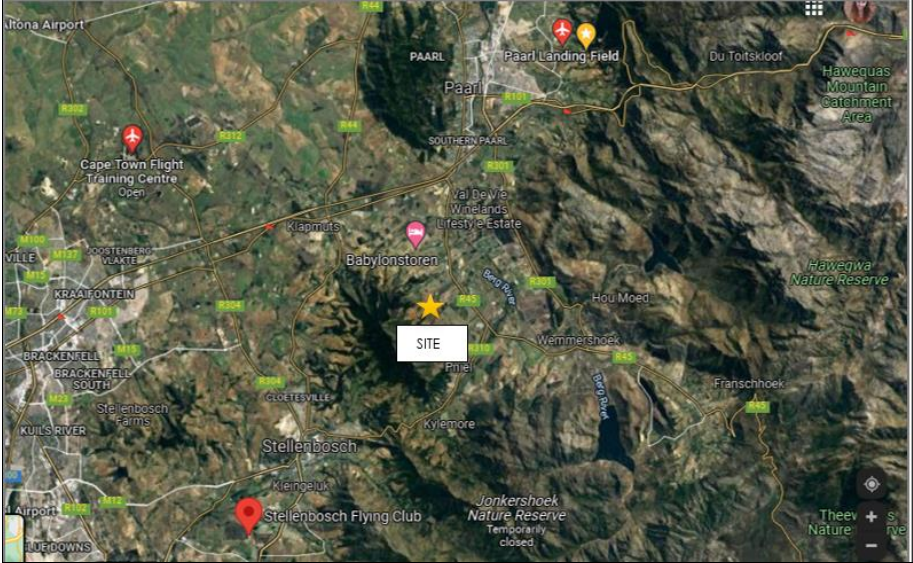
The table below, supporting photographs and reference to specialist assessments serve to:


- Verify land use and sensitivities identified in the screening report; and
- Confirm / contest the need for the various specialist inputs called for in terms of the screening tool report.

SENSITIVITY AND SPECIALIST INPUT IDENTIFIED IN TERMS OF THE DFFE SCREENING TOOL	VERIFICATION OF SITE-SPECIFIC SENSITIVITY AND MOTIVATION ON THE NEED FOR SPECIALIST INVESTIGATION
<p><b>Agricultural Theme: Very High</b> sensitivity</p> <p>Necessitating an agricultural impact assessment (in accordance with the protocol prescribed in GNR 320).</p> <p>Actual Sensitivity: <b>TBC</b></p>	<p>The STR considers the site to have 'Very High' agricultural sensitivity. This rating corresponds with the agricultural zoning of the site.</p> <p>In this regards, a site sensitivity verification exercise will be undertaken by soil scientist Johann Lanz. Should the agricultural sensitivity of the site be of 'Low' or 'Medium' sensitivity, a Compliance Statement will be prepared. In the case that the site is of 'High' or 'Very High' sensitivity as per the results of the STR, an Agricultural Agro-Ecosystem Impact Assessment will be undertaken.</p> <p>The applicable specialist report will be included in the Draft Basic Assessment Report (BAR).</p>
<p><b>Animal Species Theme: High</b> sensitivity</p> <p>Necessitating an animal species assessment (in accordance with Animal Species Assessment Protocols prescribed in GN 43855)</p> <p>Actual Sensitivity: <b>TBC</b></p>	<p>Based on the results from the screening tool, the proposed project area falls within an area with a 'High' Animal Species Theme based on the presence of an endangered bird species (<i>Circus maurus</i> – Black Harrier) and two invertebrate species.</p> <p>As such, a site sensitivity verification exercise will be undertaken by a faunal specialist to confirm the presence of Black Harrier and any other vertebrate species of conservation concern within the Project Area of Influence. Based on these results either a Compliance Statement or a full faunal sensitivity impact assessment will be undertaken and the report included in the Draft BAR.</p>
<p><b>Aquatic Biodiversity Theme: Very High</b></p> <p>Necessitating an Aquatic Biodiversity impact assessment (in accordance with the protocol prescribed in GNR 320, Aquatic</p>	<p>The Screening Tool has marked the site as having 'Very High' sensitivity. This corresponds with numerous watercourses which have been previously delineated on the site during baseline investigations and for which some ecological corridors have already been defined. Refer to the pre-liminary botanical and freshwater sensitivity map included in Figure 2 below. There are also aquatic CBAs mapped on site (refer to Figure 3).</p>

<p>Biodiversity Assessment Protocols).</p> <p>Actual Sensitivity: <b>High – Very High</b></p>	 <p><b>Environmental Sensitivities</b> Botanical and Freshwater Sensitivities in the FEs, note development areas indicated in light orange and wetlands and buffers indicated in dark blue</p> <p><b>Legend</b>      FE Boundaries      High Sensitive Botanical      Medium Sensitive Botanical      Streams &amp; Rivers</p> <p>Google Earth      © 2020 Airbus (Pty) Ltd.      © 2020 Google      Image © 2020 Maxar Technologies</p> <p>1 km</p> <p><i>Figure 2: Preliminary botanical and freshwater sensitivity map showing streams, rivers,, dams and wetlands on site as well sensitive botanical areas containing indigenous vegetation (layers from K Snaddon &amp; N Helme, 2021)</i></p> <p>In this regard, a Freshwater Impact Assessment will be undertaken by Kate Snaddon of the Freshwater Consulting Group to understand and assess the potential freshwater impacts associated with the proposal. These findings will furthermore guide the the routing and positioning of proposed services to minimise freshwater risks.</p> <p>The Freshwater Impact Assessment Report will be included in the Draft BAR.</p>
<p><b>Archaeological and Cultural Heritage Theme:</b> <b>Very High</b> sensitivity</p> <p>Necessitating archaeological &amp; cultural impact assessments (No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT))</p> <p>Actual Sensitivity: <b>High – Very High</b></p>	<p>The STR indicate 'Vey High' sensitivity in this regard.</p> <p>This rating corresponds with Farm 1685's status as a National Heritagae Site in terms of the National Heritage Resources Act (Act No. 25 of 1999).</p> <p>In this regard, an application will be made to the South African Heritage Resource Agency (SAHRA) in temrs of Section 27 of the NHRA to allow for the development and which will look at heritage impacts. An archaeologist will also be consulted to provide input on the archaeological sensitive area related to the silvermine landscape which is located in the southern portion of the site.</p> <p>The application will furthermore reference the Landscape Plan &amp; Guidelines (Draft Nov 2020) and Archaeological Management Plan (recently drafted) which are applicable to the Founders Estate NHS site ie Farm 1685.</p>
<p><b>Civil Aviation Theme</b> <b>Medium</b> sensitivity</p> <p>The need for a civil aviation assessment (in accordance with the protocol prescribed in GNR 320)</p>	<p>The STR notes that the site is located within 15 - 35 km from a major civil aviation radar within 8 and 15 km of other civil aviation aerodrome. This is presumably as a result of the Cape Town Flight Training Centre and/or the Paarl Landing Field and/or Stellenbosch Flying Club, all being located approx. 30 km away from the site (refer to Figure 3).</p>



<p>Actual Sensitivity: <b>Low - Negligible</b></p>	 <p><i>Figure 3: Civil aviation facilities within proximity to the site</i></p> <p>The proposed development however, would not affect any civil aviation activity given that the structures are not high and do not comprise any major telecommunications structures that may have potential to interfere with navigation/communication. There are also no runway facilities or any other activity that could affect an aviation aerodrome or radar or its operations.</p> <p>This rating is therefore disputed to, in fact, be Low- Negligible.</p> <p>As such, no specialist investigations are deemed necessary and none will be undertaken.</p>
<p><b>Terrestrial Biodiversity Theme:</b></p> <p><b>Very High</b> sensitivity</p> <p>Necessitating a terrestrial biodiversity impact assessment (Terrestrial Biodiversity Assessment Protocols )</p> <p>Actual Sensitivity: <b>High - Very High</b></p>	<p>The Screening Tool has marked the site as 'Very High' Sensitivity for this theme.</p> <p>As such, independent specialists have been commissioned to undertake assessments of both plant and animal species on site (refer to the Plant Species and Animal Species Theme).</p> <p>These findings will be incorporated into the Draft BAR.</p>
<p><b>Plant Species Theme:</b></p> <p><b>High</b> sensitivity</p> <p>Necessitating a plant species assessment (General Assessment Protocols).</p> <p>Actual Sensitivity: <b>TBC</b></p>	<p>Based on the results from the screening tool, the western portion of the proposed project area falls within an area designated as having a 'High' and 'Moderate' sensitivity for the Plant Species Theme based on the potential presence of a number of plant species of conservation concern.</p> <p>This corresponds with the fact that the site borders the Simonsberg Nature Reserve to the west and baseline information previously recorded (refer to Figure 2). The Biodiversity Map generated for the site also shows a number of CBAs and ESA (both terrestrial and aquatic) on site (refer to Figure 4).</p>

	 <p><b>Biodiversity Map</b></p> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Farm Portions</li> <li>BSP ESA: Restore</li> <li>ESA2: Restore from plantation or high density I&amp;P</li> <li>ESA2: Restore from other land use</li> <li>RSP ESA</li> <li>ESA: Aquatic</li> <li>ESA: Terrestrial</li> <li>RSP CBA: Degraded</li> <li>CBA2: Aquatic</li> <li>CBA2: Terrestrial</li> <li>BSP CBA</li> <li>CBA: Terrestrial</li> <li>CBA: River</li> <li>CBA: Wetland</li> </ul> <p>Scale: 1:18 056 Date created: June 11, 2020</p> <p>Western Cape Government Agriculture</p>
<p><b>Defence Theme</b> <b>Low</b> sensitivity</p> <p>Actual Sensitivity: <b>Low</b></p>	<p>Defence is rated as 'Low' sensitivity by the STR as such no specialist investigations into this theme and associated impacts are deemed necessary.</p>
<p><b>Paleontology Theme</b> <b>Medium</b> sensitivity</p> <p>Actual Sensitivity: <b>TBC</b></p>	<p>The Section 27 heritage application will incorporate and report on Palaeontological aspects.</p>
<p><b>Additional specialist studies called for by the Screening Report</b></p>	
<p><b>Landscape/Visual Impact Assessment</b> (General Assessment Protocols)</p>	<p>The Section 27 application will incorporate and report on landscape/visual aspects.</p>
<p><b>Socio-Economic Assessment</b> (General Assessment Protocols)</p>	<p>The socio-economic aspects of the site and proposal will be considered and addressed in the Draft BAR through inclusion of the following:</p> <ul style="list-style-type: none"> <li>• Socio-economic profile of the municipality as well as the community around the site;</li> <li>• Detailing the financial contribution of the project to the economy as well as to previously disadvantaged individuals.</li> </ul> <p>Given the private-nature of the development which will be confined to Boschendal Estate, significant socio-economic impacts requiring specialist investigations are not envisaged and as such a full socio-economic study will not be undertaken.</p>
<p><b>Hydrology Assessment</b></p>	<p>The Freshwater Impact Assessment will look at hydrological aspects. A Stormwater Management Plan will also be prepared. Furthermore, a</p>

	flood line study will be undertaken which will also report on hydrological aspects.
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**References:**

Helme, N, BOTANICAL BASELINE ASSESSMENT AND CONSTRAINTS STUDY: BOSCHENDAL ESTATE, PNIEL, 2019.

Snaddon, K (FCG), BOSCHENDAL ESTATE CONSTRAINTS ANALYSIS: INLAND AQUATIC ECOSYSTEMS, 2019

## **APPENDIX A:**

### Screening Tool Report

**SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION AS  
REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE  
ENVIRONMENTAL SENSITIVITY**

**EIA Reference number:** Pending

**Project name:** THE PROPOSED DEVELOPMENT OF THE FOUNDERS ESTATES, INCLUDING  
INSTALLATION OF SERVICES AND DEVELOPMENT OF ROADS, BOSCHENDAL

**Project title:** THE PROPOSED DEVELOPMENT OF THE FOUNDERS ESTATES, INCLUDING  
INSTALLATION OF SERVICES AND DEVELOPMENT OF ROADS, BOSCHENDAL

**Date screening report generated:** 07/01/2022 14:01:12

**Applicant:** Boschendal (Pty) Ltd

**Compiler:** Chand Environmental Consultants

**Compiler signature:**  
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**Application Category:** Any activities within or close to a watercourse



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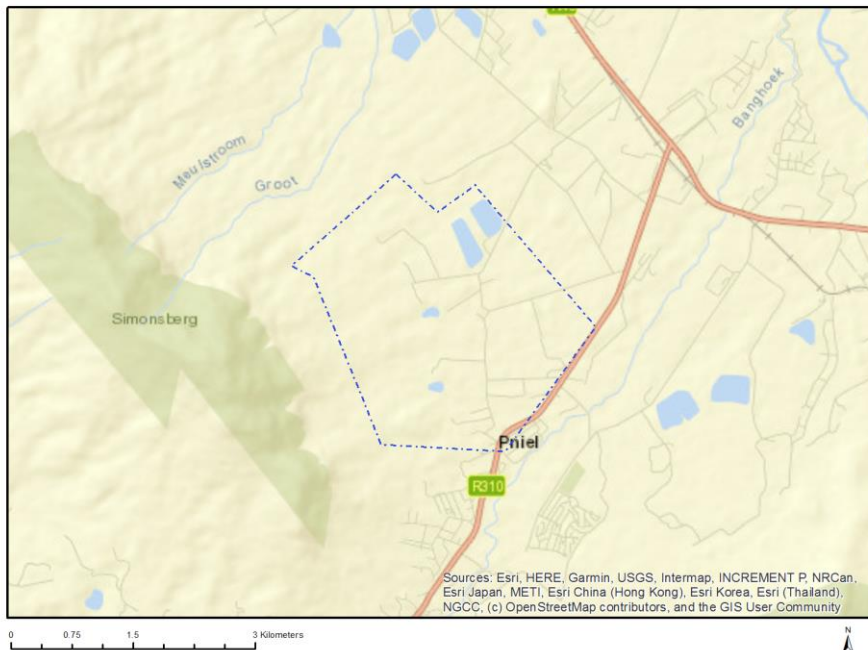
# Proposed Project Location

## Orientation map 1: General location

**General Orientation: THE PROPOSED DEVELOPMENT OF THE FOUNDERS ESTATES, INCLUDING INSTALLATION OF SERVICES AND DEVELOPMENT OF ROADS, BOSCHENDAL**



## Map of proposed site and relevant area(s)



## Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	PNIEL	1	0	33°53'40.53S	18°57'37.42E	Erven
2	PNIEL	503	0	33°53'27.03S	18°57'39.79E	Erven
3	PNIEL	154	0	33°53'29.64S	18°57'31.03E	Erven
4	PNIEL	497	0	33°53'25.93S	18°57'41.81E	Erven
5	PNIEL	506	0	33°53'27.4S	18°57'39.07E	Erven
6	PNIEL	513	0	33°53'28.52S	18°57'36.89E	Erven
7	PNIEL	516	0	33°53'28.86S	18°57'36.3E	Erven
8	PNIEL	520	0	33°53'30.22S	18°57'36.72E	Erven
9	PNIEL	524	0	33°53'28.72S	18°57'39.21E	Erven
10	PNIEL	676	0	33°53'32.29S	18°57'29.62E	Erven
11	PNIEL	832	0	33°53'28.76S	18°57'37.75E	Erven
12	PNIEL	877	0	33°53'31.72S	18°57'27.06E	Erven
13	PNIEL	896	0	33°53'31.73S	18°57'36.76E	Erven
14	PNIEL	153	0	33°53'29.9S	18°57'28.63E	Erven
15	PNIEL	504	0	33°53'27.46S	18°57'40.14E	Erven
16	PNIEL	507	0	33°53'27.75S	18°57'38.38E	Erven
17	PNIEL	515	0	33°53'29.22S	18°57'36.98E	Erven
18	PNIEL	517	0	33°53'29.16S	18°57'35.7E	Erven
19	PNIEL	522	0	33°53'29.46S	18°57'38.02E	Erven
20	PNIEL	501	0	33°53'26.61S	18°57'40.59E	Erven
21	PNIEL	878	0	33°53'32.22S	18°57'25.59E	Erven
22	PNIEL	530	0	33°53'30.51S	18°57'36.19E	Erven
23	PNIEL	155	0	33°53'31.91S	18°57'36.75E	Erven
24	PNIEL	508	0	33°53'28.21S	18°57'38.78E	Erven
25	PNIEL	509	0	33°53'28.54S	18°57'38.2E	Erven
26	PNIEL	876	0	33°53'32.14S	18°57'27.23E	Erven
27	PNIEL	500	0	33°53'26.28S	18°57'41.21E	Erven
28	PNIEL	510	0	33°53'28.09S	18°57'37.74E	Erven

29	PNIEL	511	0	33°53'28.36S	18°57'37.21E	Erven
30	PNIEL	514	0	33°53'28.65S	18°57'36.59E	Erven
31	PNIEL	521	0	33°53'29.82S	18°57'37.41E	Erven
32	PNIEL	602	0	33°53'36.52S	18°57'25.64E	Erven
33	PNIEL	505	0	33°53'27.86S	18°57'39.45E	Erven
34	PNIEL	512	0	33°53'28.97S	18°57'37.42E	Erven
35	PNIEL	518	0	33°53'29.61S	18°57'36.2E	Erven
36	PNIEL	523	0	33°53'29.09S	18°57'38.61E	Erven
37	PNIEL	675	0	33°53'31.96S	18°57'30.37E	Erven
38	MISSING	1194	0	33°53'25.26S	18°57'39.75E	Farm
39		1674	0	33°53'20.07S	18°56'31.64E	Farm
40	MISSING	969	0	33°51'53.21S	18°56'48.84E	Farm
41		1730	0	33°53'22.39S	18°58'38.89E	Farm
42		1674	0	33°53'12.72S	18°57'49.06E	Farm
43		1674	0	33°52'37.1S	18°57'57.12E	Farm
44		1685	0	33°52'59.64S	18°57'6.75E	Farm
45		1685	11	33°52'54.42S	18°57'17.05E	Farm Portion
46	MISSING	966	5	33°52'13.88S	18°56'18.33E	Farm Portion
47		1674	7	33°52'29.09S	18°58'9.46E	Farm Portion
48		1685	10	33°52'38.02S	18°57'13.89E	Farm Portion
49		1674	1	33°53'14.58S	18°56'30.61E	Farm Portion
50		1674	6	33°52'47.33S	18°57'34.53E	Farm Portion
51		1685	8	33°52'59.86S	18°56'40.63E	Farm Portion
52		1685	17	33°53'21.79S	18°57'33.9E	Farm Portion
53		1674	4	33°51'51.56S	18°57'58.49E	Farm Portion
54		1685	9	33°52'43.91S	18°56'53.27E	Farm Portion
55		1685	12	33°52'54.64S	18°56'58.71E	Farm Portion
56		1730	0	33°53'22.39S	18°58'38.89E	Farm Portion
57	MISSING	1194	8	33°53'25.26S	18°57'40.01E	Farm Portion
58		1685	18	33°53'8.14S	18°57'37.91E	Farm Portion
59		1685	4	33°52'20.51S	18°56'55.37E	Farm Portion
60		1685	5	33°52'27.53S	18°56'27.59E	Farm Portion
61		1685	3	33°52'13.96S	18°56'44.21E	Farm Portion
62		1685	13	33°53'7.31S	18°56'58.11E	Farm Portion
63		1674	14	33°53'13.97S	18°57'49.08E	Farm Portion
64		1674	3	33°51'43.39S	18°57'22.36E	Farm Portion
65		1685	2	33°52'20.52S	18°57'19.76E	Farm Portion
66		1685	7	33°52'31.94S	18°56'57.03E	Farm Portion
67		1685	19	33°52'58.34S	18°57'46.72E	Farm Portion
68		1685	6	33°52'39.89S	18°56'38.46E	Farm Portion
69		1685	14	33°53'10.77S	18°57'18.73E	Farm Portion
70		1685	15	33°53'20.52S	18°56'53.27E	Farm Portion
71		1685	16	33°53'26.84S	18°57'17.59E	Farm Portion

Development footprint<sup>1</sup> vertices:  
No development footprint(s) specified.

## Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

<sup>1</sup> “development footprint”, means the area within the site on which the development will take place and includes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.



No nearby wind or solar developments found.

## Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

## Environmental screening results and assessment outcomes

The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is:

**Any activities within or close to a watercourse.**

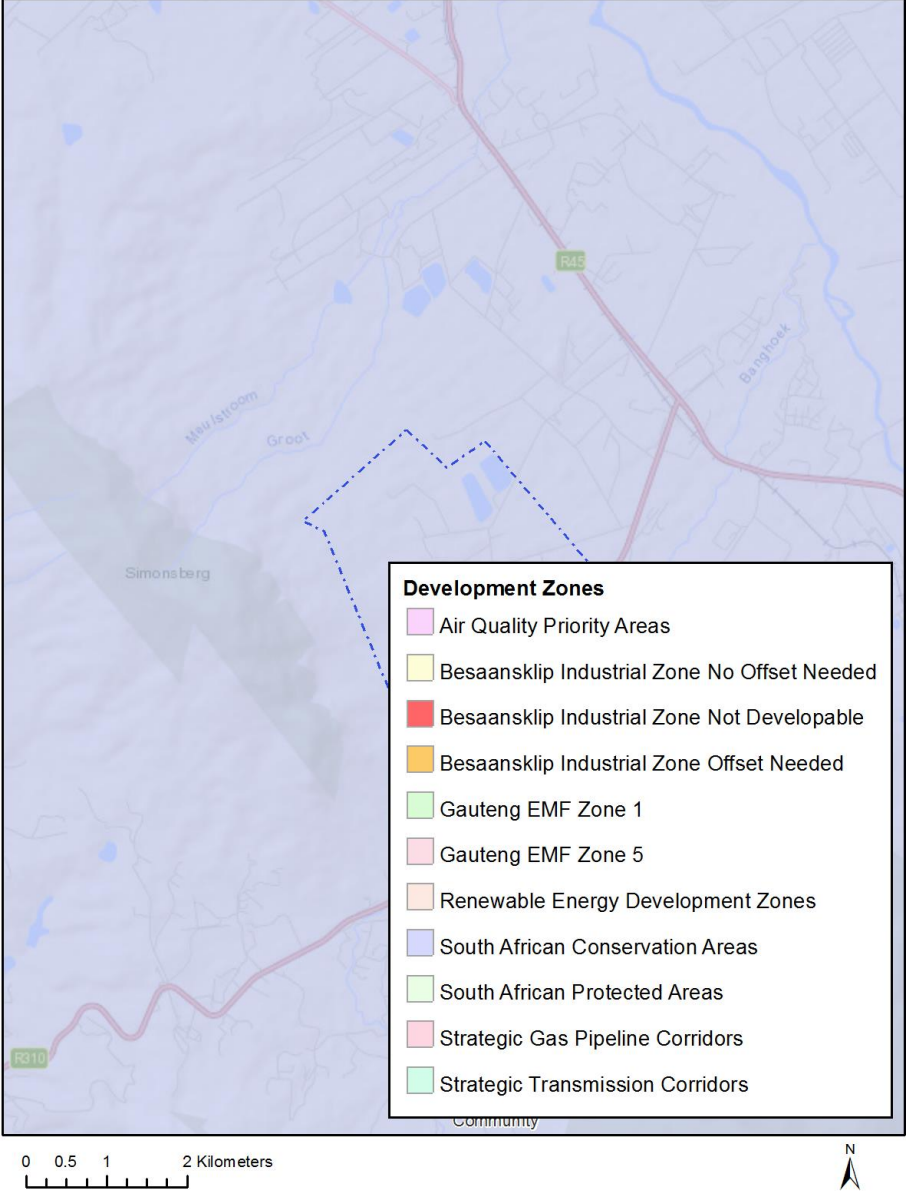
### Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-Central corridor	<a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf</a>
Strategic Gas Pipeline Corridors -Phase 1a & 1b: Saldanha to Ankerlig and Saldanha to Mossel Bay	<a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf</a>
South African Protected Areas	<a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SAPAD_OR_2021_Q3_Metadata.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SAPAD_OR_2021_Q3_Metadata.pdf</a>
South African Conservation Areas	<a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2021_Q3_Metadata.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2021_Q3_Metadata.pdf</a>

Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones

**Project Location: THE PROPOSED DEVELOPMENT OF THE FOUNDERS ESTATES, INCLUDING INSTALLATION OF SERVICES AND DEVELOPMENT OF ROADS, BOSCHENDAL**



**Proposed Development Area Environmental Sensitivity**

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme	X			
Animal Species Theme		X		
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme	X			
Civil Aviation Theme			X	
Defence Theme				X
Paleontology Theme			X	
Plant Species Theme		X		
Terrestrial Biodiversity Theme	X			

### Specialist assessments identified

Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

N o	Special ist assess ment	Assessment Protocol
1	Landscape/Visual Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
2	Archaeological and Cultural Heritage Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
3	Palaeontology Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
4	Terrestrial Biodiversity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf</a>
5	Aquatic Biodiversity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf</a>
6	Hydrology	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>

	Assessment	
7	Socio-Economic Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
8	Plant Species Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf</a>
9	Animal Species Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf</a>

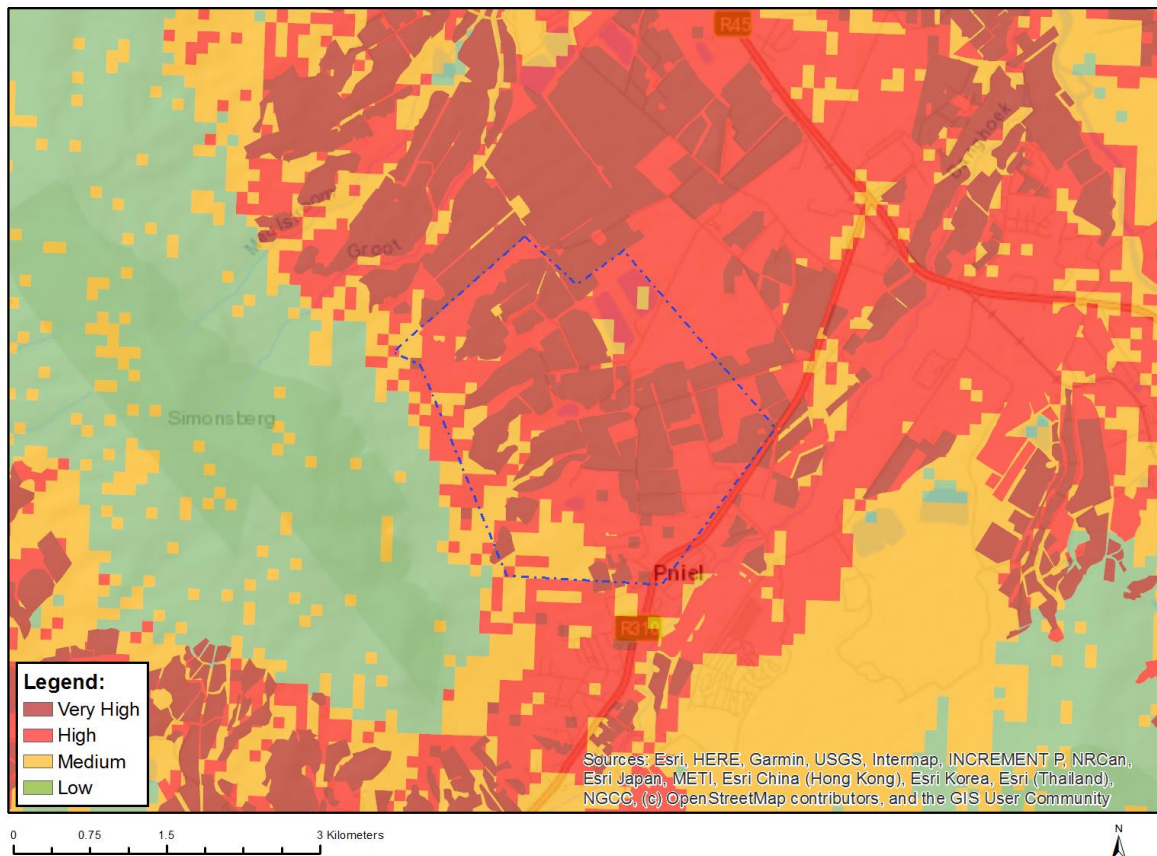
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## Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.

### MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY



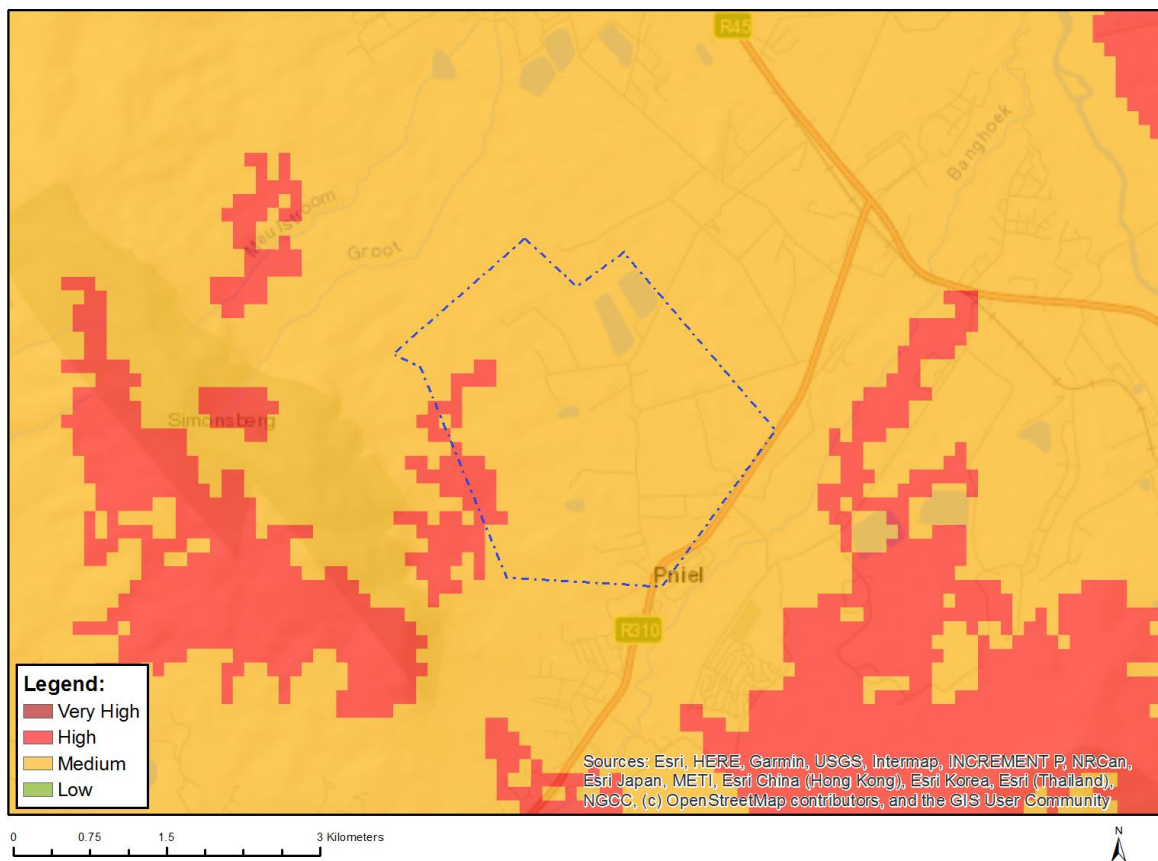
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

#### Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;09. Moderate-High/10. Moderate-High
High	Old Fields;Land capability;09. Moderate-High/10. Moderate-High
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
Very High	Land capability;11. High/12. High-Very high/13. High-Very high/14. Very high/15. Very high
Very High	Viticulture;Land capability;09. Moderate-High/10. Moderate-High
Very High	Viticulture;Land capability;11. High/12. High-Very high/13. High-Very high/14. Very high/15. Very high

Very High	Viticulture;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
Very High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;11. High/12. High-Very high/13. High-Very high/14. Very high/15. Very high
Very High	Horticulture;Land capability;09. Moderate-High/10. Moderate-High
Very High	Horticulture;Land capability;11. High/12. High-Very high/13. High-Very high/14. Very high/15. Very high
Very High	Horticulture;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

## MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



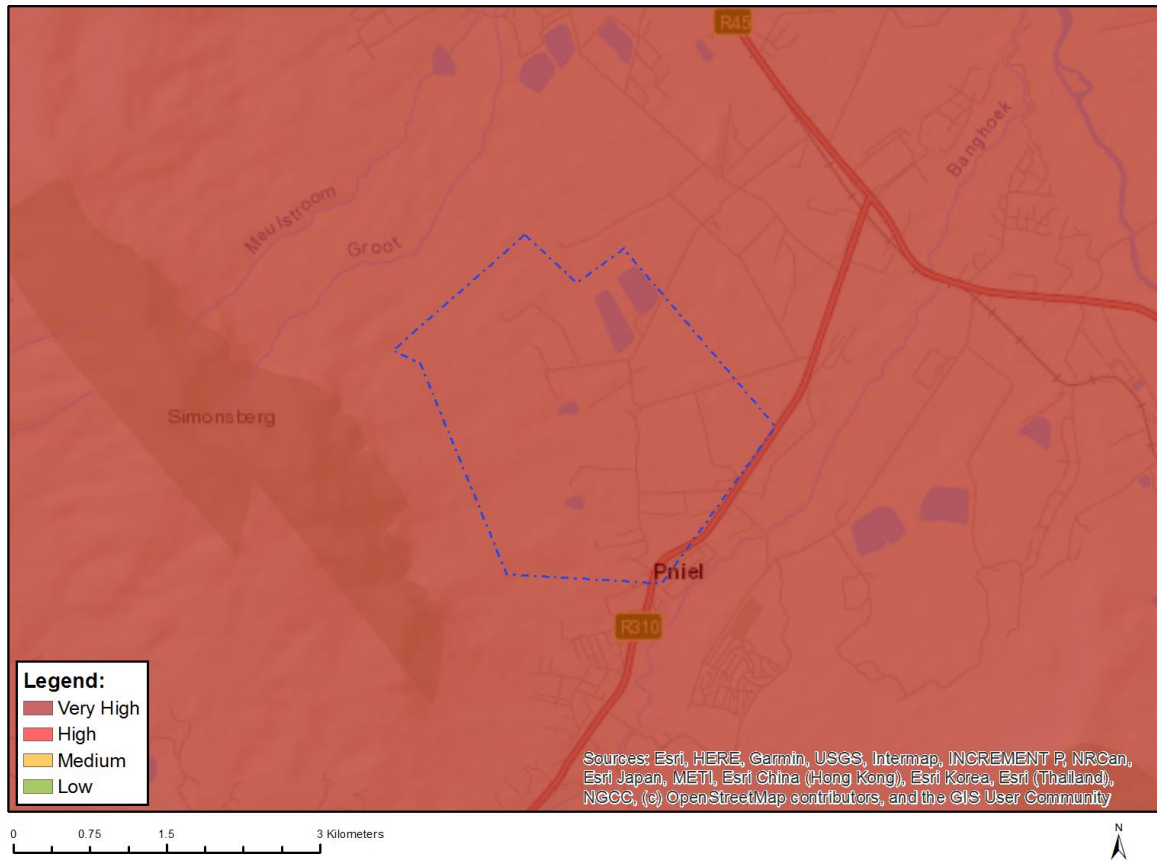
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at [eiadatarequests@sanbi.org.za](mailto:eiadatarequests@sanbi.org.za) listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

### Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Circus maurus
Medium	Invertebrate-Conocephalus peringueyi
Medium	Invertebrate-Aneuryphymus montanus

## MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

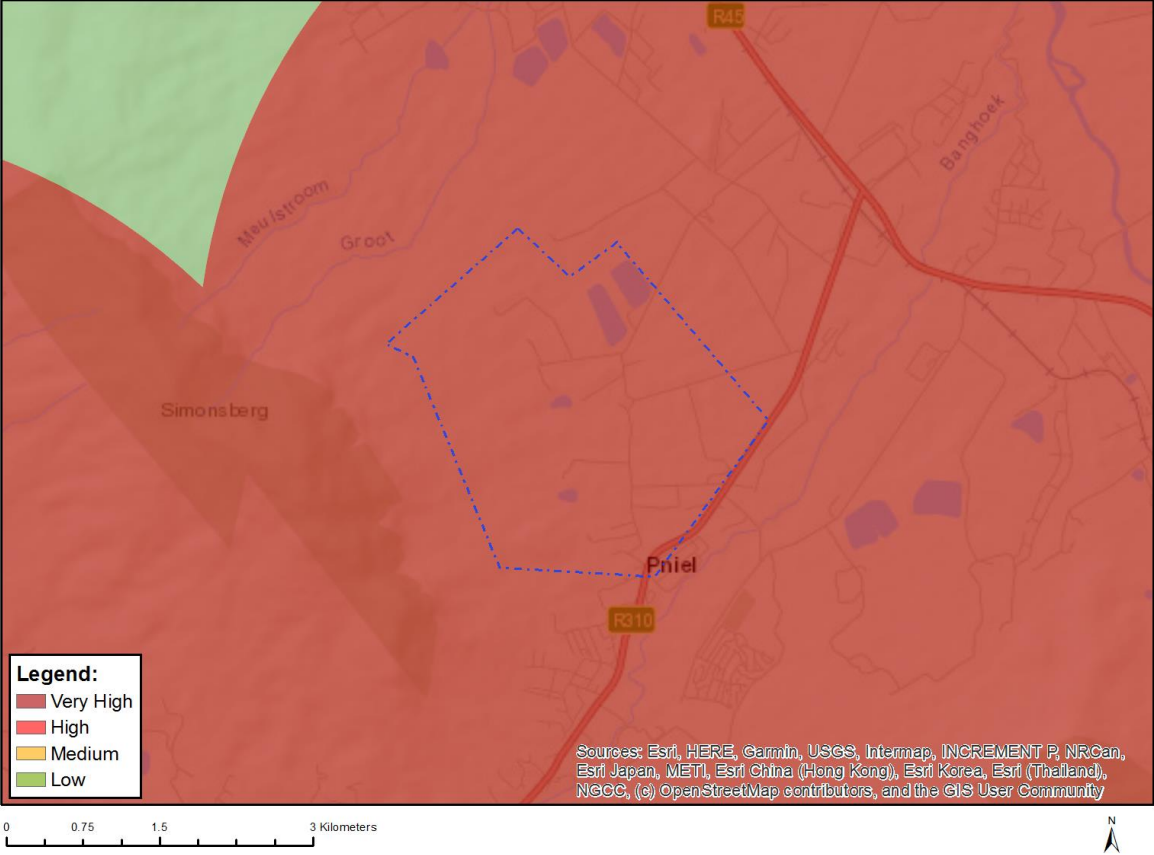


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

### Sensitivity Features:

Sensitivity	Feature(s)
Very High	Aquatic CBAs
Very High	Strategic water source area
Very High	Wetlands and Estuaries

# MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



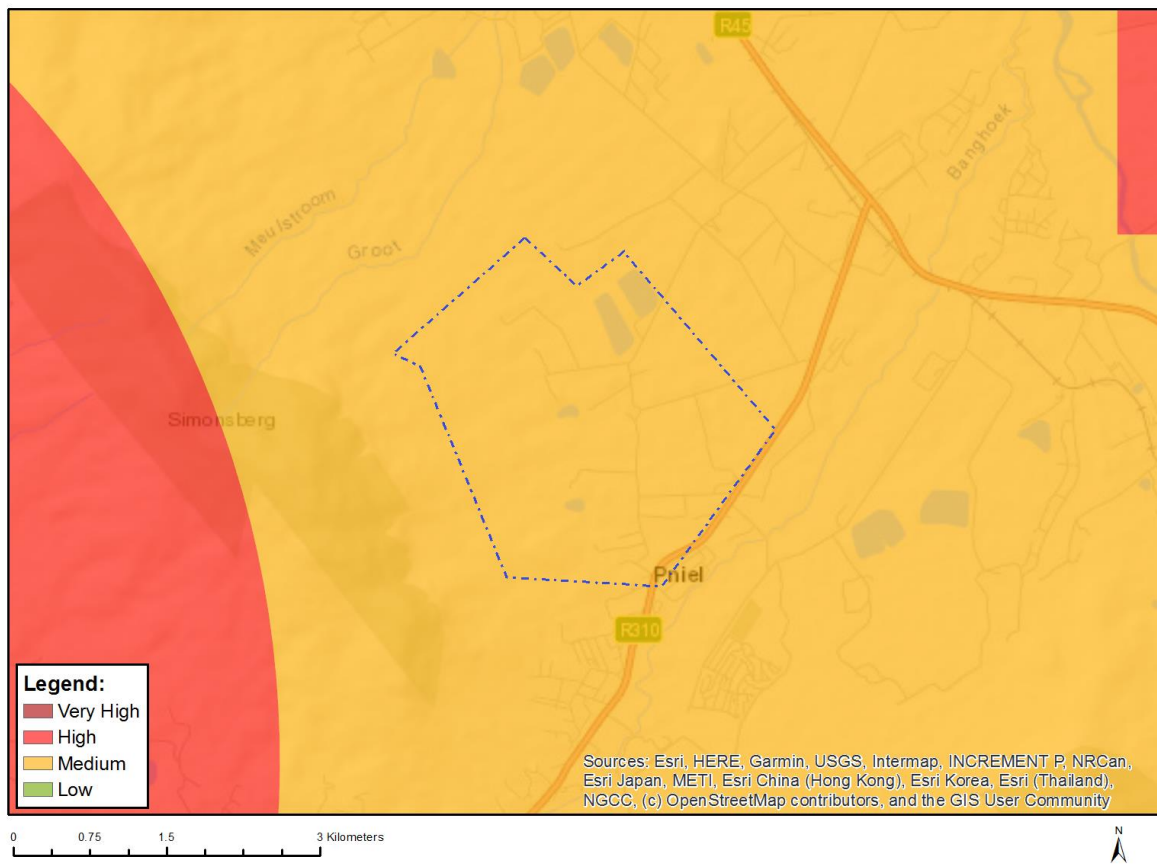
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

**Sensitivity Features:**

Sensitivity	Feature(s)
High	Within 50m of a Grade IIIc Heritage site
Very High	Within 5km of a Grade I Heritage site
Very High	Within 2km of a Grade II Heritage site
Very High	Within 100m of an Ungraded Heritage site



## MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

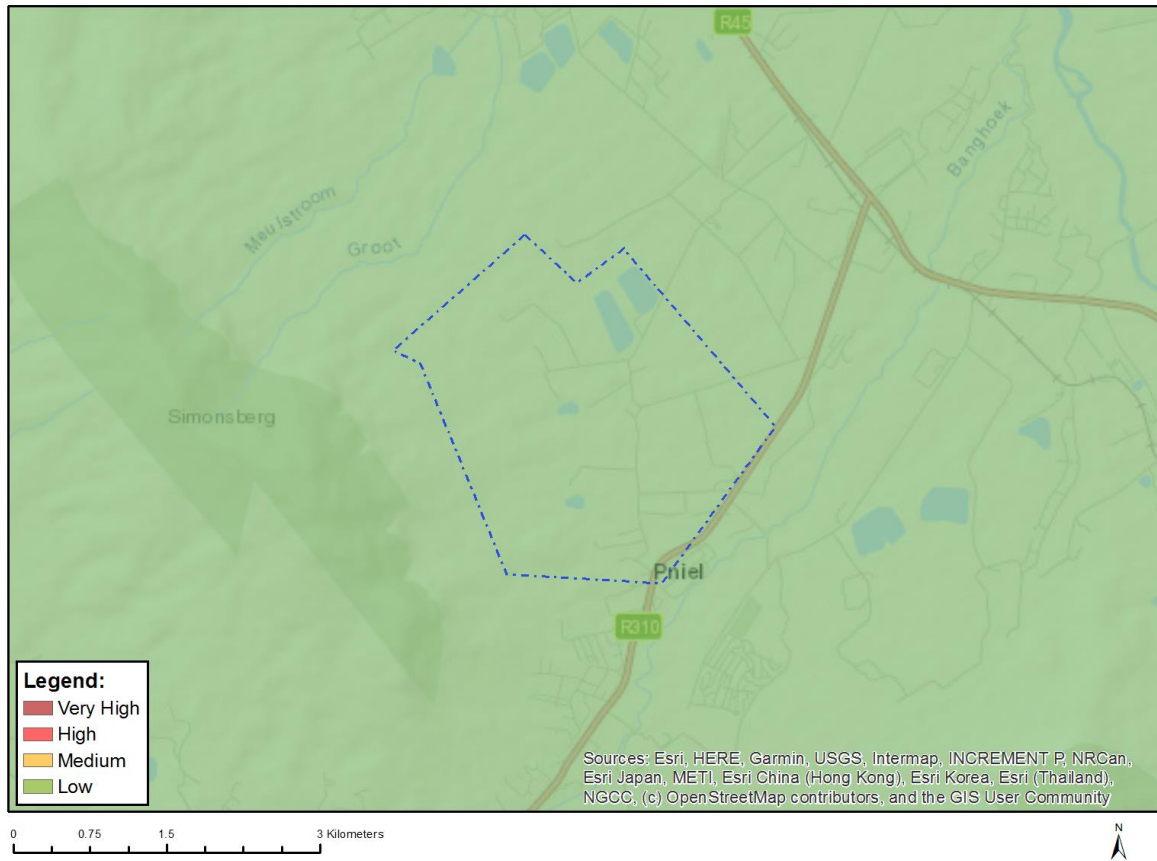


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

### Sensitivity Features:

Sensitivity	Feature(s)
Medium	Between 15 and 35 km from a civil aviation radar
Medium	Between 15 and 35 km from a major civil aviation aerodrome
Medium	Between 8 and 15 km of other civil aviation aerodrome

## MAP OF RELATIVE DEFENCE THEME SENSITIVITY

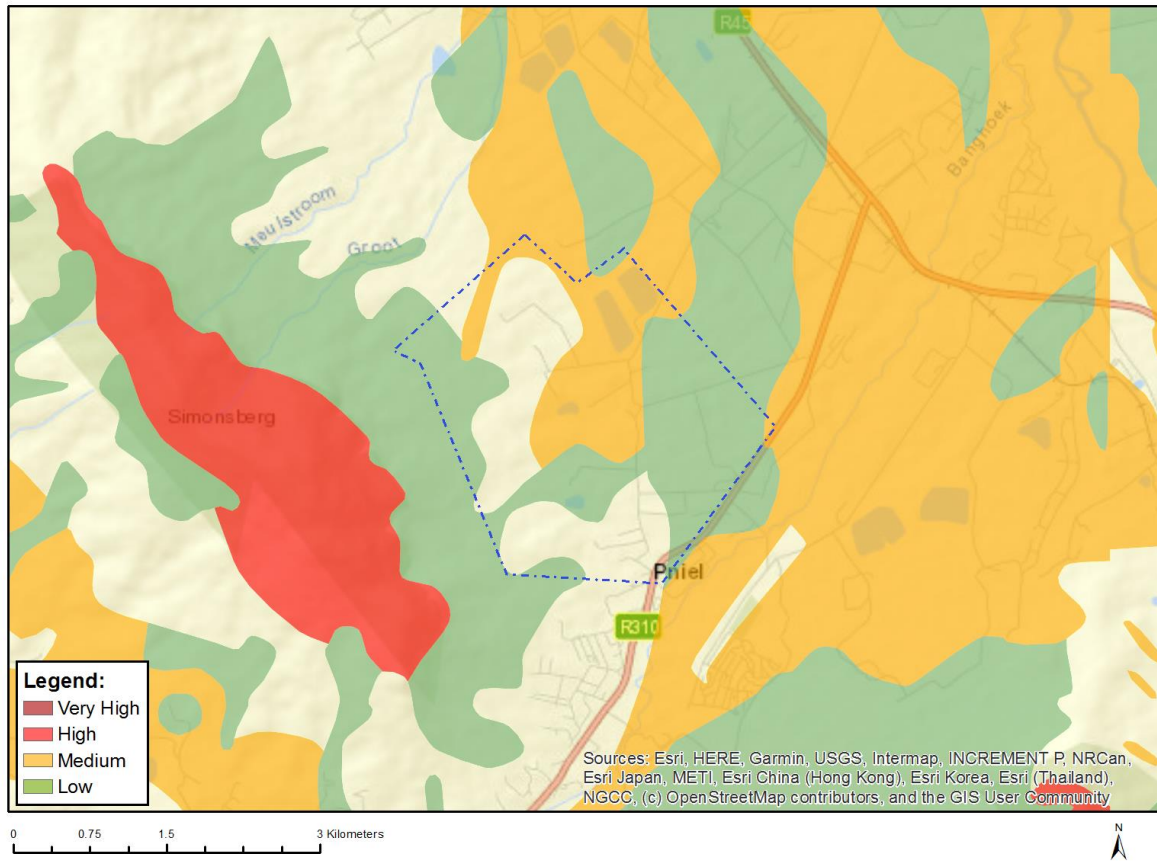


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

### Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

## MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

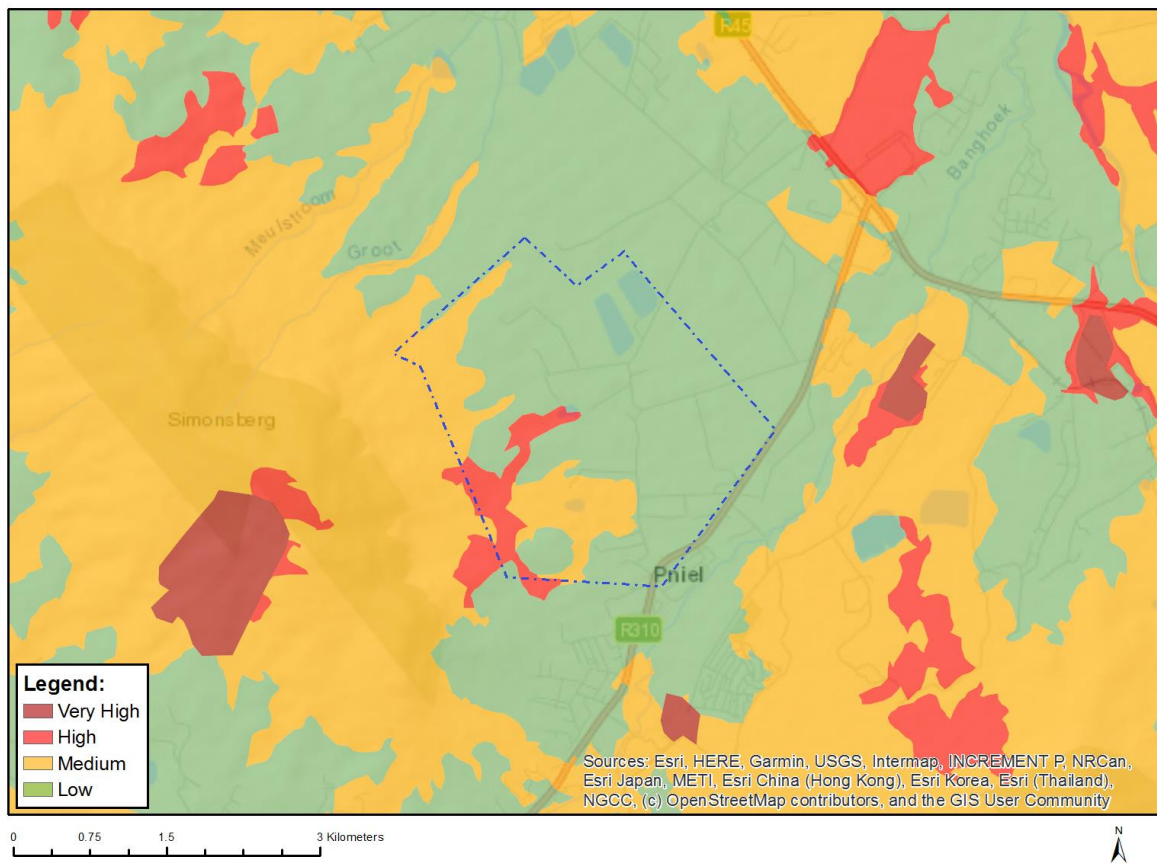


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

### Sensitivity Features:

Sensitivity	Feature(s)
Low	Features with a Low paleontological sensitivity
Medium	Features with a Medium paleontological sensitivity

## MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at [eiadatarequests@sanbi.org.za](mailto:eiadatarequests@sanbi.org.za) listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

### Sensitivity Features:

Sensitivity	Feature(s)
High	Leucadendron argenteum
Low	Low Sensitivity
Medium	Lampranthus dilutus
Medium	Lampranthus filicaulis
Medium	Lampranthus spiniformis
Medium	Antimima aristulata
Medium	Erepsia patula
Medium	Erepsia ramosa
Medium	Ruschia diversifolia
Medium	Ruschia schollii
Medium	Drosanthemum hispifolium
Medium	Amphithalea imbricata
Medium	Xiphotheca lanceolata

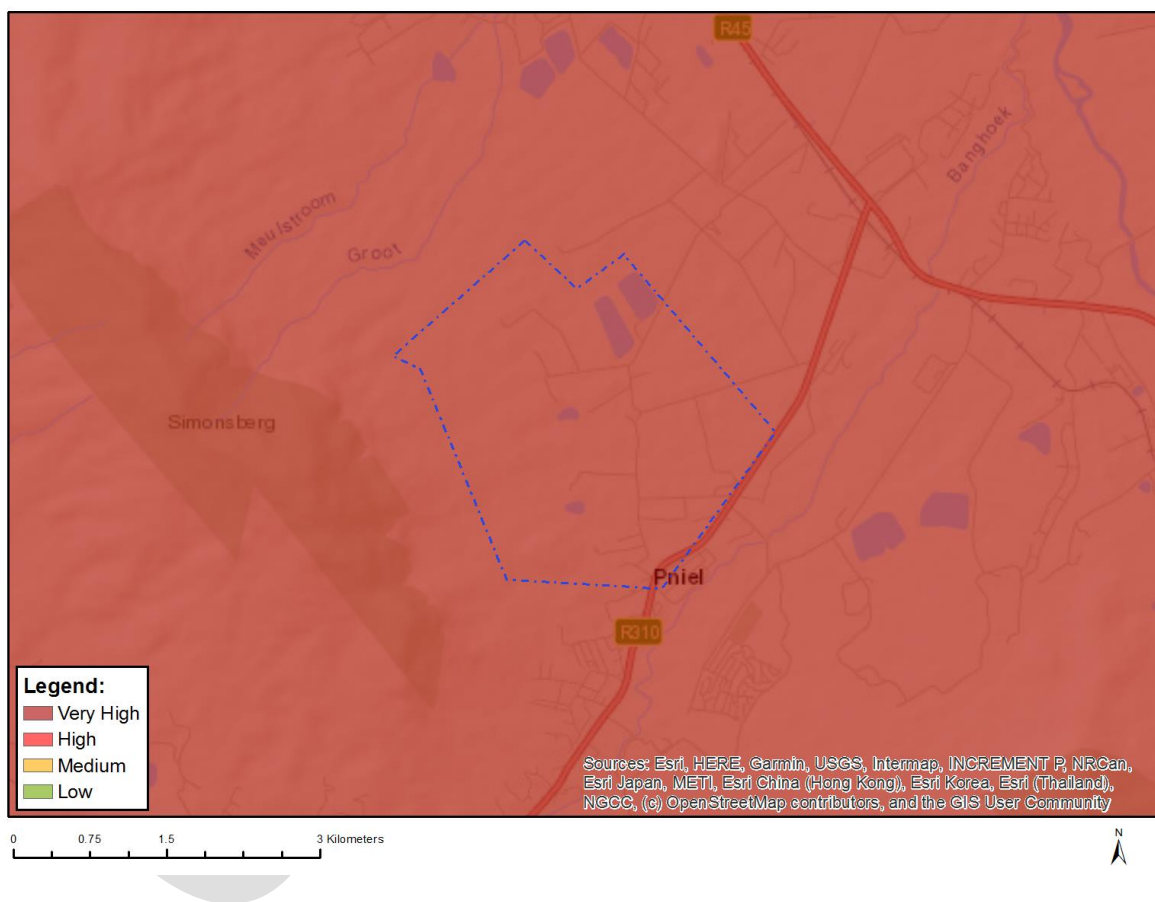
Medium	<i>Psoralea fascicularis</i>
Medium	<i>Liparia splendens</i> subsp. <i>splendens</i>
Medium	<i>Indigofera psoraloides</i>
Medium	<i>Aspalathus aculeata</i>
Medium	<i>Aspalathus araneosa</i>
Medium	<i>Aspalathus divaricata</i> subsp. <i>gracilior</i>
Medium	<i>Aspalathus globosa</i>
Medium	<i>Aspalathus macrantha</i>
Medium	<i>Aspalathus muraltioides</i>
Medium	<i>Aspalathus pinea</i> subsp. <i>caudata</i>
Medium	<i>Otholobium rotundifolium</i>
Medium	<i>Lebeckia grandiflora</i>
Medium	<i>Lebeckia plukenetiana</i>
Medium	<i>Podalyria argentea</i>
Medium	<i>Podalyria cordata</i>
Medium	<i>Podalyria microphylla</i>
Medium	<i>Podalyria sericea</i>
Medium	<i>Leucadendron argenteum</i>
Medium	<i>Leucadendron daphnoides</i>
Medium	<i>Leucadendron lanigerum</i> var. <i>lanigerum</i>
Medium	<i>Leucospermum grandiflorum</i>
Medium	<i>Leucospermum gueinzii</i>
Medium	<i>Leucospermum lineare</i>
Medium	<i>Protea burchellii</i>
Medium	<i>Protea lacticolor</i>
Medium	<i>Protea scorzonerifolia</i>
Medium	<i>Mimetes argenteus</i>
Medium	<i>Serruria kraussii</i>
Medium	<i>Serruria pinnata</i>
Medium	<i>Serruria gracilis</i>
Medium	<i>Euthystachys abbreviata</i>
Medium	Sensitive species 794
Medium	Sensitive species 344
Medium	<i>Pentameris bachmannii</i>
Medium	<i>Galium subvillosum</i> var. <i>subglabrum</i>
Medium	<i>Lobostemon regulariflorus</i>
Medium	<i>Aristea lugens</i>
Medium	<i>Aristea cantharophila</i>
Medium	<i>Klattia flava</i>
Medium	<i>Tritoniopsis elongata</i>
Medium	Sensitive species 631
Medium	Sensitive species 533
Medium	Sensitive species 975
Medium	Sensitive species 1134
Medium	<i>Geissorhiza brehmii</i>
Medium	<i>Geissorhiza monanthos</i>
Medium	<i>Geissorhiza erosa</i>
Medium	<i>Ixia erubescens</i>
Medium	<i>Ixia rouxii</i>
Medium	<i>Ixia sarmentosa</i>
Medium	Sensitive species 77
Medium	Sensitive species 560
Medium	Sensitive species 1253
Medium	Sensitive species 112
Medium	Sensitive species 1140
Medium	Sensitive species 807
Medium	Sensitive species 452
Medium	Sensitive species 567
Medium	Sensitive species 863
Medium	<i>Pauridia pygmaea</i>



Medium	<i>Oxalis strigosa</i>
Medium	<i>Erica doliiformis</i>
Medium	<i>Erica filiformis</i> var. <i>filiformis</i>
Medium	<i>Erica praecox</i>
Medium	<i>Erica abietina</i> subsp. <i>perfoliosa</i>
Medium	<i>Hermannia rugosa</i>
Medium	Sensitive species 222
Medium	Sensitive species 444
Medium	Sensitive species 259
Medium	Sensitive species 478
Medium	Sensitive species 756
Medium	<i>Adenogramma rigida</i>
Medium	<i>Wachendorfia brachyandra</i>
Medium	<i>Hessea cinnamomea</i>
Medium	Sensitive species 847
Medium	<i>Annesorhiza burttii</i>
Medium	Sensitive species 133
Medium	<i>Trianoptiles solitaria</i>
Medium	<i>Ficinia grandiflora</i>
Medium	<i>Anthochortus graminifolius</i>
Medium	<i>Restio duthieae</i>
Medium	<i>Restio papillosus</i>
Medium	<i>Restio saxatilis</i>
Medium	Sensitive species 1277
Medium	Sensitive species 985
Medium	Sensitive species 501
Medium	Sensitive species 1169
Medium	Sensitive species 848
Medium	Sensitive species 120
Medium	Sensitive species 384
Medium	Sensitive species 682
Medium	Sensitive species 373
Medium	<i>Evotella rubiginosa</i>
Medium	<i>Lepidium pinnatum</i>
Medium	<i>Lachnaea uniflora</i>
Medium	<i>Metalasia capitata</i>
Medium	<i>Felicia cymbalarioides</i>
Medium	<i>Zyrphelis leiocarpa</i>
Medium	<i>Senecio verbascifolius</i>
Medium	<i>Arctotis angustifolia</i>
Medium	Sensitive species 1042
Medium	<i>Osmitopsis nana</i>
Medium	<i>Osmitopsis pinnatifida</i> subsp. <i>angustifolia</i>
Medium	<i>Agathosma propinqua</i>
Medium	<i>Agathosma stenosepala</i>
Medium	<i>Cliffortia marginata</i>
Medium	<i>Cliffortia phillipsii</i>
Medium	<i>Muraltia alba</i>
Medium	<i>Muraltia decipiens</i>
Medium	<i>Muraltia macropetala</i>
Medium	Sensitive species 811
Medium	Sensitive species 262
Medium	Sensitive species 616
Medium	<i>Phylica dioica</i>
Medium	<i>Phylica strigulosa</i>
Medium	<i>Phylica thunbergiana</i>
Medium	<i>Orthochilus litoralis</i>
Medium	<i>Codonorhiza azurea</i>
Medium	<i>Skiatophytum skiatophytoides</i>
Medium	<i>Lampranthus glaucus</i>

Medium	Xiphotheca reflexa
Medium	Psoralea alata
Medium	Aspalathus lebeckioides
Medium	Protea rupicola
Medium	Ophioglossum bergianum
Medium	Sensitive species 599
Medium	Elegia squamosa
Medium	Restio paludosus
Medium	Restio rigoratus
Medium	Pachites bodkinii
Medium	Lachnaea capitata
Medium	Lachnaea grandiflora
Medium	Sensitive species 1225

## MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

### Sensitivity Features:

Sensitivity	Feature(s)
Very High	Critical biodiversity area 1
Very High	Critical biodiversity area 2
Very High	Ecological support area 1
Very High	Ecological support area 2

Very High	Hottentots-Holland Mountain Catchment Area
Very High	Critically endangered ecosystem
Very High	Vulnerable ecosystem
Very High	Strategic Water Source Areas

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