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

EIA Reference number:

Project name: Block 1 Oil and Gas Exploration

Project title: Block 1 Oil and Gas Exploration

Date screening report generated: 12/03/2021 16:50:48

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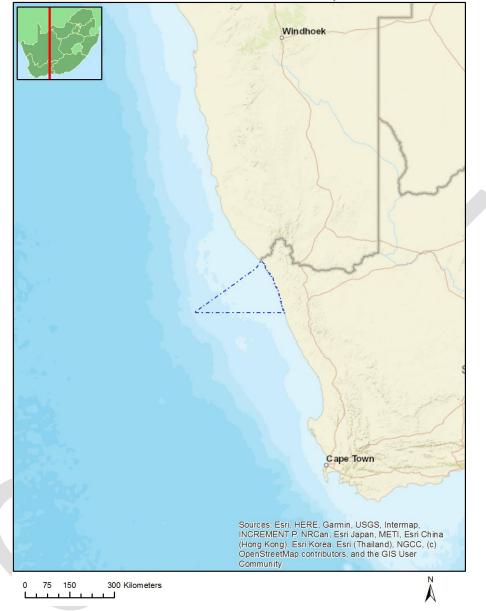
Application Category: Mining | Exploration Right | Gas or Oil Marine

Table of Contents

Proposed Project Location
Orientation map 1: General location3
Map of proposed site and relevant area(s)4
Cadastral details of the proposed site4
Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area6
Environmental Management Frameworks relevant to the application
Environmental screening results and assessment outcomes
Relevant development incentives, restrictions, exclusions or prohibitions
Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones
Proposed Development Area Environmental Sensitivity8
Specialist assessments identified9
Results of the environmental sensitivity of the proposed area11
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY
MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY
MAP OF RELATIVE DEFENCE THEME SENSITIVITY16
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY
MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

Proposed Project Location

Orientation map 1: General location



General Orientation: Block 1 Oil and Gas Exploration





Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	PORT NOLLOTH	142	0	29°15'24.94S	16°52'6.35E	Erven
2	PORT NOLLOTH	144	0	29°15'26.13S	16°52'6.69E	Erven
3	PORT NOLLOTH 143 0		0	29°15'25.54S	16°52'6.52E	Erven
4	PORT NOLLOTH 147 0		0	29°15'27.91S	16°52'7.22E	Erven
5	PORT NOLLOTH	141	0	29°15'24.35S	16°52'6.18E	Erven
6	PORT NOLLOTH	145	0	29°15'26.72S	16°52'6.86E	Erven
7	PORT NOLLOTH	148	0	29°17'7.42S	16°52'45E	Erven
8	PORT NOLLOTH	146	0	29°15'27.32S	16°52'7.04E	Erven
9	PORT NOLLOTH	286	0	29°15'42.84S	16°52'11.41E	Erven
10	PORT NOLLOTH	285	0	29°15'46.62S	16°52'11.03E	Erven
11	PORT NOLLOTH	393	0	29°15'43.71S	16°52'22.98E	Erven
12	PORT NOLLOTH	516	0	29°15'14.63S	16°53'31.2E	Erven
13	PORT NOLLOTH	516	0	29°14'36.26S	16°51'48.16E	Erven
14	PORT NOLLOTH	516	0	29°13'59.91S	16°51'13.86E	Erven
15	PORT NOLLOTH	602	0	29°14'42.76S	16°52'0.93E	Erven
16	PORT NOLLOTH	516	0	29°15'5.85S	16°52'4.53E	Erven
17	PORT NOLLOTH	516	0	29°15'21.13S	16°52'4.86E	Erven
18	PORT NOLLOTH	1112	0	29°17'9.14S	16°52'43.49E	Erven
19	PORT NOLLOTH	1117	0	29°17'9.17S	16°52'42.22E	Erven
20	PORT NOLLOTH	1110	0	29°17'8.35S	16°52'44.71E	Erven
21	PORT NOLLOTH	1100	0	29°17'6.2S	16°52'45.07E	Erven
22	PORT NOLLOTH	1270	0	29°17'10.19S	16°52'44.25E	Erven
23	PORT NOLLOTH	1098	0	29°16'54.46S	16°52'48.7E	Erven
24	PORT NOLLOTH	1268	0	29°17'10.24S	16°52'44.86E	Erven
25	PORT NOLLOTH	1272	0	29°17'9.46S	16°52'44.6E	Erven
26	PORT NOLLOTH	1119	0	29°17'10.08S	16°52'43.36E	Erven
27	PORT NOLLOTH	1121	0	29°17'11.08S	16°52'43.73E	Erven
28	PORT NOLLOTH	1271	0	29°17'9.69S	16°52'44.09E	Erven
29	PORT NOLLOTH	1269	0	29°17'10.79S	16°52'44.5E	Erven
30	PORT NOLLOTH	2487	0	29°15'26.34S	16°52'4.44E	Erven

Page 4 of 19

24		4500	0		4 695 2147 005	E
31	PORT NOLLOTH	1566	0	29°16'53.69S	16°52'47.08E	Erven
32	PORT NOLLOTH	2875	0	29°15'56.68S	16°52'10.16E	Erven
33	PORT NOLLOTH	3181	0	29°17'11.9S	16°52'44.52E	Erven
34	PORT NOLLOTH	2486	0	29°15'23.59S	16°52'9.01E	Erven
35	PORT NOLLOTH	2885	0	29°15'23.14S	16°52'5.18E	Erven
36	PORT NOLLOTH	3280	0	29°17'9.62S	16°52'41.43E	Erven
37	PORT NOLLOTH	3290	0	29°15'56.79S	16°52'6.23E	Erven
38	PORT NOLLOTH	3368	0	29°16'19.01S	16°52'31.79E	Erven
39	PORT NOLLOTH	3378	0	29°16'7.91S	16°52'23.69E	Erven
40	PORT NOLLOTH	3380	0	29°16'9.25S	16°52'24.39E	Erven
41	PORT NOLLOTH	3385	0	29°16'13.28S	16°52'25.78E	Erven
42	PORT NOLLOTH	3391	0	29°16'16.99S	16°52'29.31E	Erven
43	PORT NOLLOTH	3392	0	29°16'17.41S	16°52'30.03E	Erven
44	PORT NOLLOTH	3394	0	29°16'18.22S	16°52'31.59E	Erven
45	PORT NOLLOTH	3519	0	29°16'13.06S	16°52'27.57E	Erven
46	PORT NOLLOTH	3180	0	29°17'11.53S	16°52'44.1E	Erven
47	PORT NOLLOTH	3336	0	29°17'10.17S	16°52'41.46E	Erven
48	PORT NOLLOTH	3342	0	29°17'12.41S	16°52'44.57E	Erven
49	PORT NOLLOTH	3287	0	29°14'20.7S	16°51'23.2E	Erven
50	PORT NOLLOTH	3376	0	29°16'6.28S	16°52'22.97E	Erven
51	PORT NOLLOTH	2488	0	29°15'25.3S	16°52'5.01E	Erven
52	PORT NOLLOTH	3375	0	29°16'5.49S	16°52'22.72E	Erven
53	PORT NOLLOTH	3382	0	29°16'11.09S	16°52'24.88E	Erven
54	PORT NOLLOTH	3389	0	29°16'16.02S	16°52'28.08E	Erven
55	PORT NOLLOTH	3311	0	29°17'8.73S	16°52'44.12E	Erven
56	PORT NOLLOTH	3340	0	29°17'10.61S	16°52'43.47E	Erven
57	PORT NOLLOTH	3381	0	29°16'10.31S	16°52'24.77E	Erven
58	PORT NOLLOTH	3387	0	29°16'14.68S	16°52'26.69E	Erven
59	PORT NOLLOTH	3390	0	29°16'16.5S	16°52'28.67E	Erven
60	PORT NOLLOTH	3386	0	29°16'14.03S	16°52'26.23E	Erven
61	PORT NOLLOTH	3515	0	29°16'15.56S	16°52'30.09E	Erven
62	PORT NOLLOTH	3517	0	29°16'14.35S	16°52'28.68E	Erven
63	PORT NOLLOTH	3388	0	29°16'15.27S	16°52'27.25E	Erven
64	PORT NOLLOTH	3488	0	29°16'11.36S	16°52'26.71E	Erven
65	PORT NOLLOTH	3490	0	29°16'9.91S	16°52'26.36E	Erven
66	PORT NOLLOTH	3518	0	29°16'13.73S	16°52'28.06E	Erven
67	PORT NOLLOTH	3915	0	29°15'21.66S	16°52'5.32E	Erven
68	PORT NOLLOTH	2885	0	29°15'20.8S	16°52'5.41E	Erven
69	PORT NOLLOTH	3338	0	29°17'10.54S	16°52'42.57E	Erven
70	PORT NOLLOTH	3379	0	29°16'8.55S	16°52'24.05E	Erven
71	PORT NOLLOTH	3383	0	29°16'11.75S	16°52'25.03E	Erven
72	PORT NOLLOTH	3393	0	29°16'17.85S	16°52'30.79E	Erven
73	PORT NOLLOTH	3489	0	29°16'10.65S	16°52'26.53E	Erven
74	PORT NOLLOTH	3494	0	29°16'12.32S	16°52'27.16E	Erven
75	PORT NOLLOTH	3516	0	29°16'14.92S	16°52'29.37E	Erven
76	PORT NOLLOTH	1113	0	29°17'9.41S	16°52'42.99E	Erven
77	PORT NOLLOTH	1570	0	29°17'9.69S	16°52'42.48E	Erven
78	PORT NOLLOTH	2491	0	29°15'24.07S	16°52'6.95E	Erven
79	PORT NOLLOTH	2881	0	29°15'32.75S	16°52'8.82E	Erven
80	PORT NOLLOTH	2884	0	29°15'29.78S	16°52'7.77E	Erven
81	PORT NOLLOTH	3377	0	29°16'7.03S	16°52'23.26E	Erven
82	PORT NOLLOTH	3384	0	29°16'12.67S	16°52'25.47E	Erven
83	GARIES	174	0	29°20'38.59S	16°55'8.27E	Farm
84	TWEE PAD	176	0	29°27'42.18S	17°0'58.72E	Farm
85	SAND KOP	322	0	29°41'7.15S	17°8'7.81E	Farm
86	OUBEEP	173	0	29°22'52.17S	16°59'1E	Farm
87	PLAAS	155	0	29°17'21.59S	16°57'28.95E	Farm
88		625	0	28°37'30.05S	16°28'12.2E	Farm
89	KLEINZEE	654	0	29°38'12.04S	17°3'16.46E	Farm
90		1	0	28°53'44.69S	16°42'13.64E	Farm
			-			-

Page 5 of 19

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91		175	0	29°32'28.1S	17°0'1.93E	Farm
92		1	9	28°40'10.41S	16°30'48.43E	Farm Portion
93	GARIES	174	0	29°20'36.92S	16°55'5.24E	Farm Portion
94		1	8	28°39'3.16S	16°29'12.4E	Farm Portion
95	SAND KOP	322	0	29°41'9.52S	17°8'8.14E	Farm Portion
96	KLEINZEE	654	0	29°41'38.67S	17°3'59.45E	Farm Portion
97	KLEINZEE	654	1	29°39'49.78S	17°3'9.82E	Farm Portion
98		625	0	28°37'31.27S	16°28'11.17E	Farm Portion
99		1	0	28°53'42.19S	16°42'13.69E	Farm Portion
100	PLAAS	155	0	29°17'23.36S	16°57'26.91E	Farm Portion
101	OUBEEP	173	0	29°22'53.7S	16°58'58.9E	Farm Portion
102		175	0	29°32'30.05S	17°0'5.33E	Farm Portion
103	TWEE PAD	176	0	29°27'44.24S	17°0'57.06E	Farm Portion
104	PORT NOLLOTH	1118	0	29°17'17.56S	16°52'44.19E	Public Place
105	PORT NOLLOTH	1566	0	29°16'53.69S	16°52'47.08E	Public Place

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	14/12/16/3/3/2/624	Solar PV	Approved	24.5

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: **Mining |Exploration Right|Gas or Oil Marine**.

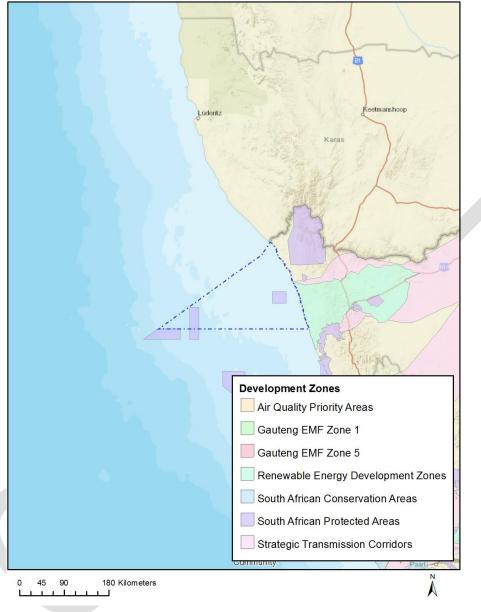
Relevant development incentives, restrictions, exclusions or prohibitions The following development incentives, restrictions, exclusions or prohibitions and their

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

¹ "development footprint", means the area within the site on which the development will take place and incudes 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.

Incenti ve, restricti on or prohibi tion	Implication
Strategic Transmis sion Corridor- Northern corridor	<u>https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GN</u> <u>113 16 February 2018.pdf</u>
Renewab le energy develop ment zones 8- Springbo k	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GN 114 of 16 February 2018.pdf
South African Protecte d Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SAPA D_OR_2020_Q3_Metadata.pdf
South African Conserva tion Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACA D_OR_2020_Q3_Metadata.pdf

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



Project Location: Block 1 Oil and Gas Exploration

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			Х	
Animal Species Theme		Х		
Page 8 of 19				Disclaimer annlies

Aquatic Biodiversity Theme	Х			
Archaeological and Cultural	Х			
Heritage Theme				
Civil Aviation Theme		Х		
Defence Theme				Х
Paleontology Theme	Х			
Plant Species Theme			Х	
Terrestrial Biodiversity Theme	Х			

Specialist assessments identified

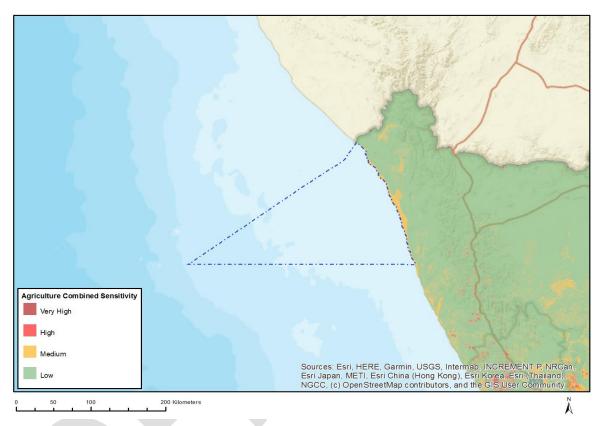
Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment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

Ν	Special	Assessment Protocol
0	ist	Assessment Frotocol
0	assess	
	ment	
1	Landsca	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
1	pe/Visua	/Gazetted_General_Requirement_Assessment_Protocols.pdf
	l Impact	/dazetteu_deneral_kequirement_Assessment_Protocols.put
	Assessm	
2	ent Aquatio	https://www.incoment.com/coment.com/coments/
2	Aquatic Biodiver	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	sity	/Gazetted Aquatic Biodiversity Assessment Protocols.pdf
	Impact	
	Assessm	
3	ent Marine	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
5	Impact	/Gazetted_General_Requirement_Assessment_Protocols.pdf
	Assessm	Vazetted_General_Negulientent_Assessment_Frotocols.pdf
	ent	
4	Avian Impact	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Assessm	/Gazetted_Avifauna_Assessment_Protocols.pdf
	ent	
5	Defense	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Assessm ent	/Gazetted_Defence_Installations_Assessment_Protocols.pdf
6	Noise	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Impact	/Gazetted Noise Impacts Assessment Protocol.pdf
	Assessm	
7	ent Radioact	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	ivity	/Gazetted General Requirement Assessment Protocols.pdf
	Impact	<u>Fourence</u> <u>Concrut nequirement Abseisment</u> <u>Fotocols.put</u>
	Assessm	
8	ent Traffic	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Impact	/Gazetted General Requirement Assessment Protocols.pdf
	Assessm	/ duzetteu_denerur_nequirement_Assessment_riotocois.pur
	ent	
9	Geotech nical	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Assessm	/Gazetted_General_Requirement_Assessment_Protocols.pdf
	to 0 of 10	Disclaimer applies

	ent	
1 0	Climate Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
1 1	Health Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
1 2	Socio- Economi c Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
1 3	Ambient Air Quality Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
1 4	Air Quality Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
1 5	Seismicit Y Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted General Requirement 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.

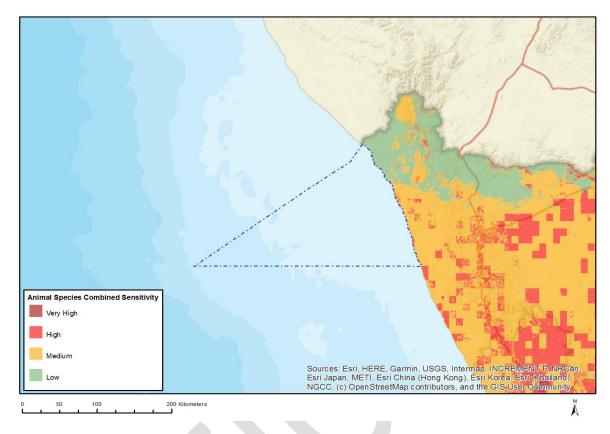


MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

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

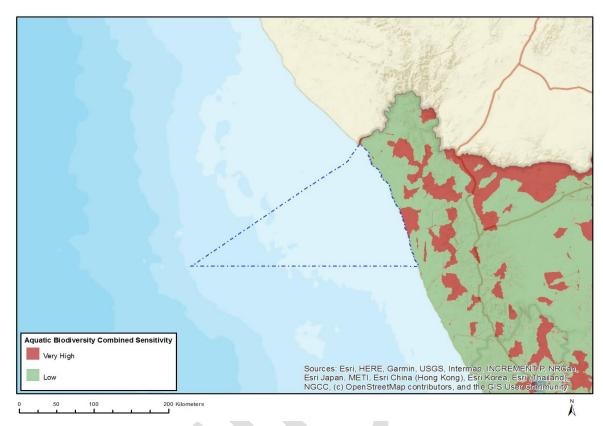
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



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 <u>eiadatarequests@sanbi.org.za</u> 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	Feature(s)
High	Aves-Circus maurus
High	Insecta-Chrysoritis trimeni
Low	Low sensitivity
Medium	Insecta-Chrysoritis trimeni
Medium	Invertebrate-Peringueyacris namaqua
Medium	Invertebrate-Brinckiella mauerbergerorum
Medium	Mammalia-Cryptochloris wintoni
Medium	Aves-Circus maurus

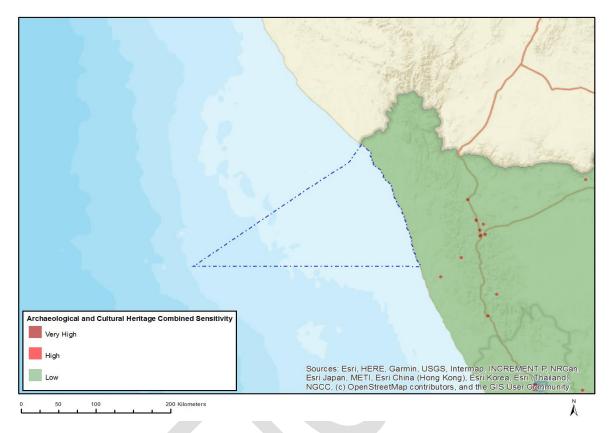


MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands and Estuaries
Very High	Freshwater ecosystem priority area quinary catchments

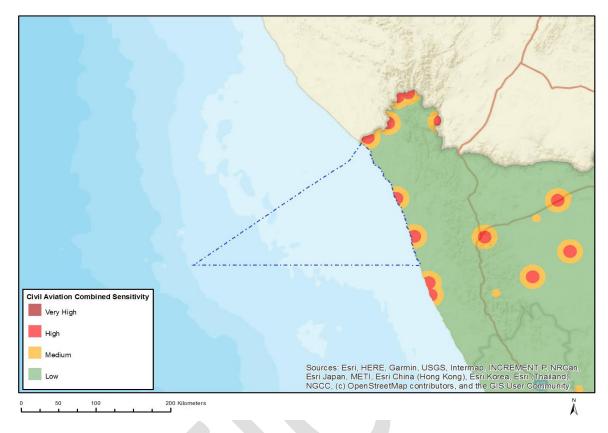
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)	
High	Within 100m of a Grade IIIb Heritage site	
High	Within 50m of a Grade IIIc Heritage site	
Low	Low sensitivity	
Very High	Within 100m of an Ungraded Heritage site	

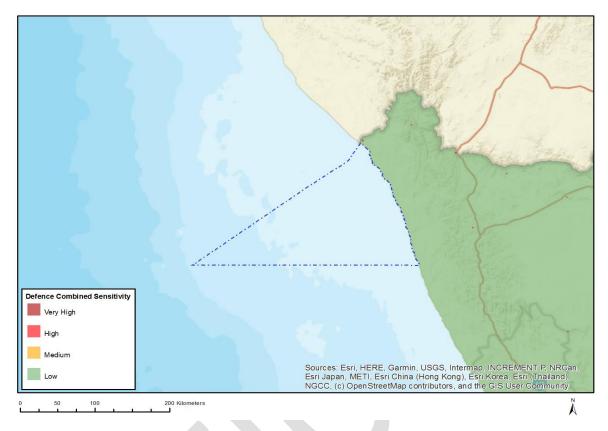
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Х		

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome
High	Dangerous and restricted airspace as demarcated
Low	Low sensitivity
Medium	Between 8 and 15 km of other civil aviation aerodrome

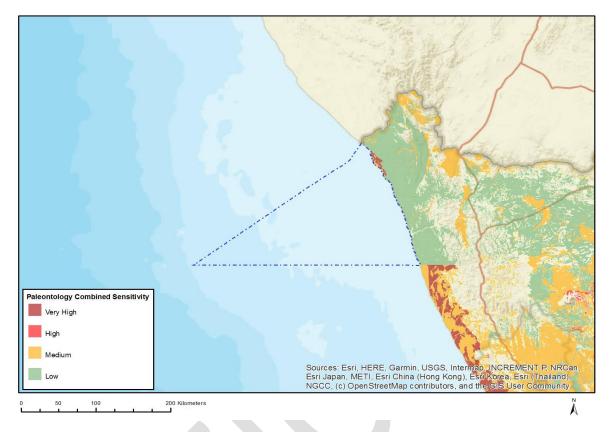
MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity	Feature(s)
Low	Low Sensitivity

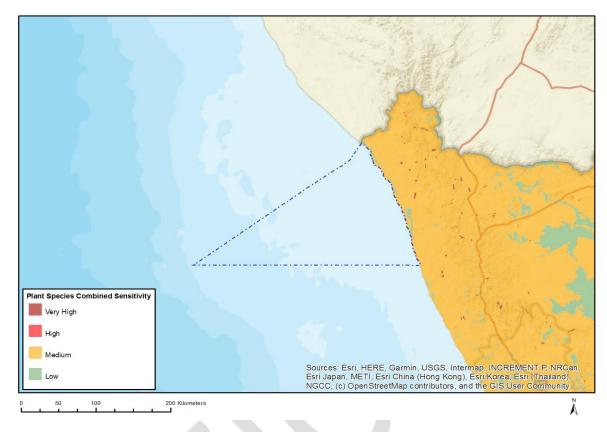
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Low	Features with a Low paleontological sensitivity
Medium	Features with a Medium paleontological sensitivity
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 <u>eiadatarequests@sanbi.org.za</u> 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
		Х	

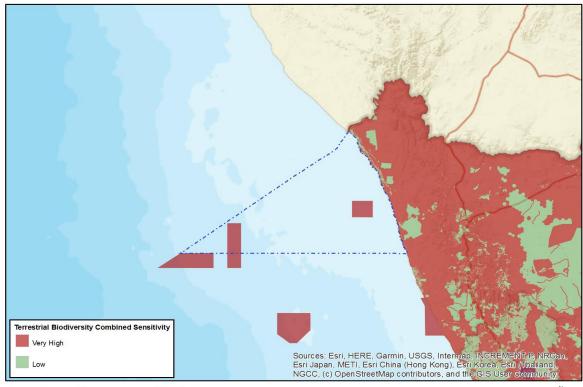
Sensitivity Features:

Sensitivity	Feature(s)	
Low	Low Sensitivity	
Medium	Leipoldtia frutescens	
Medium	Wooleya farinosa	
Medium	Cephalophyllum tetrastichum	
Medium	Manulea cinerea	
Medium	Sensitive species 827	
Medium	Sensitive species 590	
Medium	Sensitive species 734	
Medium	Tetragonia pillansii	
Medium	Sensitive species 407	
Medium	Sensitive species 1110	
Medium	Leucoptera nodosa	
Medium	Bassia dinteri	
Medium	Sensitive species 1158	
Medium	Sensitive species 720	

Page 18 of 19

Medium	Sensitive species 305	
Medium	Sensitive species 1187	
Medium	Calobota acanthoclada	
Medium	Argyrolobium velutinum	
Medium	Helichrysum dunense	
Medium	Adromischus montium-klinghardtii	

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



0 50 100 200 Kilometers

A

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
х			

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Critical Biodiversity Area 1
Very High	Critical Biodiversity Area 2
Very High	Freshwater ecosystem priority area quinary catchments
Very High	Focus Areas for land-based protected areas expansion
Very High	Vulnerable ecosystem
Very High	South African Protected Areas