

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

EIA Reference number:

Project name: HERCULES SOLAR CLUSTER PROJECTHERCULES SOLAR PV1_PREF CORRIDORS

Project title: PREF CORRIDORS

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Applicant: HERCULES SOLAR PV1 (PTY) LTD

Compiler: SES

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Application Category: Utilities Infrastructure|Electricity|Distribution and Transmission|Powerline

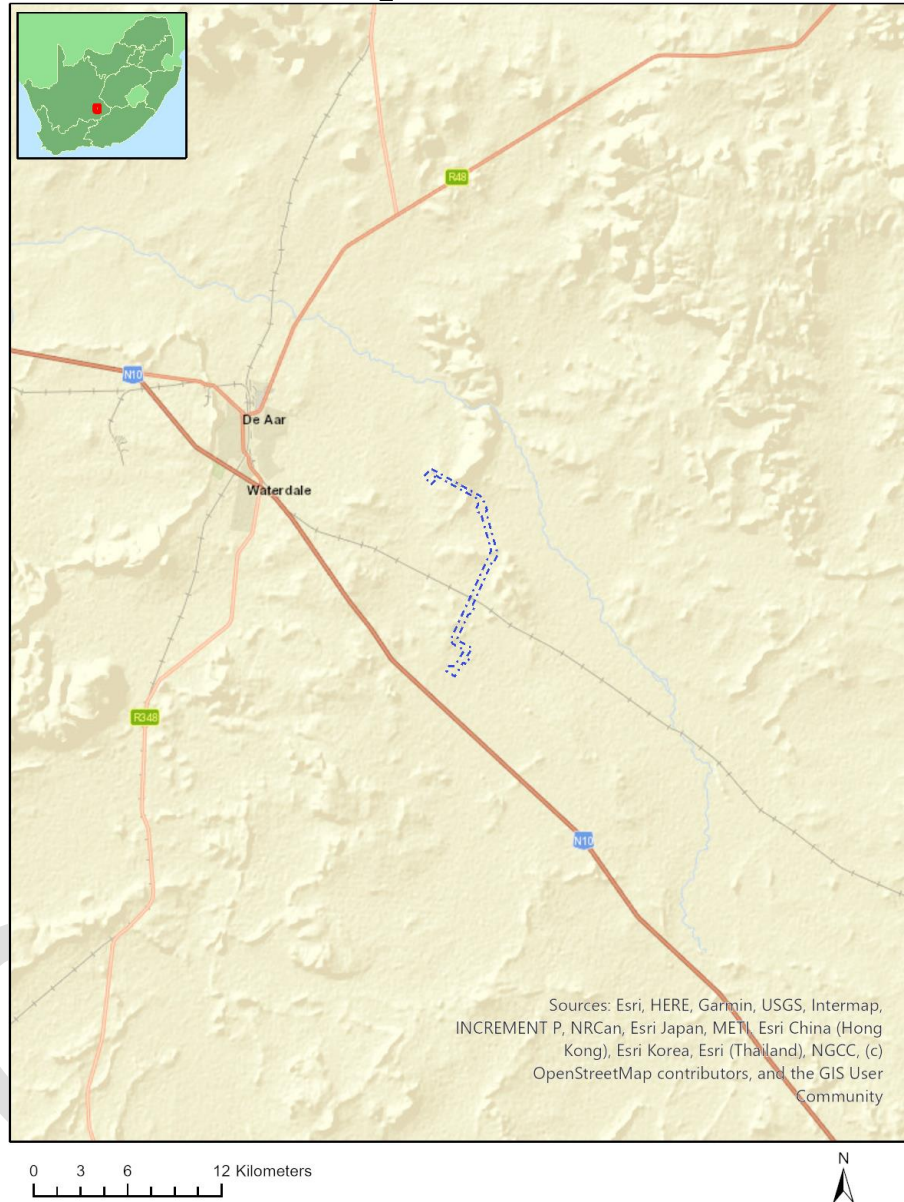
Table of Contents

Proposed Project Location	3
Orientation map 1: General location	3
Map of proposed site and relevant area(s)	4
Cadastral details of the proposed site	4
Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area	5
Environmental Management Frameworks relevant to the application	7
Environmental screening results and assessment outcomes	7
Relevant development incentives, restrictions, exclusions or prohibitions	7
Proposed Development Area Environmental Sensitivity	7
Specialist assessments identified	7
Results of the environmental sensitivity of the proposed area	9
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY	9
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY	10
MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY	11
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY	12
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY	13
MAP OF RELATIVE DEFENCE THEME SENSITIVITY	14
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY	15
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY	16
MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY	17

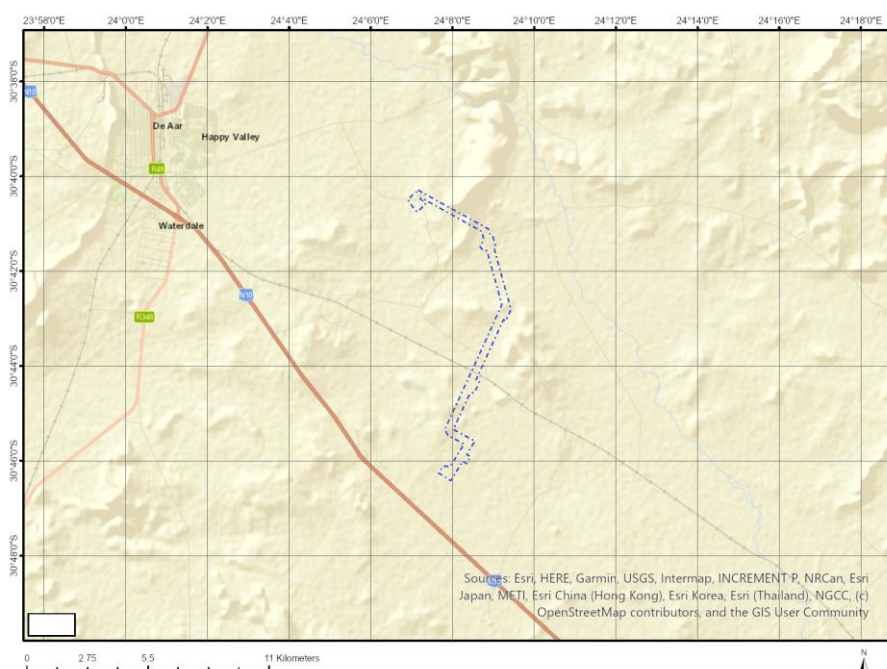
Proposed Project Location

Orientation map 1: General location

General Orientation: HERCULES SOLAR CLUSTER PROJECT PV1_PREF CORRIDORS



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	VETLAAGTE	4	0	30°40'41.07S	24°5'52.02E	Farm
2	CAROLUS POORT	3	0	30°38'46.25S	24°9'29.39E	Farm
3	WAGT EN BITTJE	5	0	30°42'53.16S	24°7'15.74E	Farm
4	RIET FOUNTAIN	6	0	30°44'21.77S	24°11'32.54E	Farm
5	ROODE KRAAL	28	0	30°47'33.81S	24°13'32.6E	Farm
6	HARTEBEEST HOEK	31	0	30°46'2.99S	24°4'33.4E	Farm
7	WAG 'N BIETJIE ANNEX C	137	0	30°41'50.8S	24°5'51.96E	Farm
8	CAROLUS POORT	3	0	30°39'18.54S	24°7'55.59E	Farm Portion
9	CAROLUS POORT	3	3	30°40'23.42S	24°10'7.4E	Farm Portion
10	VETLAAGTE	4	0	30°40'3.05S	24°5'43.49E	Farm Portion
11	WAGT EN BITTJE	5	0	30°42'15.12S	24°7'39.09E	Farm Portion
12	WAGT EN BITTJE	5	0	30°44'6.1S	24°6'57.44E	Farm Portion
13	WAGT EN BITTJE	5	1	30°43'24.34S	24°6'52.17E	Farm Portion
14	RIET FOUNTAIN	6	1	30°41'57.16S	24°9'56.18E	Farm Portion
15	RIET FOUNTAIN	6	4	30°43'45.95S	24°10'40.31E	Farm Portion
16	RIET FOUNTAIN	6	5	30°45'20.43S	24°10'45.08E	Farm Portion
17	RIET FOUNTAIN	6	0	30°45'31.66S	24°9'48.32E	Farm Portion
18	ROODE KRAAL	28	0	30°46'51.61S	24°10'30.95E	Farm Portion
19	HARTEBEEST HOEK	31	0	30°45'39.63S	24°6'38.02E	Farm Portion
20	WAG 'N BIETJIE ANNEX C	137	0	30°41'29.79S	24°6'10.62E	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	12/12/20/2250/2/AM2	Solar PV	Approved	0
2	12/12/20/1673	Solar PV	Approved	12.7
3	12/12/20/2250/2/AM4	Solar PV	Approved	0
4	12/12/20/2313/A1	Solar PV	Approved	7.2
5	12/12/20/2463/1/A2	Wind	Approved	9
6	14/12/16/3/3/2/278	Wind	Approved	19.2
7	12/12/20/2250/4/A1	Solar PV	Approved	0
8	14/12/16/3/3/2/504	Solar PV	Approved	3.4
9	12/12/20/2250/2/A1	Solar PV	Approved	0
10	14/12/16/3/3/1/2323	Solar PV	Approved	0
11	12/12/20/2463/1	Wind	Approved	16.8
12	14/12/16/3/3/2/382/AM4	Solar PV	Approved	0
13	12/12/20/2250/2/AM3	Solar PV	Approved	0
14	12/12/20/2463/2/AM2	Wind	Approved	20.7
15	12/12/20/2048/4	Solar PV	Approved	6.5
16	12/12/20/2499/AM8	Solar PV	Approved	3.4
17	14/12/16/3/3/1/2585	Solar PV	Approved	0
18	14/12/16/3/3/2/483	Solar PV	Approved	3.4
19	14/12/16/3/3/2/2155	Solar PV	Approved	0
20	14/12/16/3/3/2/382/4/AM3	Solar PV	Approved	0
21	12/12/20/2177	Solar PV	Approved	3.4
22	12/12/20/2313/AM2	Solar PV	Approved	7.2
23	14/12/16/3/3/2/382/1/AM2	Solar PV	Approved	0
24	12/12/20/2250/2/AM5	Solar PV	Approved	0
25	14/12/16/3/3/2/2167	Solar PV	Approved	23.1
26	12/12/20/1651/A2	Wind	Approved	7.1
27	14/12/16/3/3/2/382/5/AM3	Solar PV	Approved	0
28	14/12/16/3/3/2/506	Solar PV	Approved	3.4
29	14/12/16/3/3/2/382/2	Solar PV	Approved	0
30	12/12/20/2250/4/AM4	Solar PV	Approved	0
31	14/12/16/3/3/2/382/5	Solar PV	Approved	0
32	14/12/16/3/3/2/382/1/A1	Solar PV	Approved	0
33	12/12/20/2250/1/AM2	Solar PV	Approved	0
34	14/12/16/3/3/2/404	Wind	Approved	23.2
35	12/12/20/2498/A1	Solar PV	Approved	5.2
36	12/12/20/2250	Solar PV	Approved	0
37	14/12/16/3/3/2/2564	Solar PV	Approved	0
38	12/12/20/2500/AM6	Solar PV	Approved	12.7
39	12/12/20/2048/1	Solar PV	Approved	6.5
40	14/12/16/3/3/2/382/1	Solar PV	Approved	0
41	12/12/20/2463/1/2	Wind	Approved	9
42	12/12/20/1651	Wind	Approved	7.1

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.

43	14/12/16/3/3/1/2508	Solar PV	Approved	0
44	14/12/16/3/3/2/382/3/AM4	Solar PV	Approved	0
45	14/12/16/3/3/2/382/4/A3	Solar PV	Approved	0
46	14/12/16/3/3/1/2569	Solar PV	Approved	3.4
47	12/12/20/2250/1	Solar PV	Approved	0
48	14/12/16/3/3/2/2562	Solar PV	Approved	0
49	14/12/16/3/3/2/2563	Solar PV	Approved	0
50	14/12/16/3/3/2/382/4	Solar PV	Approved	0
51	14/12/16/3/3/2/2267	Solar PV	Approved	13.8
52	12/12/20/2463/1/AM3	Wind	Approved	9
53	14/12/16/3/3/2/382/1/AM5	Solar PV	Approved	0
54	14/12/16/3/3/2/382/6/AM3	Solar PV	Approved	0
55	14/12/16/3/3/2/382/A1	Solar PV	Approved	0
56	14/12/16/3/3/2/382/1/AM3	Solar PV	Approved	0
57	14/12/16/3/3/2/2157	Solar PV	Approved	0
58	12/12/20/2177/AM1	Solar PV	Approved	3.4
59	12/12/20/2025	Solar - CSP	Approved	11
60	14/12/16/3/3/2/2565	Solar PV	Approved	0
61	14/12/16/3/3/2/382/4/A1	Solar PV	Approved	0
62	12/12/20/2250/2	Solar PV	Approved	0
63	14/12/16/3/3/1/2557	Wind	Approved	0
64	14/12/16/3/3/1/2329	Wind	Approved	16.1
65	14/12/16/3/3/2/382/7	Solar PV	Approved	0
66	12/12/20/2498	Solar PV	Approved	5.2
67	14/12/16/3/3/2/456	Solar PV	Approved	5.2
68	14/12/16/3/3/2/382/2/AM2	Solar PV	Approved	0
69	12/12/20/2025/2/A	Solar PV	Approved	11
70	12/12/20/2500/AM3	Solar PV	Approved	12.7
71	14/12/16/3/3/2/382/3	Solar PV	Approved	0
72	14/12/16/3/3/2/2156	Solar PV	Approved	0
73	14/12/16/3/3/2/382/AM3	Solar PV	Approved	0
74	12/12/20/2250/3/AM3	Solar PV	Approved	0
75	14/12/16/3/3/2/382/1/AM4	Solar PV	Approved	0
76	14/12/16/3/3/2/998	Solar PV	Approved	18
77	12/12/20/2500/AM5	Solar PV	Approved	12.7
78	12/12/20/2252/2/AM4	Solar - CSP	Approved	0
79	14/12/16/3/3/2/382/3/AM3	Solar PV	Approved	0
80	14/12/16/3/3/2/382/3/A2	Solar PV	Approved	0
81	12/12/20/2250/5/A1	Solar PV	Approved	4.9
82	12/12/20/2500/AM2	Solar PV	Approved	12.7
83	12/12/20/2250/5	Solar PV	Approved	4.9
84	14/12/16/3/3/2/382/5/A1	Solar PV	Approved	0
85	14/12/16/3/3/2/403	Solar PV	Approved	23.2
86	12/12/20/2463/1/AM5	Wind	Approved	9
87	12/12/20/2250/5/AM2	Solar PV	Approved	4.9
88	12/12/20/2250/4	Solar PV	Approved	0
89	12/12/20/2463/1/AM4	Wind	Approved	9
90	12/12/20/2463/2	Wind	Approved	9
91	12/12/20/2048/2	Solar PV	Approved	6.5
92	12/12/20/2025/2	Solar PV	Approved	11
93	12/12/20/2250/3	Solar PV	Approved	0
94	12/12/20/2258/4	Solar PV	Approved	23
95	12/12/20/2048/3	Solar PV	Approved	6.5
96	14/12/16/3/3/2/382/6	Solar PV	Approved	0
97	12/12/20/2250/1/AM1	Solar PV	Approved	0
98	12/12/20/2025/1	Solar - CSP	Approved	11
99	14/12/16/3/3/2/455	Solar PV	Approved	5.2
100	12/12/20/2500	Solar PV	Approved	12.7
101	12/12/20/2250/4/AM2	Solar PV	Approved	0
102	12/12/20/2498/AM3	Solar PV	Approved	5.2

103	12/12/20/2250/4/AM3	Solar PV	Approved	0
104	14/12/16/3/3/2/382/2/AM1	Solar PV	Approved	0

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:

Utilities Infrastructure | Electricity | Distribution and Transmission | Powerline.

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	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf

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

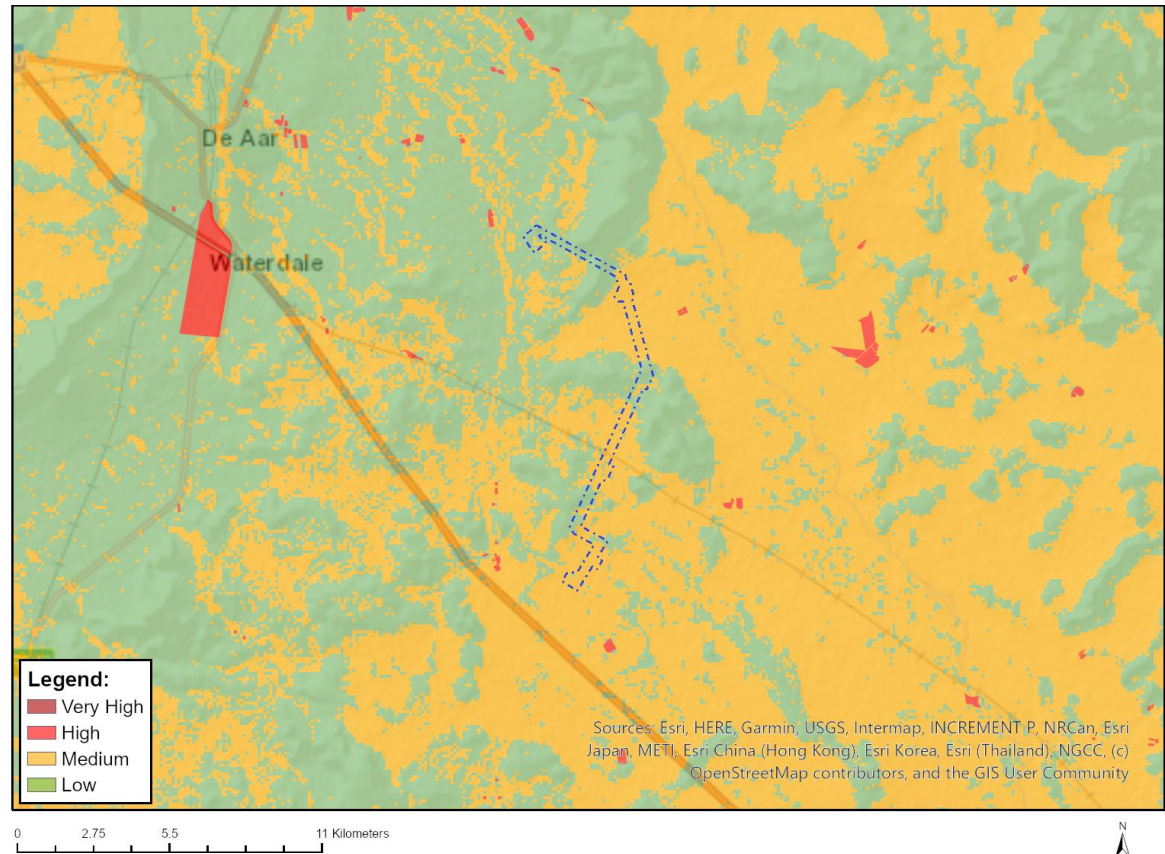
assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

No	Specialist assessment	Assessment Protocol
1	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
2	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
3	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf
4	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
5	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
6	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/GuidanceforHIA.pdf
7	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/GuidanceforPIA.pdf
8	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
9	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
10	Avian Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Avifauna_Assessment_Protocols.pdf
11	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
12	RFI Assessment	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

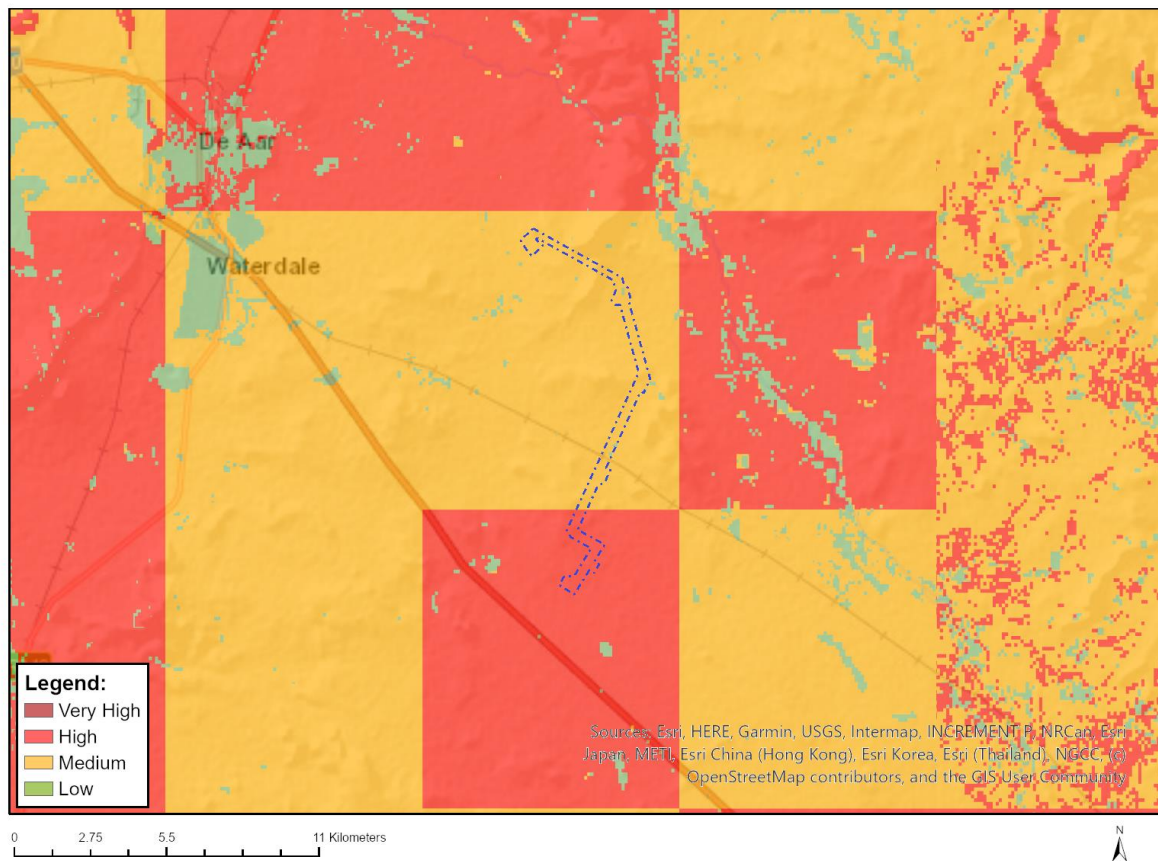


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	04. Low-Very low
Low	03. Low-Very low
Low	02. Very low
Low	05. Low
Medium	06. Low-Moderate
Medium	07. Low-Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



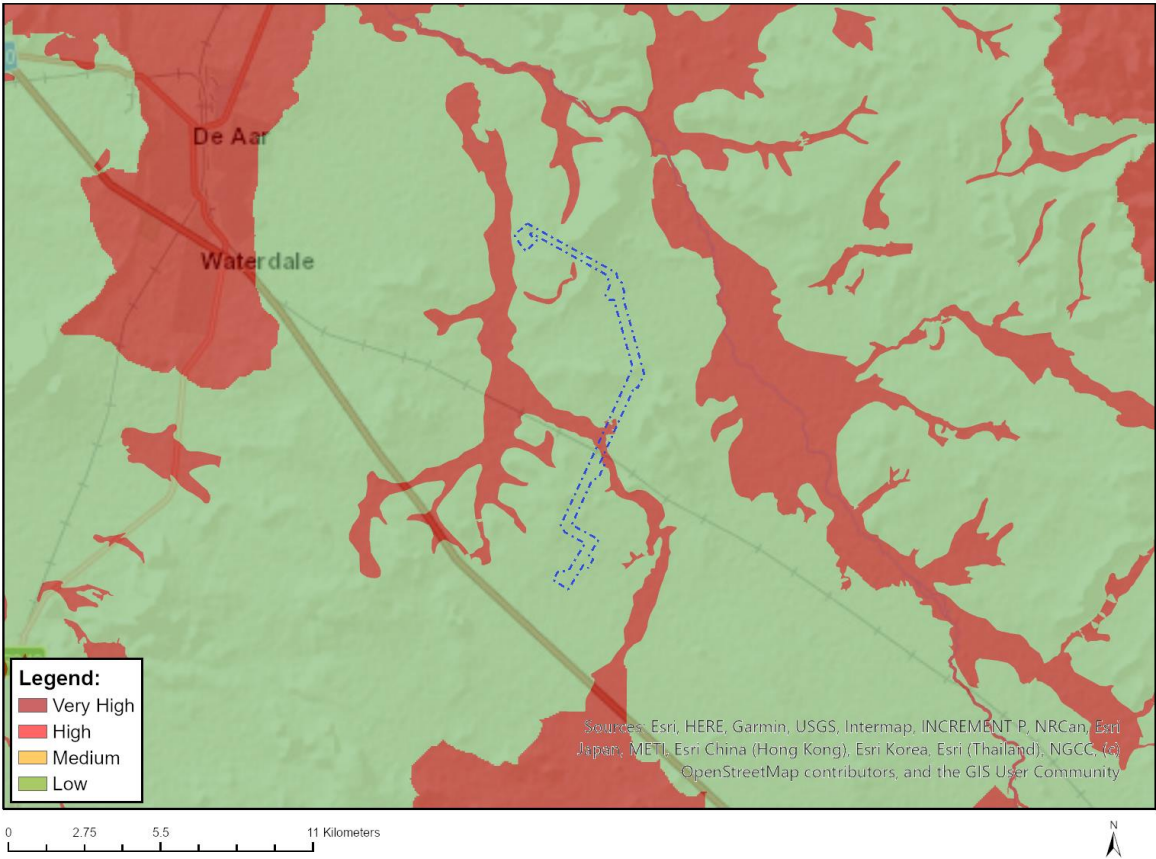
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Neotis ludwigii
Low	Subject to confirmation
Medium	Aves-Aquila rapax
Medium	Aves-Aquila verreauxii
Medium	Aves-Neotis ludwigii

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

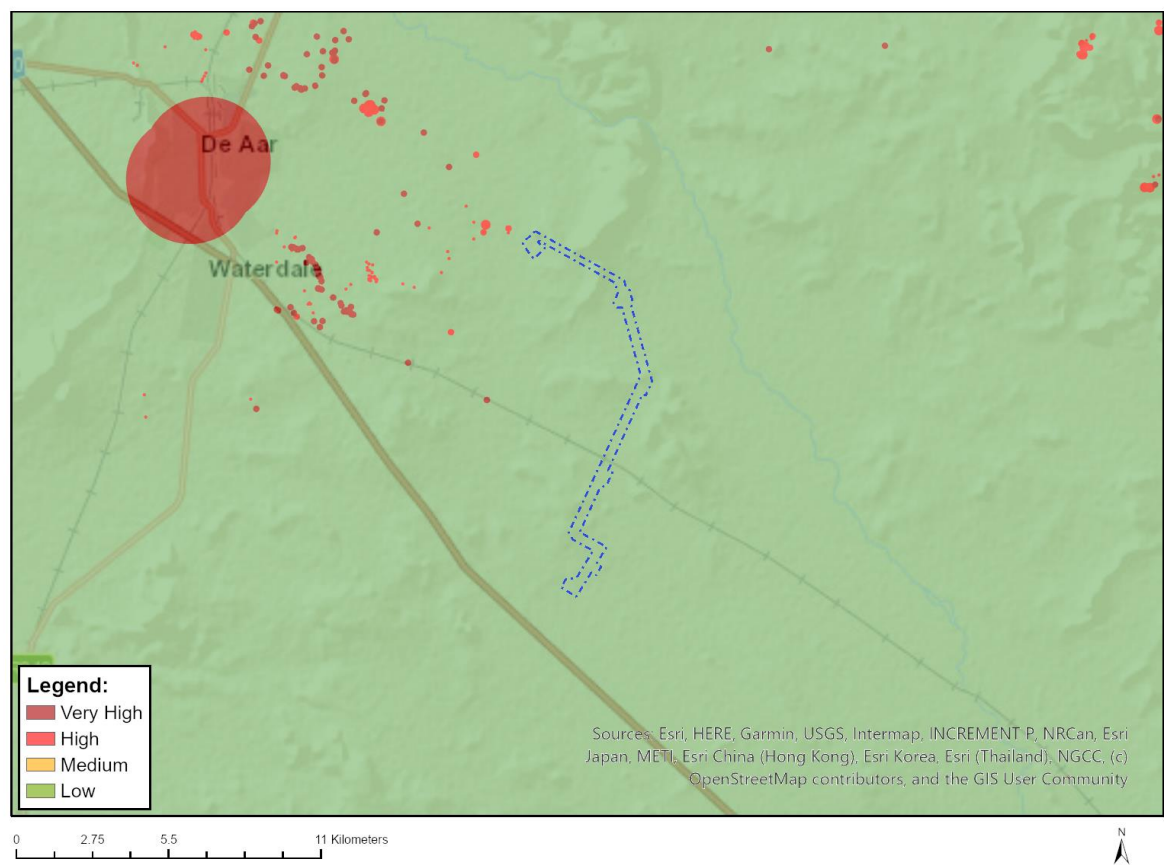


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Wetlands_River

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

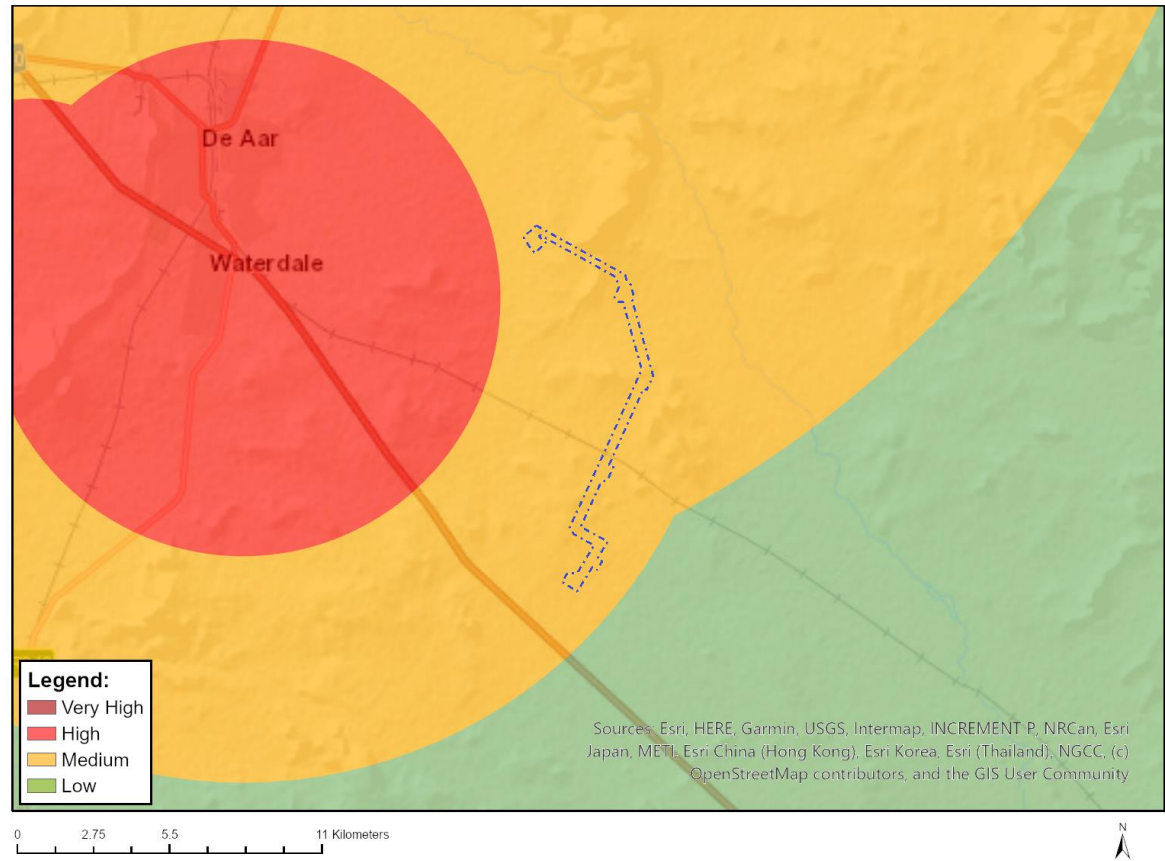


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

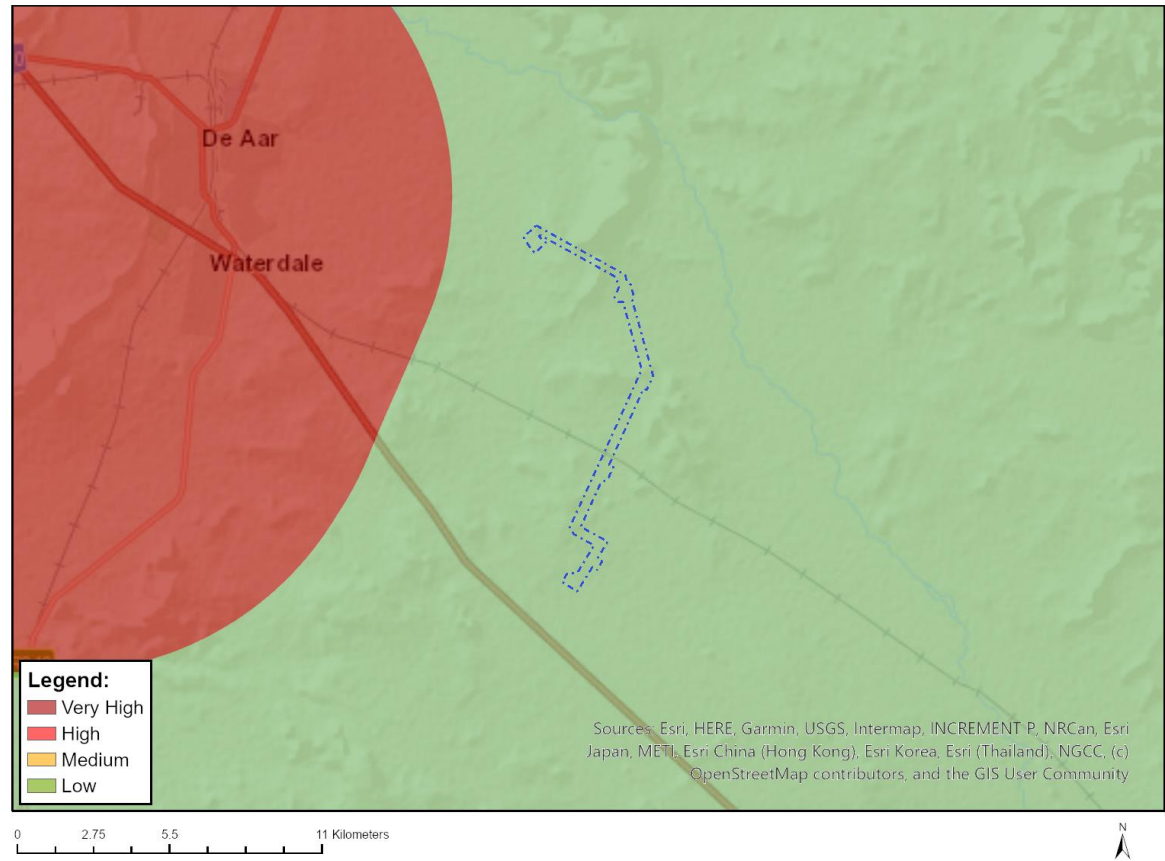


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Within 5 km of an air traffic control or navigation site
Medium	Between 15 and 35 km from a civil aviation radar
Medium	Between 8 and 15 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

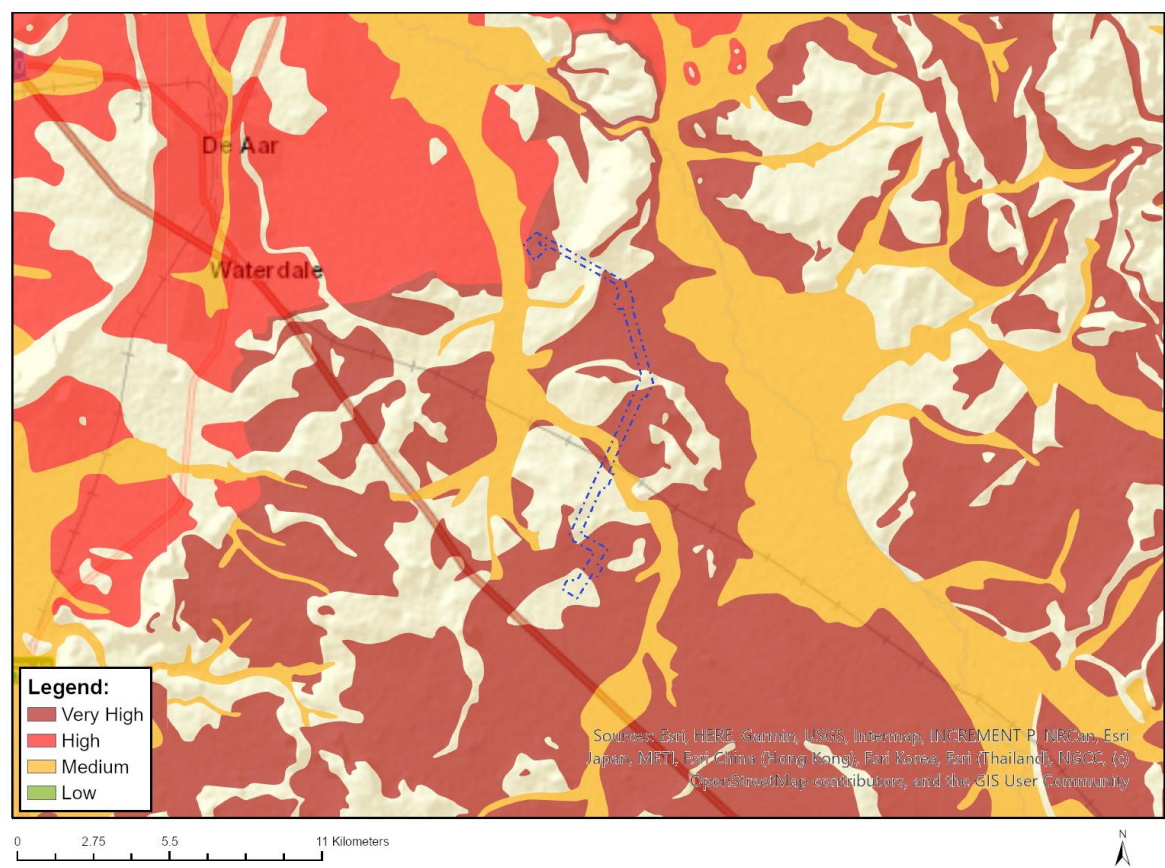


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

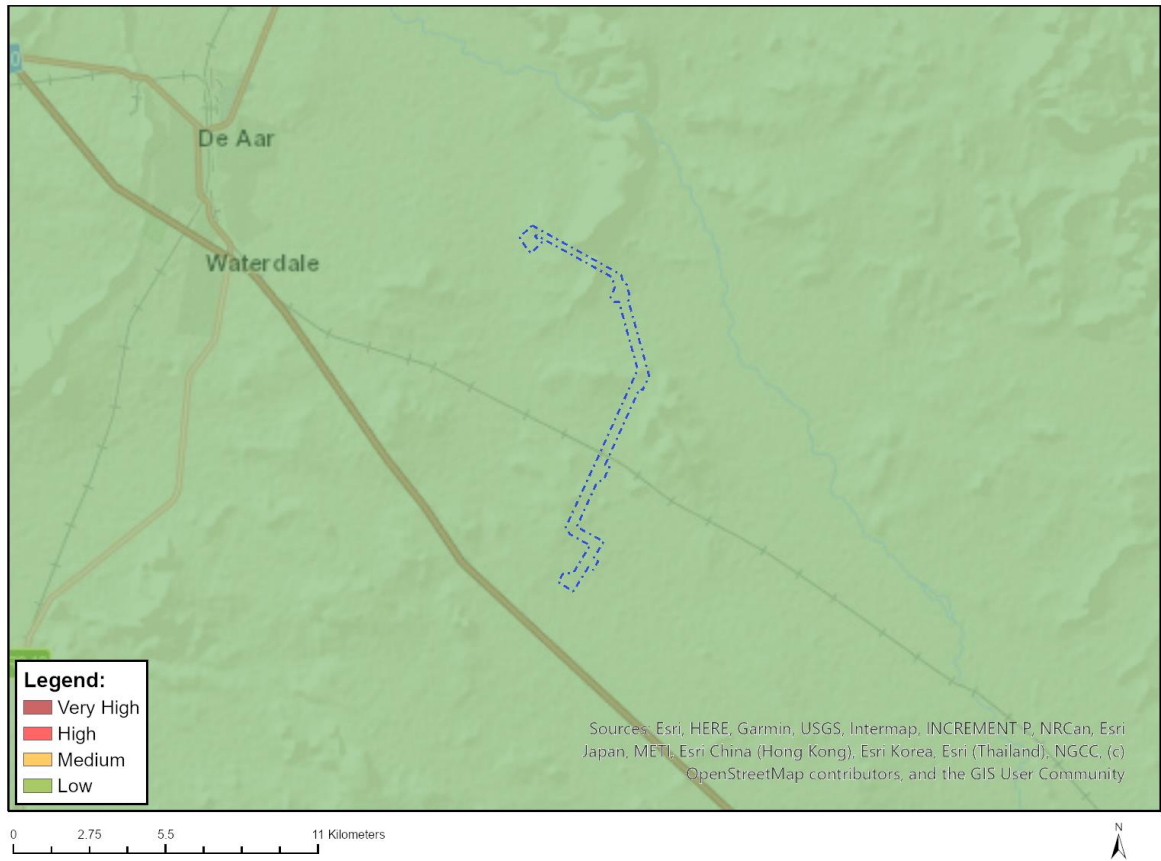


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Features with a High 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



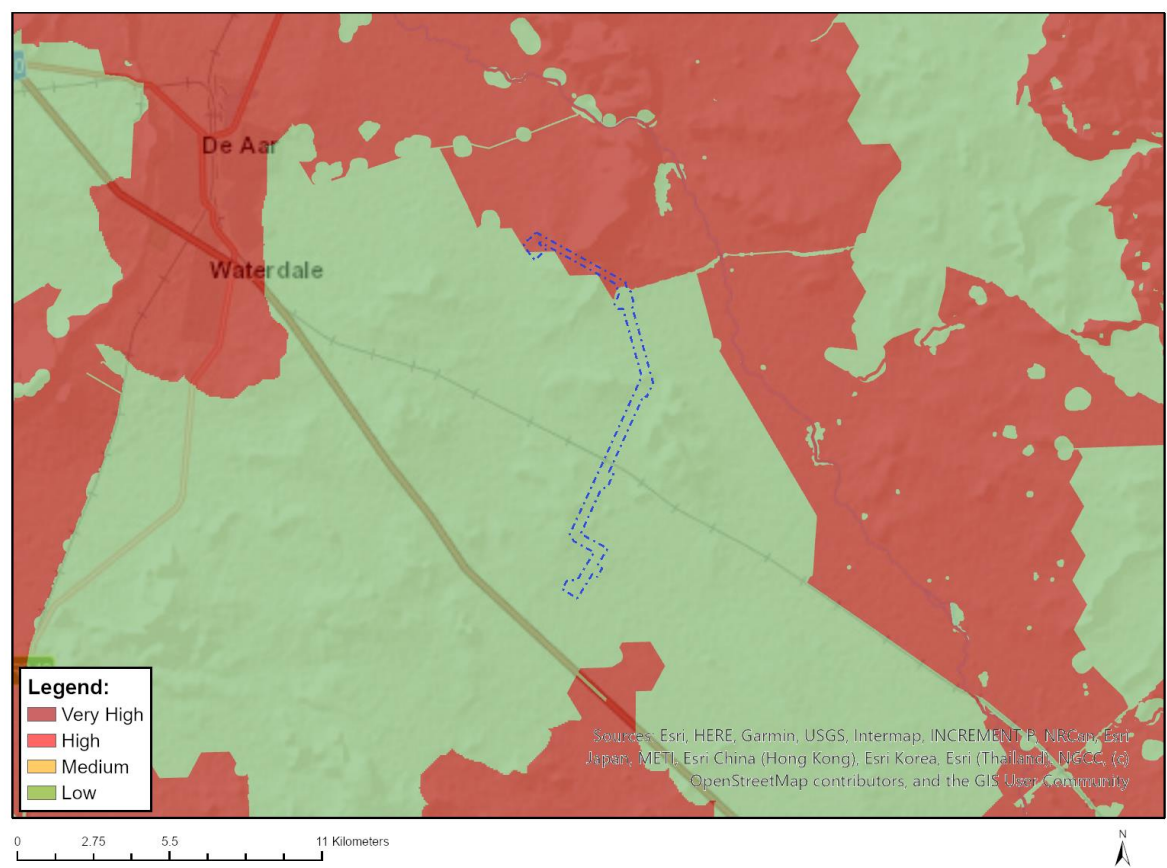
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Low	Low Sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	CBA 1
Very High	CBA 2