
Appendix F: Site Sensitivity Verification Report

Our Ref: GE39134

Department of Environmental Affairs and Development Planning
Directorate: Waste Management
6th Floor, Property Centre
1 Dorp Street
Cape Town
8000

22 May 2024

Dear Mr Eugene Pienaar

**PEARLY BEACH WASTE DISPOSAL FACILITY WASTE MANAGEMENT LICENSE VARIATION
APPLICATION: SITE SENSITIVITY VERIFICATION REPORT**

1 INTRODUCTION AND PROJECT BACKGROUND

GIBB Environmental (Pty) Ltd (GIBB) was appointed by the Overstrand Local Municipality (OLM) as independent Environmental Assessment Practitioner (EAP) to undertake an application for the surrendering of the Waste Management License (WML) for the Pearly Beach Waste Disposal Facility (WDF). The WDF is located on Portion 4 of Farm Kleyn Hagel Kraal No. 321, Pearly Beach, Overstrand Local Municipality, Western Cape Province. The Pearly Beach WDF is a historic site established in 1989, operated by the OLM, that was used mostly for the disposal of building rubble and garden waste. The site received a WML for closure in September 2014 (Ref No.: 19/2/5/1/E2/28/WL0048/14). A Variation WML for closure was issued for the site in May 2019 to extend the validity of the WML (Ref No.: 19/2/5/4/E2/29/WL0021/19).

After the site received a WML for closure in 2014, an Environmental Authorisation (EA) was issued for the site (dated November 2014, Ref No.: 16/3/1/1/E2/29/2083/14) for the development of a new land-use, the Eluxolweni Waste Water Treatment Works (WWTW) on the same property. Construction of the WWTW commenced in February 2015 and was completed in July 2015. It is during the construction of the WWTW that the entire waste body of the Pearly Beach WDF was removed and disposed of at the Gansbaai landfill site. Since the entire waste body of the Pearly Beach WDF was removed during the construction and development of the WWTW, the OLM identified the need to commence a process for the surrendering the WML as the closure activities approved in terms of the WML were no longer applicable. An application is therefore being made for the variation (surrendering) of the WML.

It was requested by DEADP that the site of the Pearly Beach WDF be screened for any environmental sensitivity as per the National Web based Environmental Screening Tool and that the current use of the site and its environmental sensitivity as identified by the Screening Tool be verified by means of a Site Sensitivity Verification Report (SSVR). This document serves as the SSVR for the Pearly Beach WDF site and includes a motivation regarding the site verified sensitivity.

2 SITE DESCRIPTION AND ASSESSMENT

2.1 Locality and Description

The site is located north of Pearly Beach in the OLM, in the Western Cape (refer to **Figure 1** below). Pertinent details of the site are summarised in the table below.

Table 1: Summary of Site Details

Location	Portion 4 of Farm Kleyn Hagel, Pearly Beach, Western Cape Province
Geographical coordinates	34° 39'1.38"S, 19° 29' 36.97"E
Site size	2 Ha
Historical land use	Waste Disposal Facility
Current land use	Eluxolweni WWTW
Ownership	Overstrand Local Municipality
Current zoning	Undetermined Zone (UZ) Utility Zone (UT)
Surrounding land use	North: Vacant, open space
	South: Vacant, open space
	East: Vacant, open space
	West: Vacant open space, residential development (300m) and sports field

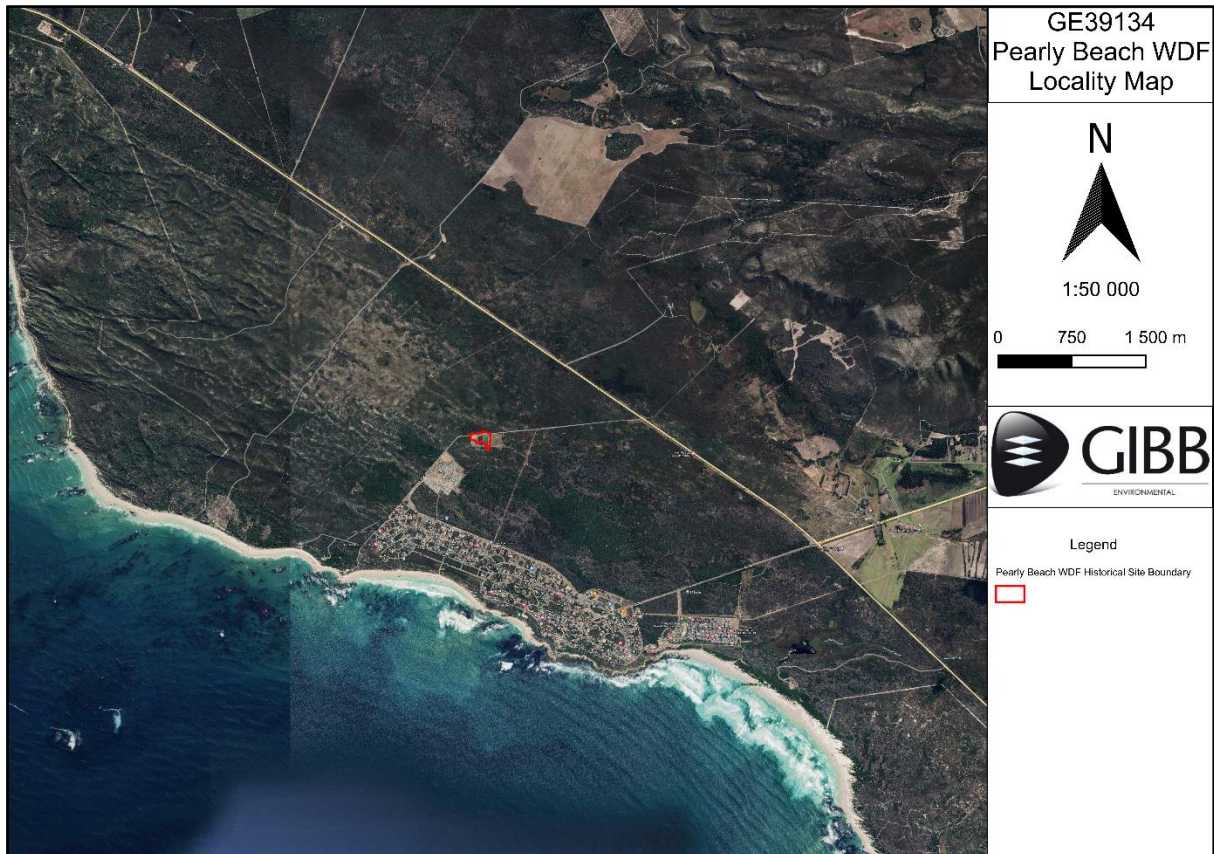


Figure 1: Pearly Beach WDF Locality Map (GIBB, 2024)

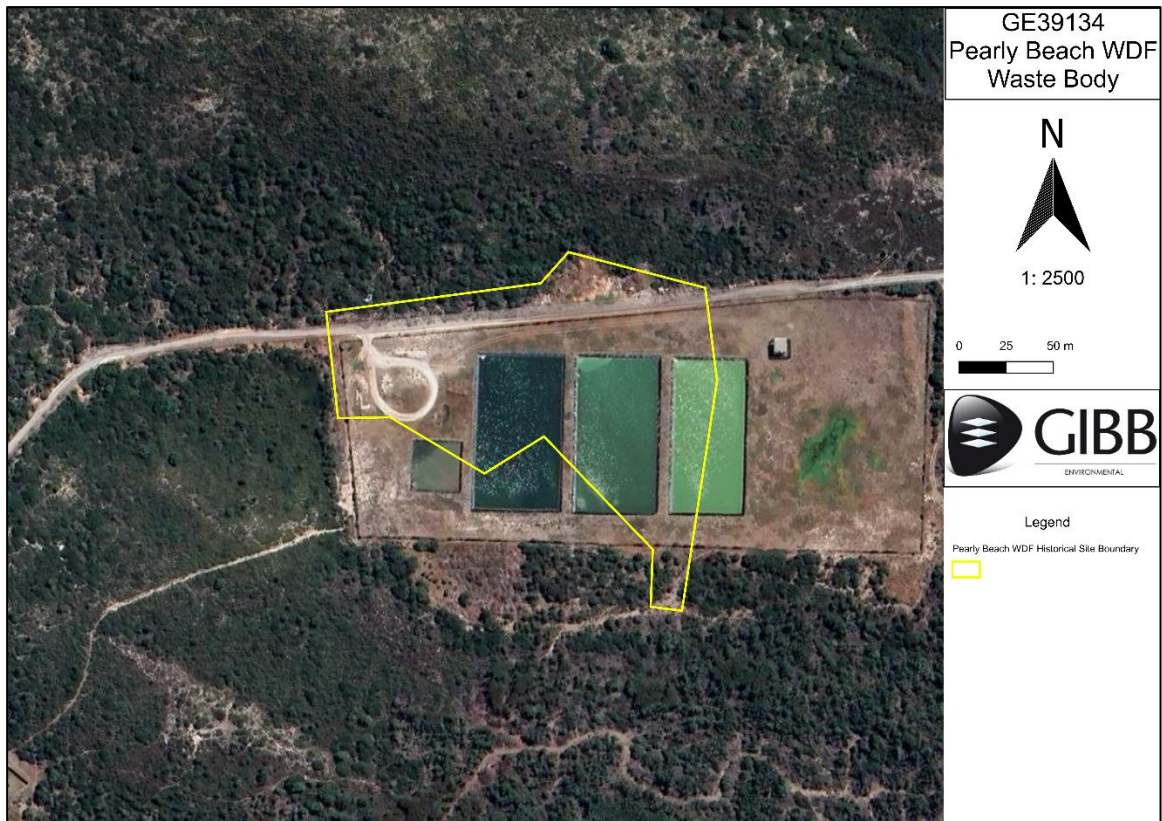


Figure 2: Pearly Beach WDF Waste Body (GIBB, 2024)

2.2 Conditions on site and Photographs

Photographs taken during the fieldwork are provided below to indicate the conditions on site.

Photographs prior to the Waste Removal Process:



A general view of the Pearly Beach WDF in January 2015 prior to the commencement of the construction of the Eluxolweni WWTW.



A general view of the Pearly Beach WDF in January 2015 prior to the commencement of the construction of the Eluxolweni WWTW.

Photographs after the Waste Removal Process and of current end land-use:



A general view of the current land-use (Eluxolweni WWTW) looking towards the south-east.



A general view of the current land-use (Eluxolweni WWTW) looking towards the east.

2.3 Sensitivity of Receiving Environment

The sensitivity of the site and surrounding area has been considered using information obtained from the Department of Forestry, Fisheries and the Environment (DFFE) online screening tool, as well as mapping on the CapeFarmMapper. Images of the key features are shown in Figure 3, Figure 4 and Figure 6. Key points are:

- **Vegetation.** Most of the site falls within the Overberg Dune Strandveld which is considered Least Threatened. The south-eastern portion of the site falls within the Agulhas Limestone Fynbos which is considered Vulnerable. Despite the mapped designation, it is noted that the site was previously disturbed by the waste disposal activities and does not support such vegetation.
- **Rivers and wetlands.** The closest wetland to the site is located approximately 2.5km north-east of the site.
- **Conservation areas.** The closest protected area is the Uilkraalsmond Nature Reserve located approximately 2.44km west of the site.
- **CBA and ESA:** A small portion at the western and eastern boundary of the site falls within a Critical Biodiversity Area (CBA) (Terrestrial). Considering the disturbed nature of the site, it is unlikely to be worthy of the classification of a CBA.

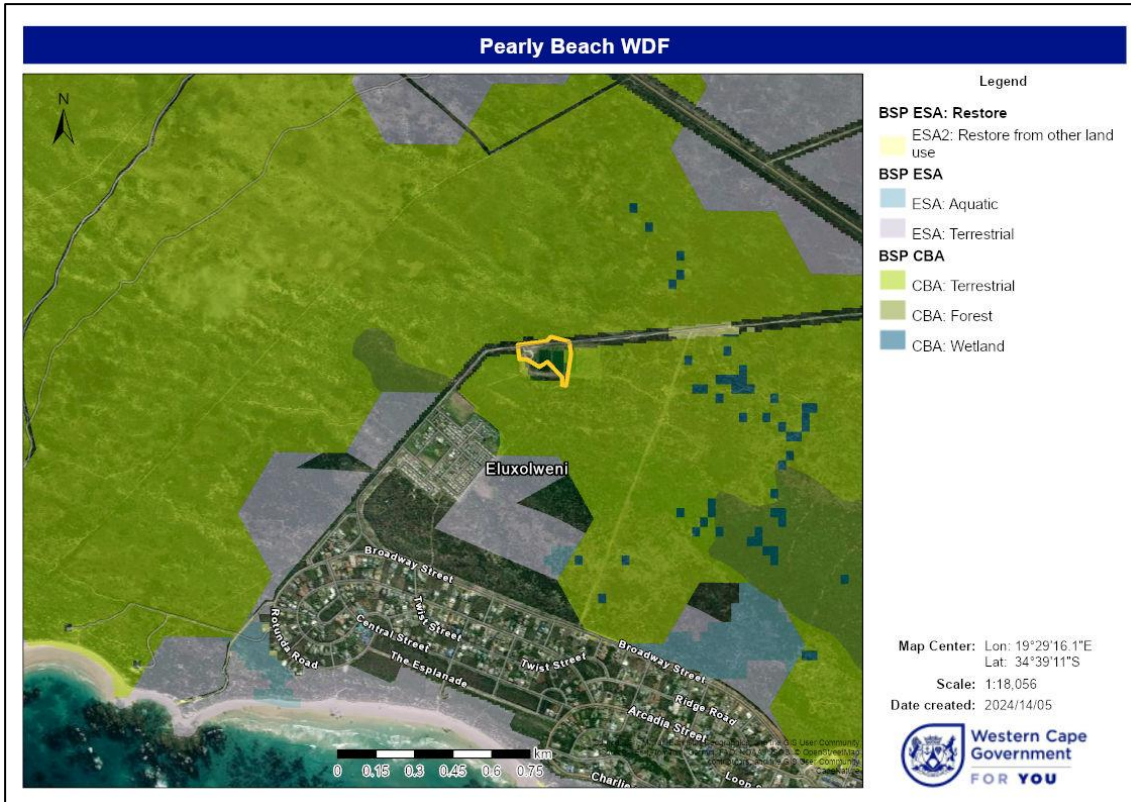


Figure 3: Pearly Beach WDF (yellow outline) showing protected areas, CBAs and ESAs (mapped with CapeFarmMapper).

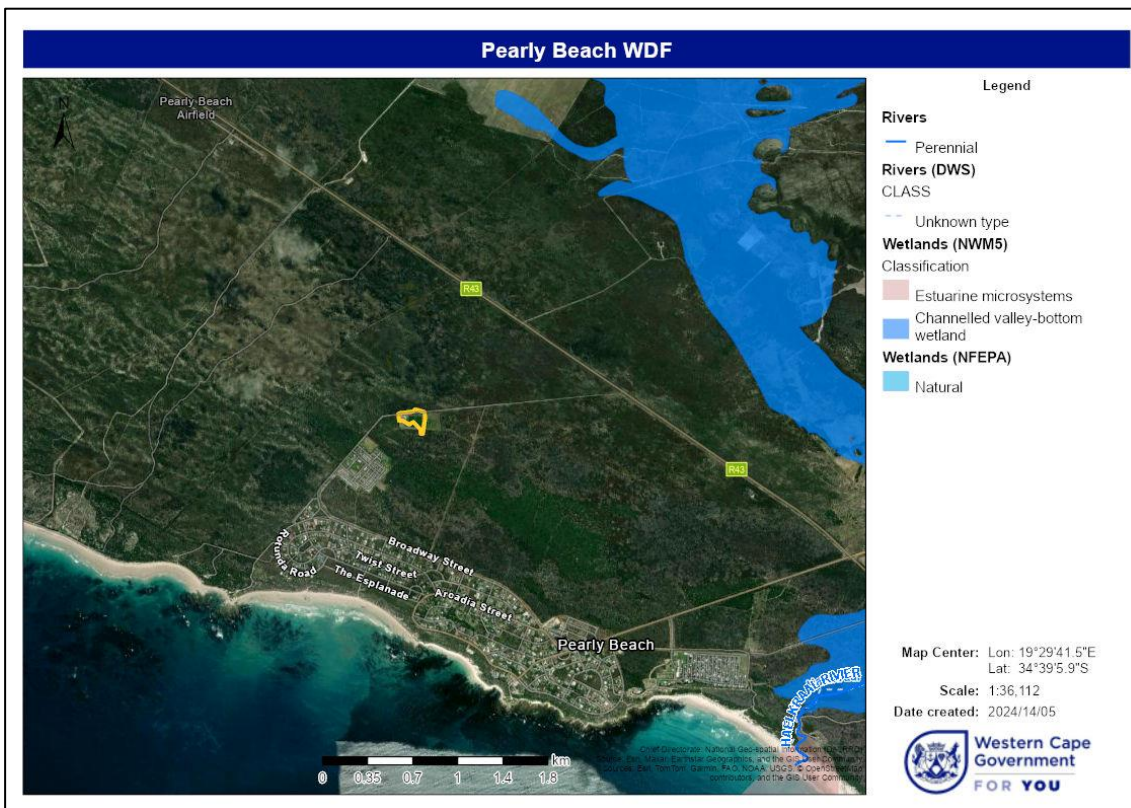


Figure 4: Pearly Beach WDF (yellow outline) showing surface water features (mapped with CapeFarmMapper).

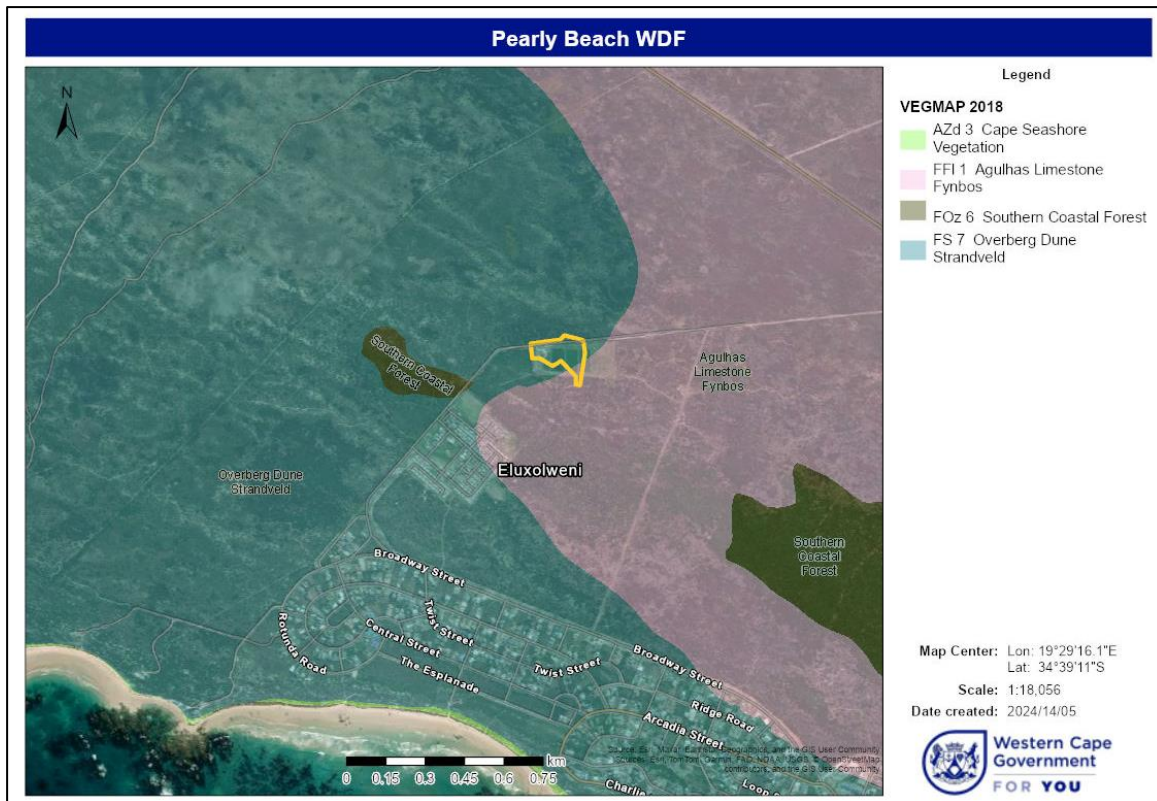


Figure 5: Pearly Beach WDF (yellow outline) showing vegetation types (mapped with CapeFarmMapper).

3 RESULTS OF THE SENSITIVITY INDICATED BY THE SCREENING TOOL REPORT AND VERIFIED SENSITIVITY

The table below (Table 2) provides a breakdown of sensitivity ranking for certain themes on the Department of Forestry, Fisheries and the Environment (DFFE) screening tool. A comment regarding the verified site sensitivity is provided based on the experience of the Environmental Assessment Practitioner (EAP). A copy of the screening tool report is attached as **Appendix B**.

Table 2: Environmental Sensitivity of the Pearly Beach WDF, as defined by the DFFE screening tool

Theme	Sensitivity as per Screening Tool Report	Comment regarding sensitivity
Agriculture	Medium	The site has a medium sensitivity rating with regards to the agriculture theme using the DFFE Screening Tool. The site was not used for agricultural purposes and the proposed new land use (WWTW) will not extend the disturbed footprint of the site. The site has been developed and historically used as a WDF and is disturbed, unsuitable for future agriculture use due to non-arable land. The proposed new land use will not result in a reduction in agricultural activities in the area. Therefore, the rating of the agricultural theme for this site is low.
Animal Species	High	The site is rated as having a high sensitivity with regards to the animal species theme using the DFFE Screening Tool. However, the site is disturbed and natural habitats have been altered due to historic landfilling operations which required land clearing and resulted in land degradation. Therefore, the rating of the animal species theme for this site is low.

Theme	Sensitivity as per Screening Tool Report	Comment regarding sensitivity
Aquatic Biodiversity	Very High	The site has a very high sensitivity rating with regards to the aquatic biodiversity theme using the DFFE Screening Tool. However, no water courses or water bodies were identified on site. The closest wetland to the site is located approximately 2.5km north-east of the site. The site is furthermore disturbed and natural habitats have been altered due to historic landfilling operations which required land clearing and resulted in land degradation. Therefore, the revised rating of the aquatic biodiversity theme for this site is low.
Archaeological and Cultural Heritage Theme	Low	The DFFE Screening Tool provide a low sensitivity for the archaeological and cultural heritage theme. The site historically operated as a WDF and has been heavily disturbed due to earthworks and excavation activities. Any archaeological or heritage resources previously located at the site would have been disturbed by the operation of the site. Therefore, the low sensitivity as designated by the Screening Tool is agreed with.
Civil Aviation	High	The entire site has a high sensitivity in terms of the civil aviation theme since it is within 8 km of other civil aviation aerodrome. It is not expected that the proposed new land use (WWTW) with have any material impact on civil aviation and the use of the air space above the site. Therefore, the revised rating of the civil aviation theme for this site is low.
Defence Theme	Low	The entire site has a low sensitivity for the defence theme. The site is not located close to any defence or military facilities of the South African National Defence Force (SANDF). Therefore, the low sensitivity as designated by the Screening Tool is agreed with.
Palaeontology	Very high	The site has a very high sensitivity rating with regards to the palaeontological theme using the DFFE Screening Tool. The South African Heritage Resources Information System (SAHRIS) in addition indicates that the site has a very high palaeontological sensitivity and that a field assessment and protocol for finds are required (refer to Appendix A). The site historically operated as a WDF and has been heavily disturbed due to earthworks and excavation activities. Any palaeontological resources previously located at the site would have been disturbed by the operation of the site. The very high sensitivity as per the Screening Tool is not agreed with. Therefore, the revised rating of the palaeontology theme for this site is low.
Plant Species	Medium	The site is rated having a medium sensitivity with regards to the plant species theme using the DFFE Screening Tool. However, the site is highly disturbed due to historic landfilling operations which required land clearing. No natural endemic vegetation is present on the site. Therefore, the revised rating of the plant species theme for this site is low.
Terrestrial Biodiversity Theme	Very High	The site has a very high sensitivity rating with regards to the terrestrial biodiversity theme using the DFFE Screening Tool. The site historically operated as a WDF and has been heavily disturbed due to earthworks and excavation activities with no natural vegetation cover. Therefore, the revised rating of the terrestrial biodiversity theme for this site is low.

4 REFERENCES

Department of Environmental Affairs. (2020). Procedures for the Assessment and Minimum Criteria for Reporting on Identified Environmental themes in Terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act, 1198, when Applying for Environmental Authorisation.

South African Heritage Resource Agency. *PalaeoSensitivity Map*. Retrieved from South African Heritage Resource Information System: <https://sahris.sahra.org.za/map/palaeo>

Appendix A – PalaeoSensitivity Map of the Pearly Beach WDF Site (Source: SAHRIS, 2024)



Colour	Sensitivity	Required Action
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	LOW	no palaeontological studies are required however a protocol for finds is required
GREY	INSIGNIFICANT/ZERO	no palaeontological studies are required
WHITE/CLEAR	UNKNOWN	these areas will require a minimum of a desktop study. As more information comes to light, SAHRA will continue to populate the map.

Appendix B – DFEE Screening Tool Report

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

EIA Reference number: 19/2/5/4/E2/29/WL0094/24

Project name: Pearly Beach WDF

Project title: Pearly Beach WDF: WML Variation

Date screening report generated: 22/05/2024 15:18:32

Applicant: Overstrand Local Municipality

Compiler: GIBB Environmental

Compiler signature:
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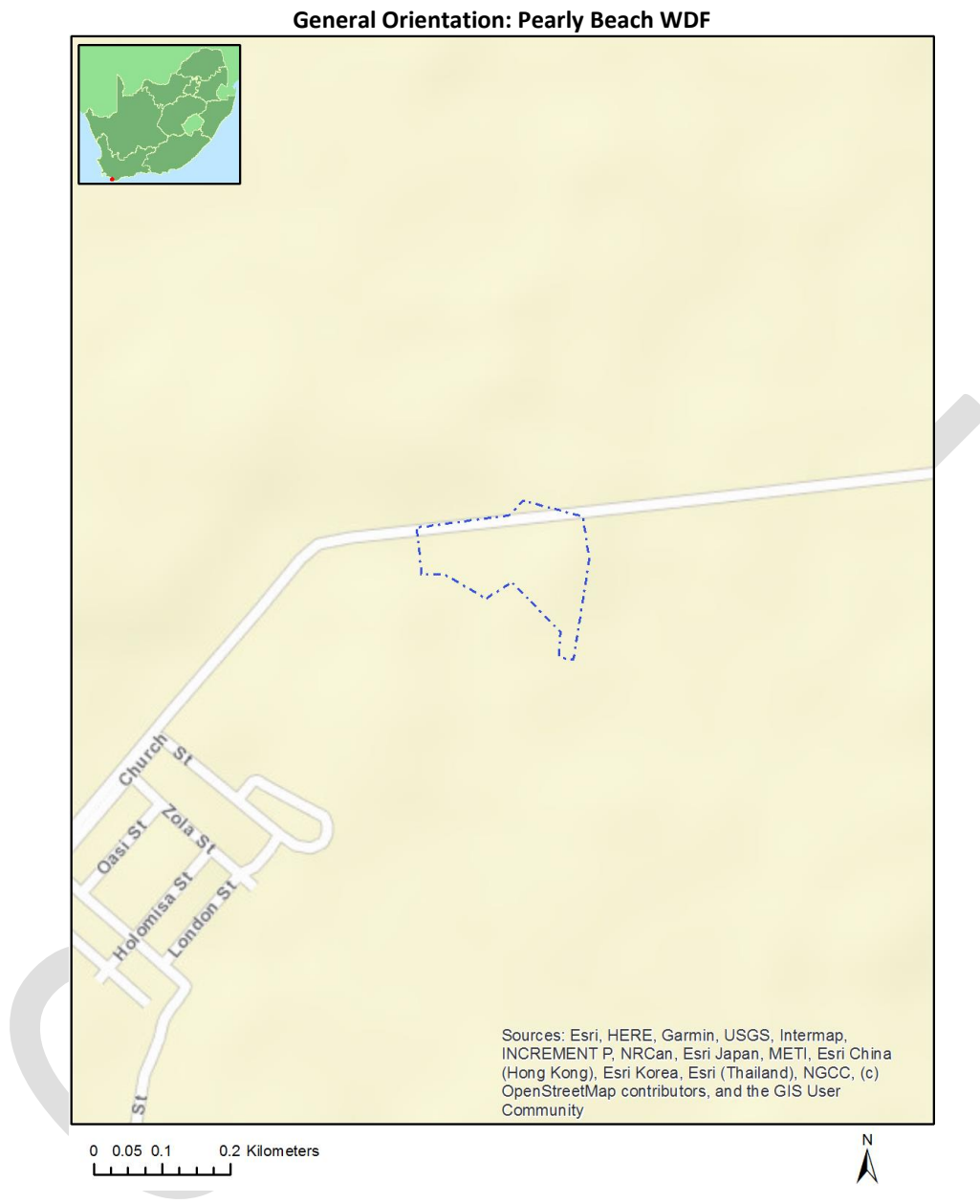
Application Category: Services|Water services|Treatment and Waste Water

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Proposed Project Location

Orientation map 1: General location



Map of proposed site and relevant area(s)

Unable to obtain map image.

Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	LANG GELEGEN	227	0	34°38'59.02S	19°29'5.86E	Farm
2	KLEYN HAGEL KRAAL	321	0	34°39'48.11S	19°32'47.4E	Farm
3	LANG GELEGEN	227	0	34°38'23.61S	19°30'42.6E	Farm Portion
4	KLEYN HAGEL KRAAL	321	0	34°39'34.93S	19°32'47.3E	Farm Portion
5	LANG GELEGEN	227	5	34°38'50.9S	19°29'19.91E	Farm Portion
6	KLEYN HAGEL KRAAL	321	4	34°39'5.39S	19°29'29.36E	Farm Portion
7	KLEYN HAGEL KRAAL	321	33	34°39'4.52S	19°29'31.51E	Farm Portion

Development footprint¹ 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

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	16/3/3/1/E2/29/1021/20	Solar PV	Approved	0.8

¹ "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.

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:

Services | Water services | Treatment and Waste Water.

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.

No intersection with any development zones found.

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 known impacts associated with the proposed development, 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.

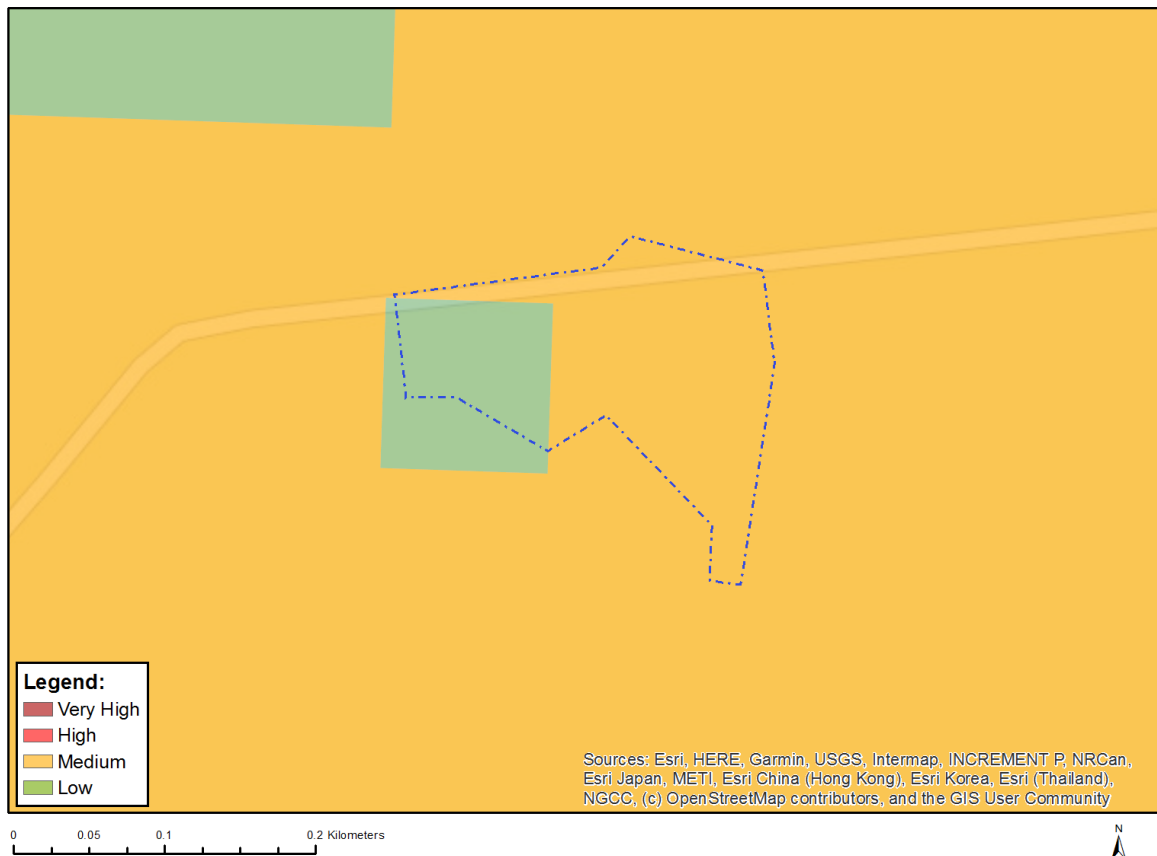
No	Specialist	Assessment Protocol
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	assessment	
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Agriculture Assessment Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Terrestrial Biodiversity Assessment Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Aquatic Biodiversity Assessment Protocols.pdf
6	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
7	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
8	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
9	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
10	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
11	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Plant Species Assessment Protocols.pdf
12	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Animal Species Assessment Protocols.pdf

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)
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
Medium	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 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
High	Aves-Circus ranivorus
High	Aves-Hydroprogne caspia
Medium	Aves-Afrotis afra
Medium	Aves-Sarothrura affinis
Medium	Aves-Podica senegalensis
Medium	Aves-Neotis denhami
Medium	Aves-Turnix hottentottus
Medium	Reptilia-Bitis armata
Medium	Invertebrate-Brinckiella aptera
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	SWSA (SW) _Boland

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

Unable to obtain map image.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

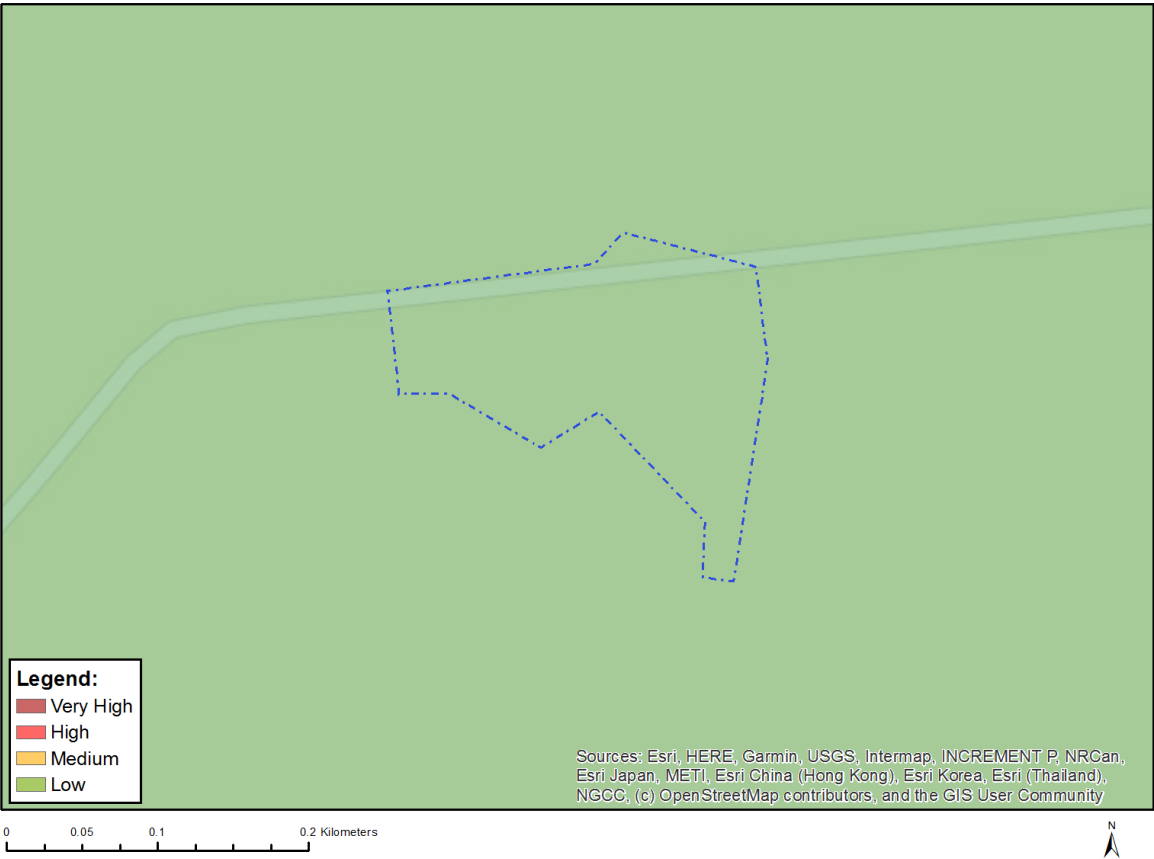


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome
High	Dangerous and restricted airspace as demarcated

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

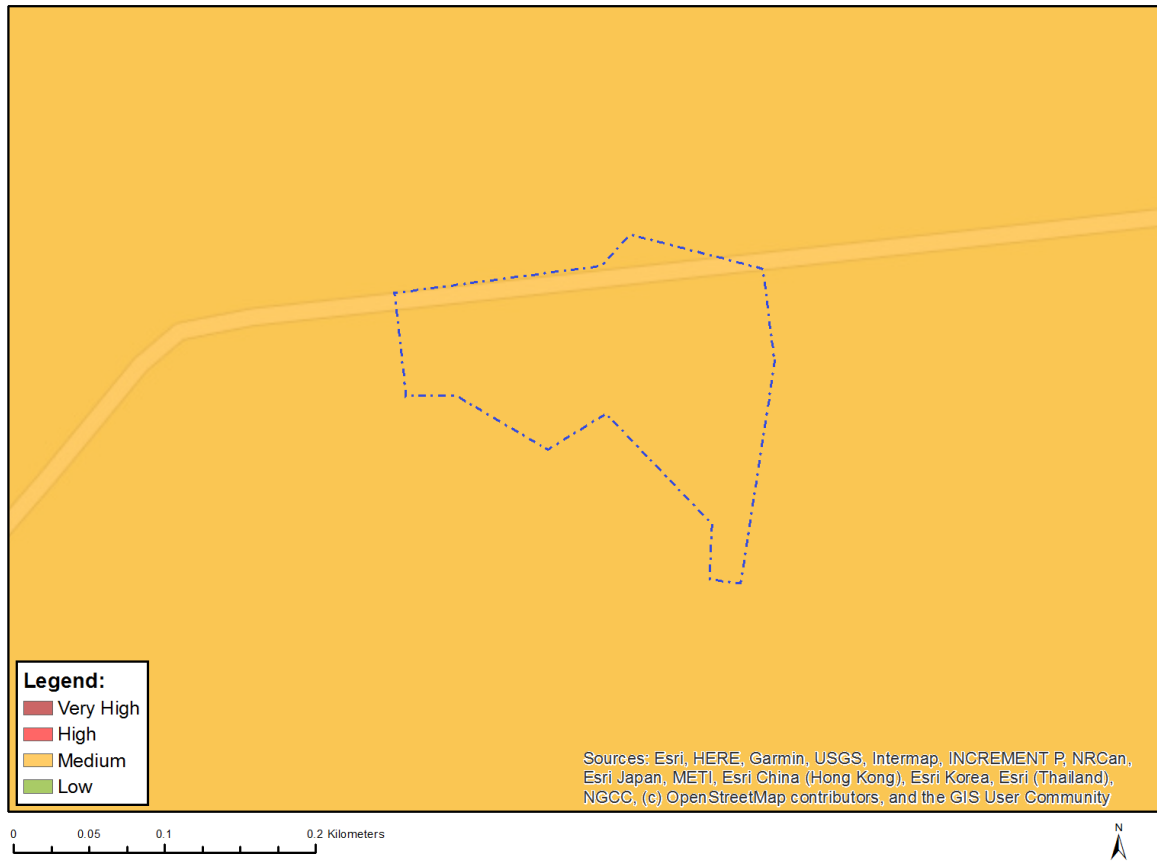


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Features with a Very High 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 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)
Medium	Lampranthus caudatus
Medium	Lampranthus ceriseus
Medium	Lampranthus fergusoniae
Medium	Lampranthus foliosus
Medium	Lampranthus stenus
Medium	Lampranthus tenuifolius
Medium	Disphyma dunsdonii
Medium	Erepsia dunensis
Medium	Amphithalea sericea
Medium	Liparia angustifolia
Medium	Aspalathus globulosa
Medium	Aspalathus pinguis subsp. australis
Medium	Lebeckia gracilis

Medium	<i>Colpoon speciosum</i>
Medium	<i>Leucadendron coniferum</i>
Medium	<i>Leucadendron laxum</i>
Medium	<i>Leucadendron linifolium</i>
Medium	<i>Leucadendron modestum</i>
Medium	<i>Leucospermum hypophyllocarpodendron</i> subsp. <i>hypophyllocarpodendron</i>
Medium	<i>Leucospermum patersonii</i>
Medium	<i>Leucospermum prostratum</i>
Medium	<i>Mimetes saxatilis</i>
Medium	<i>Spatalla ericoides</i>
Medium	<i>Selago diffusa</i>
Medium	Sensitive species 137
Medium	Sensitive species 247
Medium	Sensitive species 340
Medium	<i>Erica aghillana</i> var. <i>aghillana</i>
Medium	<i>Erica gracilipes</i>
Medium	<i>Erica irregularis</i>
Medium	<i>Erica melanacme</i>
Medium	<i>Erica riparia</i>
Medium	<i>Erica interrupta</i>
Medium	<i>Erica innovans</i>
Medium	<i>Erica calcicola</i>
Medium	<i>Isolepis venustula</i>
Medium	<i>Thamnochortus pellucidus</i>
Medium	<i>Thamnochortus pluristachyus</i>
Medium	<i>Staberoha multispicula</i>
Medium	<i>Elegia fenestrata</i>
Medium	<i>Elegia prominens</i>
Medium	<i>Restio sabulosus</i>
Medium	<i>Restio pulcher</i>
Medium	<i>Heliophila linearis</i> var. <i>reticulata</i>
Medium	<i>Gnidia spicata</i>
Medium	<i>Passerina paludosa</i>
Medium	<i>Metalasia umbelliformis</i>
Medium	<i>Poecilolepis maritima</i>
Medium	<i>Cotula eckloniana</i>
Medium	<i>Osteospermum australe</i>
Medium	<i>Amellus asteroides</i> subsp. <i>mollis</i>
Medium	<i>Amellus capensis</i>
Medium	<i>Diosma arenicola</i>
Medium	<i>Diosma awilana</i>
Medium	<i>Diosma demissa</i>
Medium	<i>Diosma haelkraalensis</i>
Medium	<i>Diosma parvula</i>
Medium	<i>Diosma subulata</i>
Medium	<i>Agathosma abrupta</i>
Medium	<i>Agathosma</i> sp. nov. (Bean 3088 BOL)
Medium	<i>Zygophyllum fuscatum</i>
Medium	<i>Cliffortia ericifolia</i>
Medium	<i>Cliffortia longifolia</i>
Medium	<i>Limonium anthericoides</i>
Medium	<i>Muraltia calycina</i>
Medium	<i>Muraltia lewisiae</i>
Medium	<i>Muraltia mitior</i>
Medium	<i>Polygala dasyphylla</i>
Medium	Sensitive species 913
Medium	<i>Phylica amoena</i>
Medium	<i>Phylica floribunda</i>
Medium	<i>Phylica incurvata</i>
Medium	<i>Skiatophytum skiatophytoides</i>

Medium	Lampranthus debilis
Medium	Xiphotheca reflexa
Medium	Aspalathus tylodes
Medium	Sensitive species 800
Medium	Sensitive species 599
Medium	Elegia verreauxii
Medium	Sensitive species 500
Medium	Sensitive species 53
Medium	Lachnaea grandiflora

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	CBA 1: Terrestrial
Very High	SWSA (SW) Boland
Very High	SANParks (Buffer) Agulhas National Park
Very High	CR_Agulhas Limestone Fynbos
Very High	EN_Overberg Dune Strandveld