

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

EIA Reference number: TBC

Project name: Sol Invictus PVSEF 132 kV Overhead Powerline near Aggeneys, Northern Cape Province

Project title: Basic Assessment Process

Date screening report generated: 06/07/2021 16:53:17

Applicant: Sol Invictus (Pty) Ltd

Compiler: WSP Group Africa (Pty) Ltd

Compiler signature:

.....

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



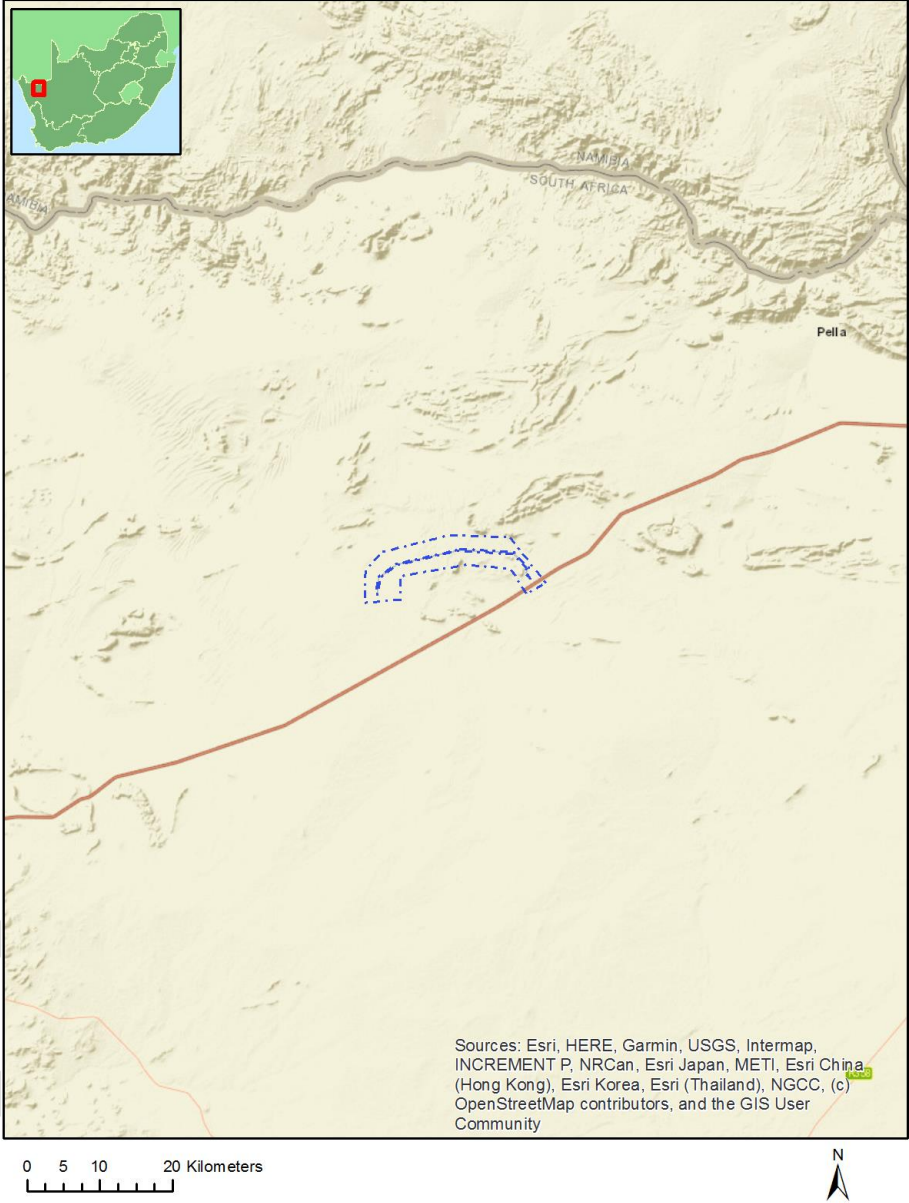
Table of Contents

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	7
Environmental Management Frameworks relevant to the application	7
Environmental screening results and assessment outcomes	7
Relevant development incentives, restrictions, exclusions or prohibitions	7
Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones	8
Proposed Development Area Environmental Sensitivity	8
Specialist assessments identified	9
Results of the environmental sensitivity of the proposed area	11
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY	11
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY	12
MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY	13
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY	14
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY	15
MAP OF RELATIVE DEFENCE THEME SENSITIVITY	16
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY	17
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY	18
MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY	19

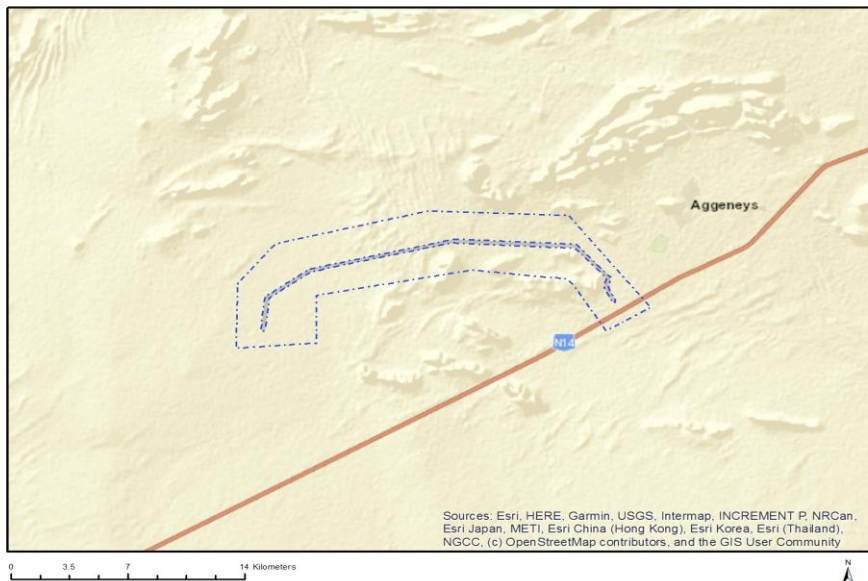
Proposed Project Location

Orientation map 1: General location

General Orientation: Sol Invictus PVSEF 132 kV Overhead Powerline near Aggeney, Northern Cape Province



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	ZUURWATER	62	0	29°16'48.54S	18°42'30.25E	Farm
2	OU TAAIBOSMOND	66	0	29°16'58.47S	18°33'35.82E	Farm
3	AGGENEYS	56	0	29°16'36.68S	18°49'41.59E	Farm
4	ZUURWATER	62	5	29°15'52.66S	18°39'50.07E	Farm Portion
5	OU TAAIBOSMOND	66	14	29°15'44.84S	18°37'24.03E	Farm Portion
6	ZUURWATER	62	4	29°13'32.72S	18°45'45.65E	Farm Portion
7	AGGENEYS	56	1	29°19'56.99S	18°47'34.66E	Farm Portion
8	OU TAAIBOSMOND	66	9	29°17'40.59S	18°37'0.58E	Farm Portion
9	OU TAAIBOSMOND	66	9	29°17'19.69S	18°37'48.89E	Farm Portion
10	AGGENEYS	56	2	29°17'48.56S	18°48'9.88E	Farm Portion
11	AGGENEYS	56	1	29°16'19.4S	18°48'9.88E	Farm Portion
12	ZUURWATER	62	3	29°18'46.48S	18°43'59.37E	Farm Portion
13	ZUURWATER	62	6	29°14'35.51S	18°41'28.77E	Farm Portion
14	AGGENEYS	56	12	29°18'49.4S	18°46'50.78E	Farm Portion
15	OU TAAIBOSMOND	66	5	29°20'14S	18°35'33.14E	Farm Portion
16	ZUURWATER	62	0	29°18'58.53S	18°40'11.17E	Farm Portion
17	ZUURWATER	62	2	29°15'42.42S	18°44'29.18E	Farm Portion
18	OU TAAIBOSMOND	66	6	29°17'5.02S	18°33'59.34E	Farm Portion

Development footprint¹ vertices:

Footprint	Latitude	Longitude
1	29°18'38.88S	18°36'43.73E
1	29°18'38.85S	18°36'43.3E
1	29°18'38.79S	18°36'42.88E
1	29°18'38.68S	18°36'42.46E
1	29°18'38.53S	18°36'42.07E
1	29°18'38.34S	18°36'41.69E
1	29°18'38.11S	18°36'41.35E
1	29°18'37.85S	18°36'41.04E
1	29°18'37.56S	18°36'40.76E
1	29°18'37.25S	18°36'40.53E
1	29°18'36.9S	18°36'40.33E
1	29°18'36.55S	18°36'40.18E
1	29°18'36.19S	18°36'40.08E
1	29°18'35.81S	18°36'40.03E
1	29°18'35.44S	18°36'40.03E
1	29°18'35.28S	18°36'40.05E
1	29°17'34.39S	18°36'47.46E
1	29°17'34.16S	18°36'47.5E
1	29°17'33.79S	18°36'47.6E
1	29°17'33.44S	18°36'47.75E
1	29°17'33.1S	18°36'47.94E
1	29°17'32.79S	18°36'48.18E
1	29°17'32.5S	18°36'48.46E
1	29°17'32.24S	18°36'48.77E
1	29°17'32.06S	18°36'49.03E
1	29°16'41.93S	18°38'11.23E
1	29°16'41.88S	18°38'11.3E
1	29°16'41.69S	18°38'11.68E
1	29°16'41.55S	18°38'12.07E
1	29°16'41.45S	18°38'12.46E
1	29°16'29.4S	18°39'8.31E
1	29°15'44.83S	18°42'51.02E
1	29°15'44.78S	18°42'51.41E
1	29°15'44.75S	18°42'51.84E
1	29°15'44.76S	18°42'52.02E
1	29°15'54.46S	18°46'49.94E
1	29°15'54.47S	18°46'50.2E
1	29°15'54.54S	18°46'50.63E
1	29°15'54.65S	18°46'51.04E
1	29°15'54.79S	18°46'51.43E
1	29°15'54.99S	18°46'51.8E
1	29°15'55.21S	18°46'52.14E
1	29°15'55.47S	18°46'52.46E
1	29°15'55.49S	18°46'52.48E
1	29°16'55.32S	18°47'56.13E
1	29°16'55.6S	18°47'56.39E
1	29°16'55.91S	18°47'56.63E
1	29°16'56.25S	18°47'56.82E
1	29°16'56.61S	18°47'56.97E
1	29°16'56.97S	18°47'57.07E
1	29°16'57.34S	18°47'57.11E

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.

1	29°16'57.73S	18°47'57.11E
1	29°16'58.1S	18°47'57.07E
1	29°16'58.3S	18°47'57.02E
1	29°17'14.96S	18°47'52.39E
1	29°17'39.78S	18°48'6.03E
1	29°17'39.91S	18°48'6.09E
1	29°17'40.26S	18°48'6.24E
1	29°17'40.63S	18°48'6.33E
1	29°17'41S	18°48'6.39E
1	29°17'41.38S	18°48'6.39E
1	29°17'41.76S	18°48'6.33E
1	29°17'42.12S	18°48'6.24E
1	29°17'42.48S	18°48'6.09E
1	29°17'42.82S	18°48'5.9E
1	29°17'43.13S	18°48'5.66E
1	29°17'43.42S	18°48'5.38E
1	29°17'43.68S	18°48'5.07E
1	29°17'43.91S	18°48'4.72E
1	29°17'44.09S	18°48'4.35E
1	29°17'44.25S	18°48'3.96E
1	29°17'44.36S	18°48'3.54E
1	29°17'44.42S	18°48'3.12E
1	29°17'44.44S	18°48'2.69E
1	29°17'44.42S	18°48'2.26E
1	29°17'44.36S	18°48'1.83E
1	29°17'44.25S	18°48'1.42E
1	29°17'44.09S	18°48'1.03E
1	29°17'43.91S	18°48'0.66E
1	29°17'43.68S	18°48'0.31E
1	29°17'43.42S	18°47'60E
1	29°17'43.13S	18°47'59.72E
1	29°17'42.82S	18°47'59.48E
1	29°17'42.6S	18°47'59.35E
1	29°17'16.74S	18°47'45.14E
1	29°17'16.61S	18°47'45.08E
1	29°17'16.26S	18°47'44.93E
1	29°17'15.89S	18°47'44.83E
1	29°17'15.51S	18°47'44.77E
1	29°17'15.13S	18°47'44.77E
1	29°17'14.76S	18°47'44.83E
1	29°17'14.56S	18°47'44.88E
1	29°16'58.47S	18°47'49.35E
1	29°16'0.88S	18°46'48.08E
1	29°15'51.26S	18°42'52.17E
1	29°16'35.72S	18°39'10.05E
1	29°16'47.61S	18°38'14.89E
1	29°17'36.54S	18°36'54.65E
1	29°18'35.97S	18°36'47.41E
1	29°18'36.19S	18°36'47.39E
1	29°18'36.55S	18°36'47.28E
1	29°18'36.9S	18°36'47.14E
1	29°18'37.25S	18°36'46.94E
1	29°18'37.56S	18°36'46.71E
1	29°18'37.85S	18°36'46.43E
1	29°18'38.11S	18°36'46.12E
1	29°18'38.34S	18°36'45.77E
1	29°18'38.53S	18°36'45.4E
1	29°18'38.68S	18°36'45E
1	29°18'38.79S	18°36'44.59E
1	29°18'38.85S	18°36'44.16E

1	29°18'38.88S	18°36'43.73E
---	--------------	--------------

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	12/12/20/2334/4	Solar PV	Approved	1.1
2	12/12/20/2151	Solar PV	Approved	0
3	14/12/16/3/3/2/448/1	Solar PV	Approved	8.9
4	14/12/16/3/3/2/448/10	Solar PV	Approved	8.9
5	14/12/16/3/3/2/222	Solar PV	Approved	0
6	12/12/20/2334/5	Solar PV	Approved	1.1
7	12/12/20/2602	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 footprint as well as the most environmental sensitive features on the footprint based on the footprint 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

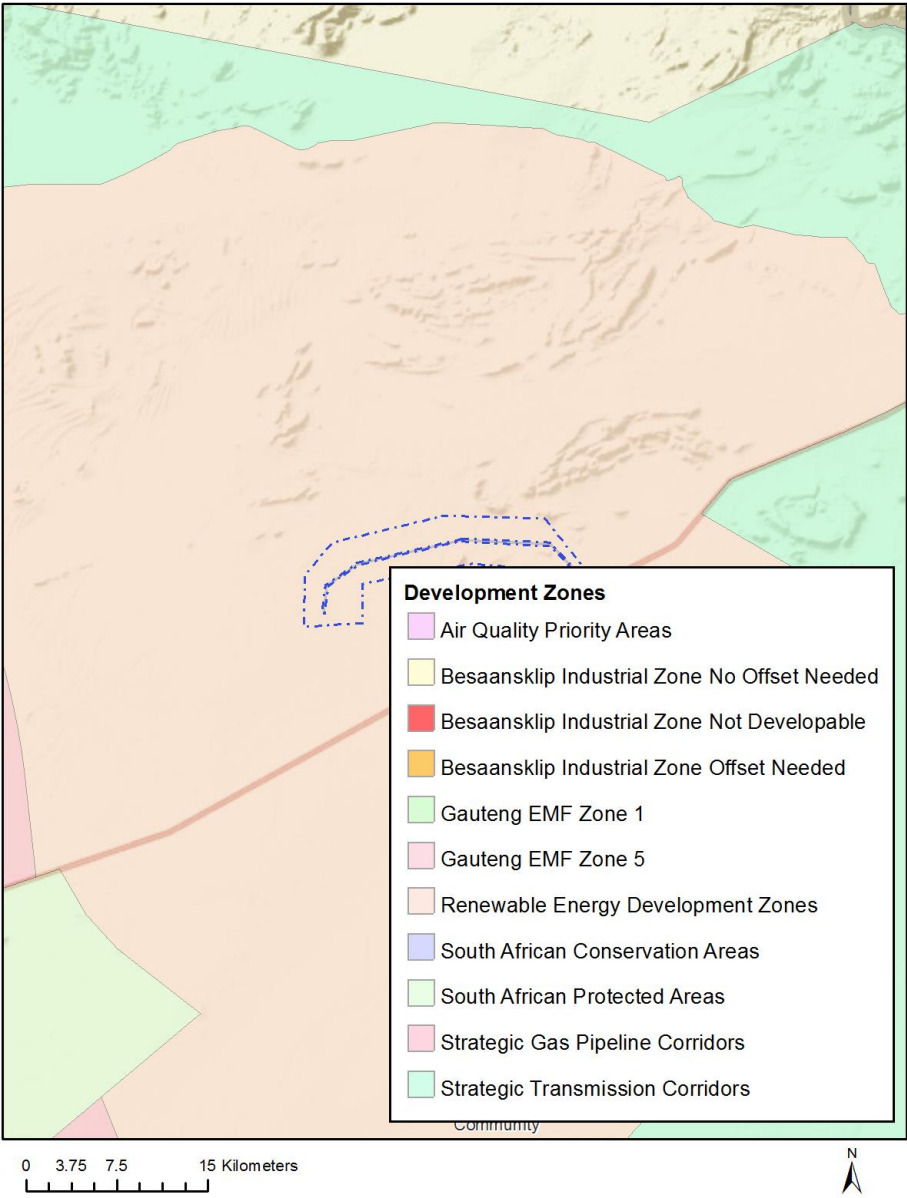
The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this footprint are indicated below.

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-Northern corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GN_113_16_February_2018.pdf
Renewable energy development	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GN_114_of_16_February_2018.pdf

ment zones 8- Springbo k	
-----------------------------------	--

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

Project Location: Sol Invictus PVSEF 132 kV Overhead Powerline near Aggeneys, Northern Cape Province



Proposed Development Area Environmental Sensitivity

The following summary of the development footprint 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 footprint situation.

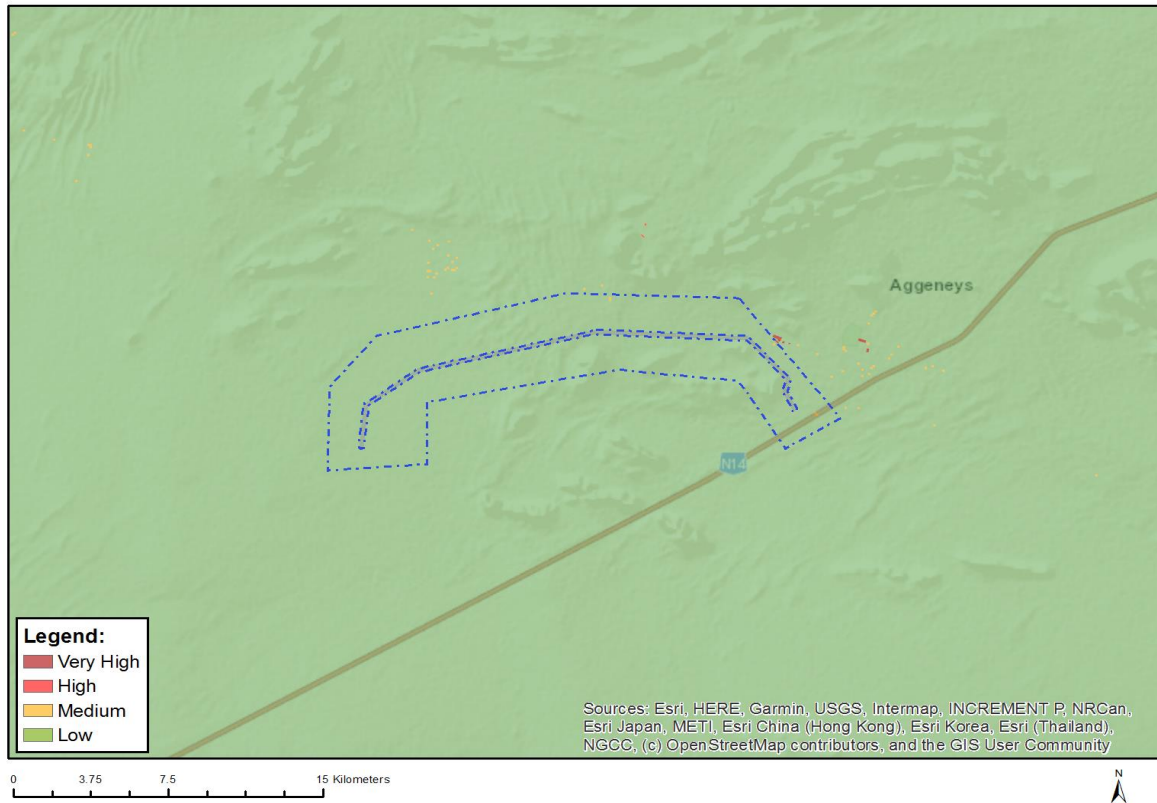
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Agriculture Assessment Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
3	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
4	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
5	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Terrestrial Biodiversity Assessment Protocols.pdf

6	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Avian Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Avifauna_Assessment_Protocols.pdf
8	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
9	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
10	Geotechnical 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 footprint 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

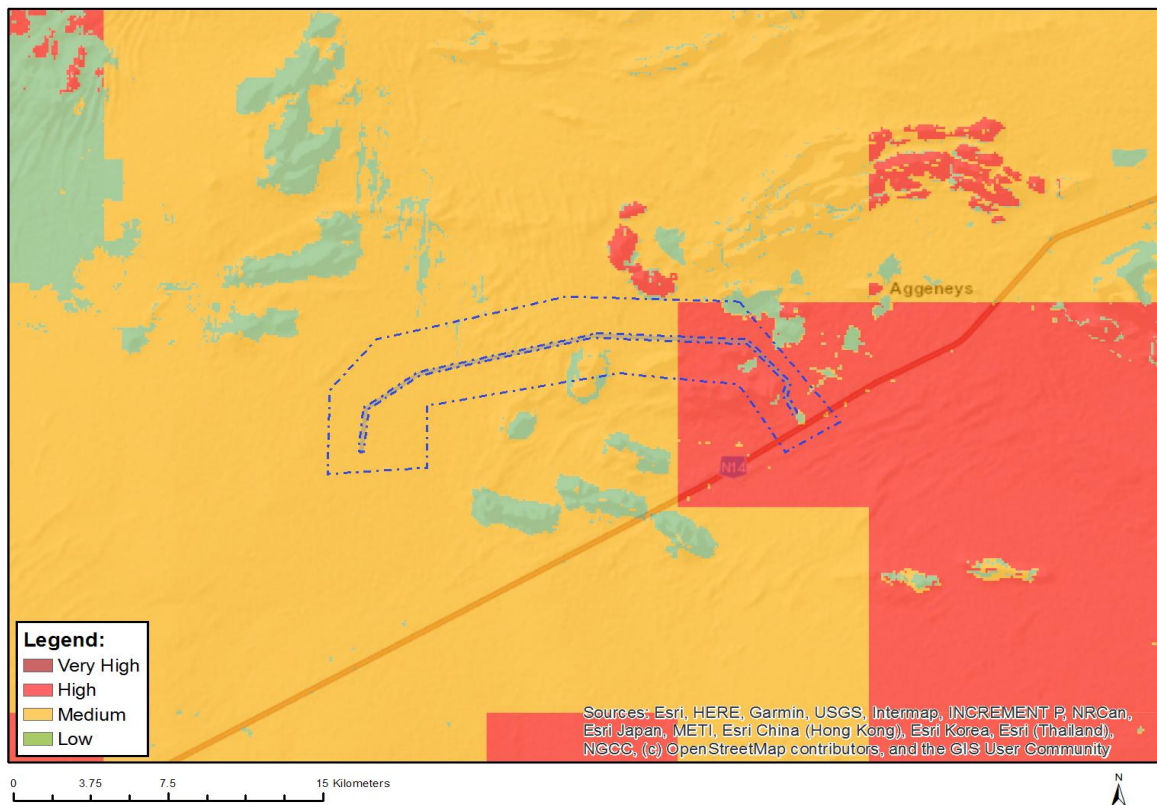


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



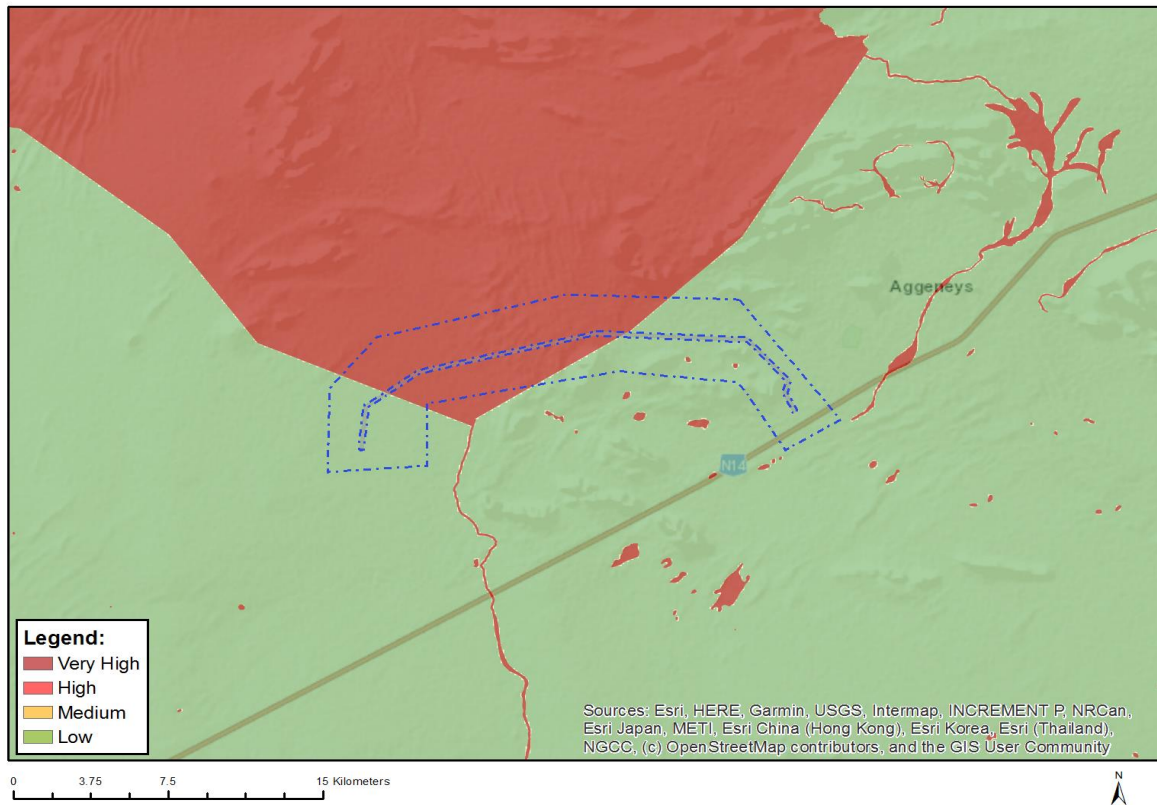
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at aiadatarequests@sanbi.org.za listing all sensitive species with their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

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

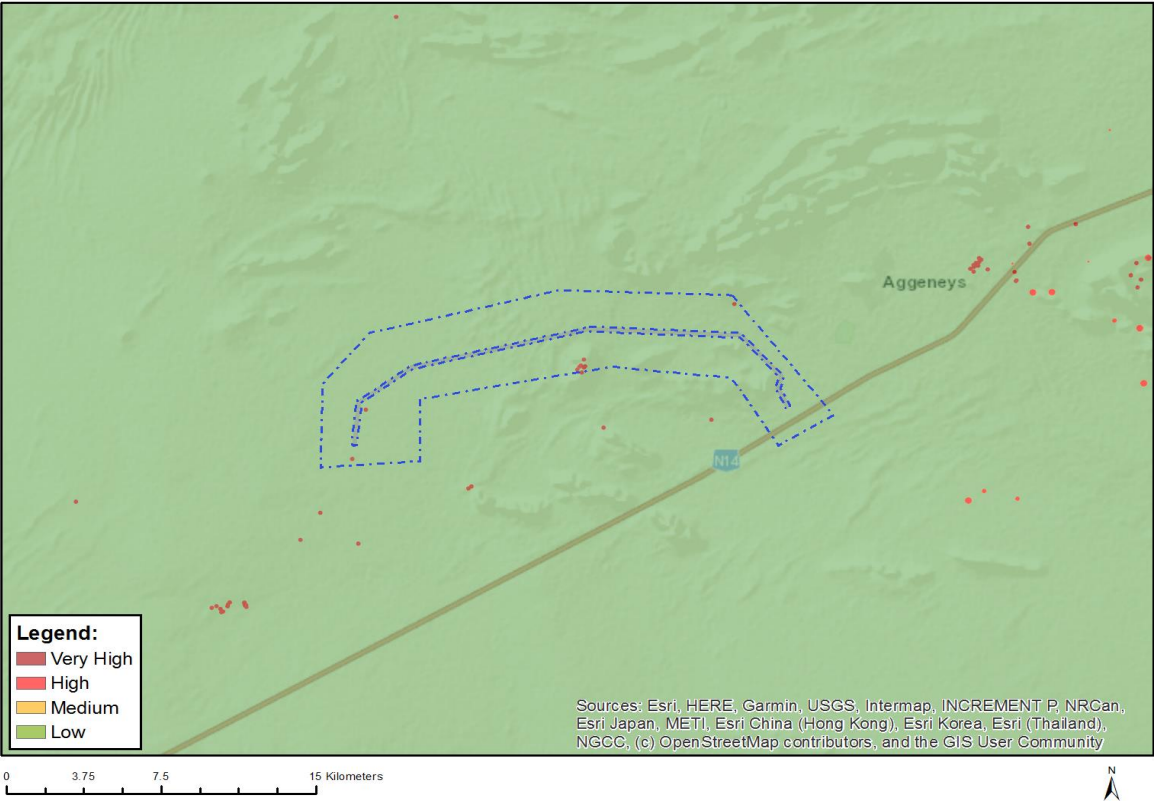


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

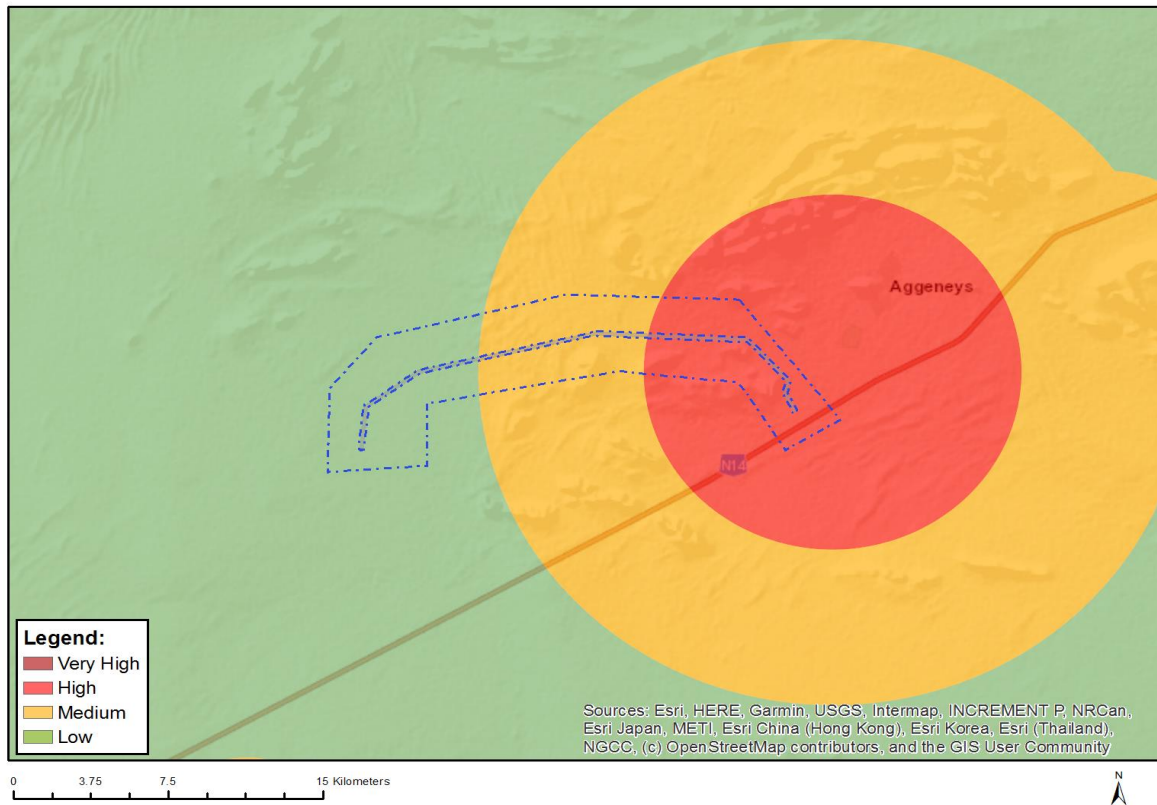


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

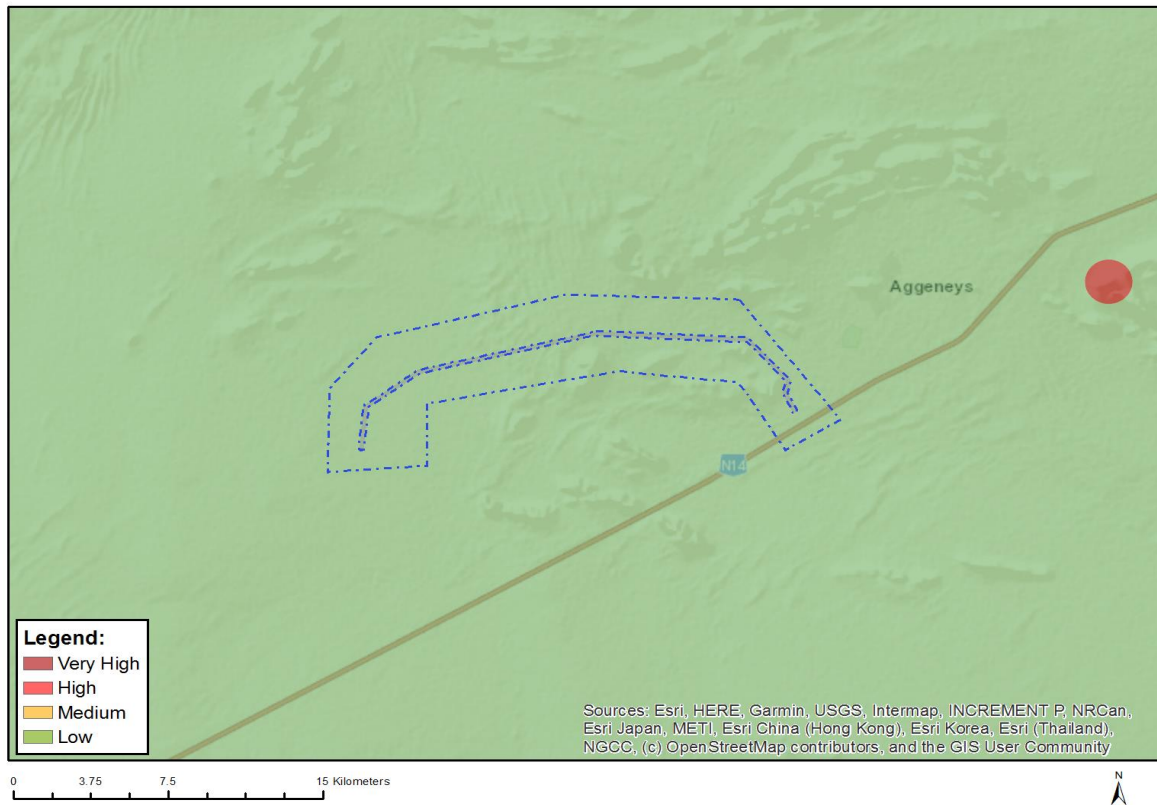


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

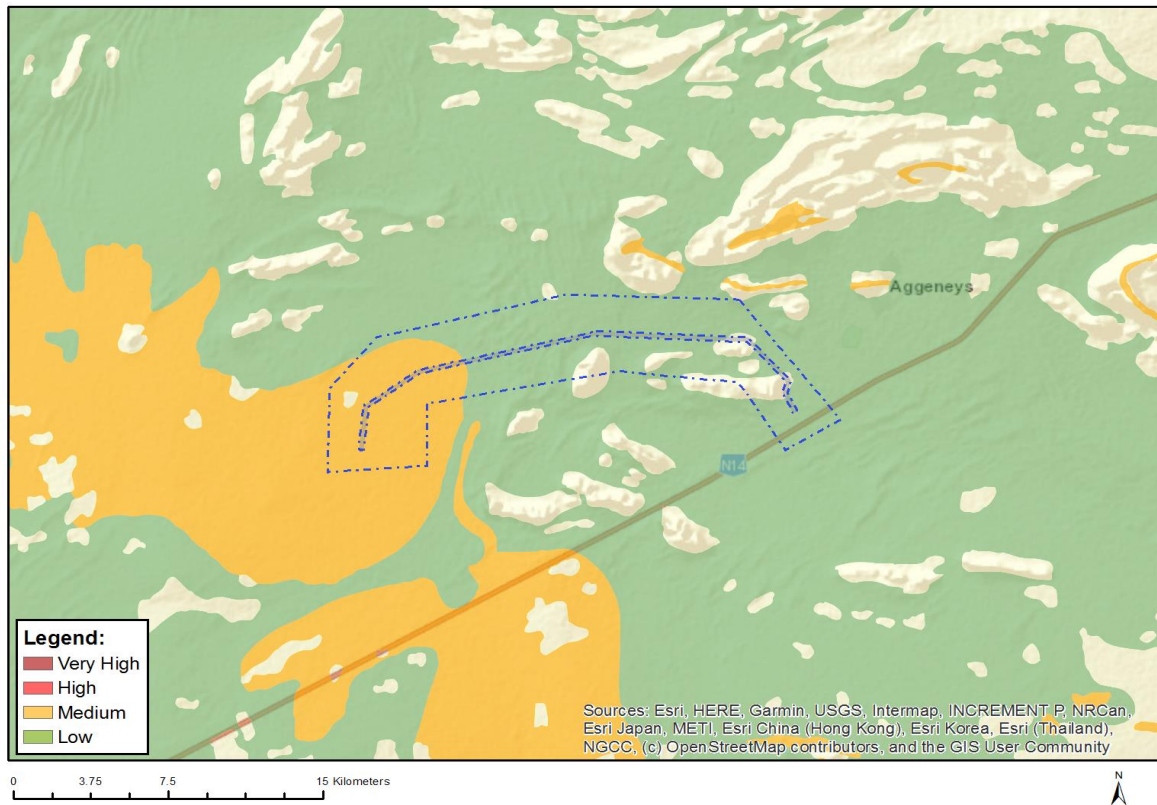


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

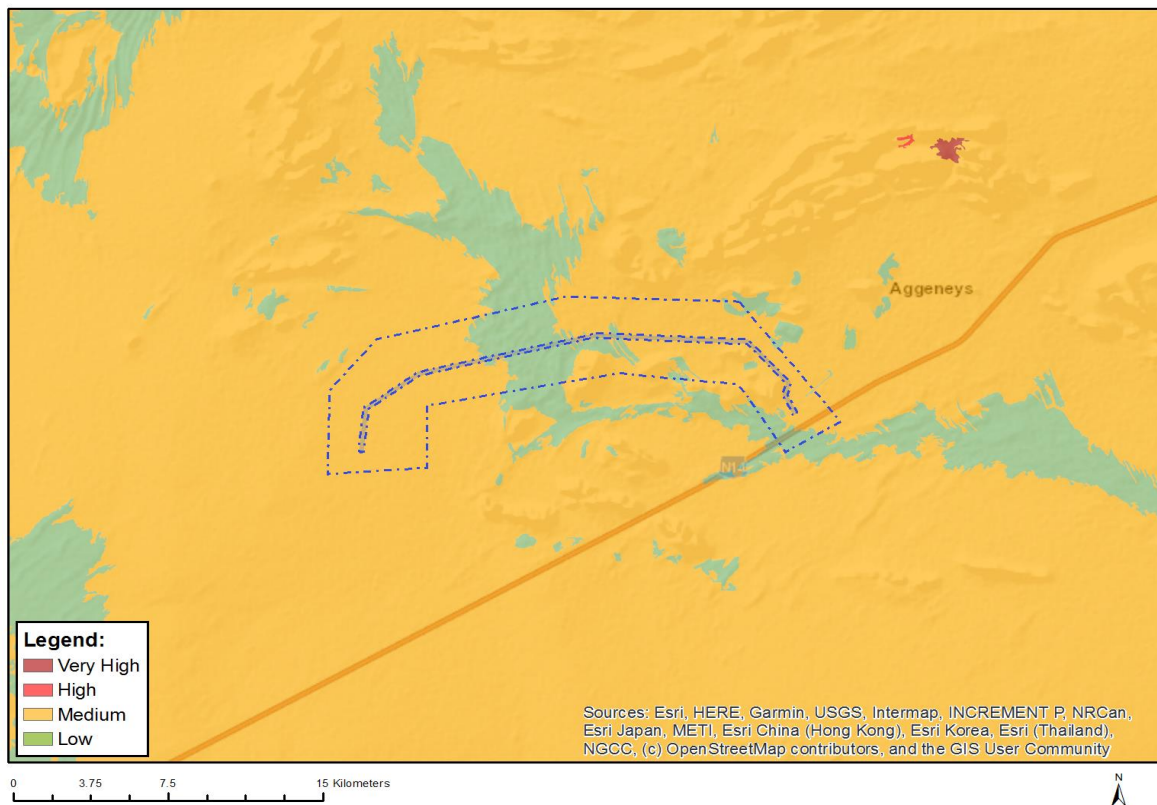


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

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



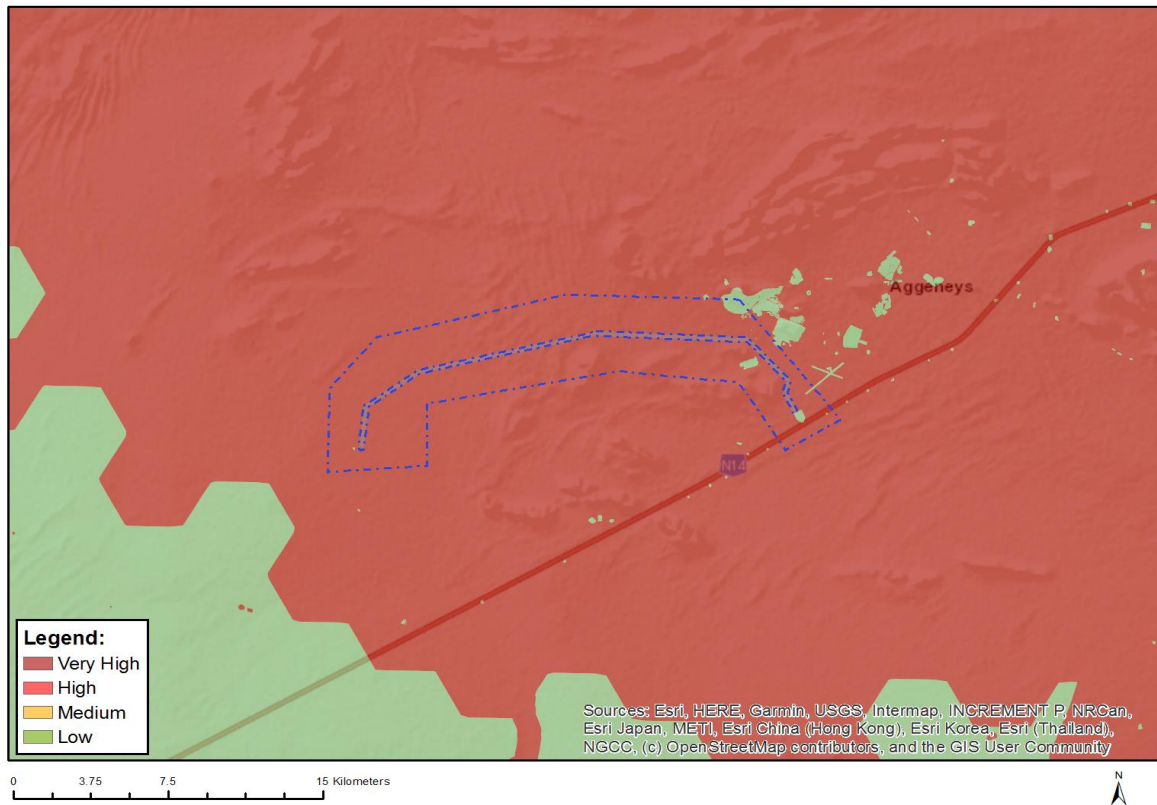
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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
Medium	Sensitive species 425
Medium	Sensitive species 119
Medium	Sensitive species 12
Medium	<i>Crotalaria pearsonii</i>
Medium	Sensitive species 144

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
Very High	Freshwater ecosystem priority area quinary catchments
Very High	Focus Areas for land-based protected areas expansion