

DRAFT BASIC ASSESSMENT REPORT

Proposed Development of a 132 kV Overhead Power
Line and Supporting Infrastructure for the Proposed
Vhuvhili Solar Photovoltaic Energy Facility, near
Secunda in the Mpumalanga Province

APPENDIX H

Additional Information

APPENDICES

Draft Basic Assessment Report: Proposed Development of a 132 kV Overhead Power Line and Supporting Infrastructure for the Proposed Vhuvhili Solar Photovoltaic Energy Facility, near Secunda in the Mpumalanga Province

H. 1: VERTEX COORDINATES OF EACH POWER LINE ROUTING ALTERNATIVE

Alt. 1 (Preferred)_Vertex Coordinates		
Vertex No.	Longitude (x)	Latitude (y)
1 (start)	29° 15' 39.34590069" E	26° 34' 15.51316776" S
2	29° 15' 39.38647702" E	26° 34' 17.88302560" S
3	29° 15' 37.22533492" E	26° 34' 20.66133717" S
4	29° 15' 39.00698327" E	26° 34' 40.01136183" S
5	29° 15' 18.87396458" E	26° 34' 40.18014228" S
6	29° 15' 05.32468475" E	26° 35' 38.40575027" S
7	29° 14' 53.31398377" E	26° 35' 52.95446144" S
8	29° 14' 58.51583840" E	26° 36' 07.83963597" S
9	29° 14' 35.43498630" E	26° 36' 23.37525237" S
10	29° 14' 20.75175453" E	26° 36' 52.09820565" S
11	29° 13' 52.58219403" E	26° 36' 52.07034645" S
12	29° 11' 40.67516751" E	26° 37' 03.69644803" S
13	29° 11' 39.26018247" E	26° 36' 57.93243979" S
14 (end)	29° 11' 25.76041139" E	26° 36' 57.98754305" S

Alt. 2_Verx Coordinates		
Vertex No.	Longitude (x)	Latitude (y)
1 (start)	29° 15' 39.34590069" E	26° 34' 15.51316776" S
2	29° 15' 39.38647702" E	26° 34' 17.88302560" S
3	29° 15' 18.87396458" E	26° 34' 40.18014228" S
4	29° 15' 05.32468475" E	26° 35' 38.40575027" S
5	29° 14' 53.31398377" E	26° 35' 52.95446144" S
6	29° 14' 58.51583840" E	26° 36' 07.83963597" S
7	29° 14' 35.43498630" E	26° 36' 23.37525237" S
8	29° 14' 20.75175453" E	26° 36' 52.09820565" S
9	29° 13' 52.58219403" E	26° 36' 52.07034645" S
10	29° 11' 18.93077020" E	26° 37' 05.64560122" S
11	29° 11' 09.07973500" E	26° 37' 13.06395698" S
12 (end)	29° 11' 04.11716516" E	26° 37' 24.57291395" S

APPENDICES

Draft Basic Assessment Report: Proposed Development of a 132 kV Overhead Power Line and Supporting Infrastructure for the Proposed Vhuvhili Solar Photovoltaic Energy Facility, near Secunda in the Mpumalanga Province

Alt. 3_Verx Coordinates		
Vertex No.	Longitude (x)	Latitude (y)
1 (start)	29° 15' 49.12692043" E	26° 33' 58.72557097" S
2	29° 15' 49.43810169" E	26° 34' 00.08167775" S
3	29° 15' 35.31536267" E	26° 34' 04.50047036" S
4	29° 15' 39.00698327" E	26° 34' 40.01136183" S
5	29° 15' 18.87396458" E	26° 34' 40.18014228" S
6	29° 15' 05.32468475" E	26° 35' 38.40575027" S
7	29° 14' 53.31398377" E	26° 35' 52.95446144" S
8	29° 14' 58.51583840" E	26° 36' 07.83963597" S
9	29° 14' 35.43498630" E	26° 36' 23.37525237" S
10	29° 14' 20.75175453" E	26° 36' 52.09820565" S
11	29° 13' 52.58219403" E	26° 36' 52.07034645" S
12	29° 11' 40.67516751" E	26° 37' 03.69644803" S
13	29° 11' 39.26018247" E	26° 36' 57.93243979" S
14 (end)	29° 11' 25.76041139" E	26° 36' 57.98754305" S

Alt. 4_Verx Coordinates		
Vertex No.	Longitude (x)	Latitude (y)
1 (start)	29° 15' 49.12692043" E	26° 33' 58.72557097" S
2	29° 15' 49.43810169" E	26° 34' 00.08167775" S
3	29° 15' 35.31536267" E	26° 34' 04.50047036" S
4	29° 15' 18.87396458" E	26° 34' 40.18014228" S
5	29° 15' 05.32468475" E	26° 35' 38.40575027" S
6	29° 14' 53.31398377" E	26° 35' 52.95446144" S
7	29° 14' 58.51583840" E	26° 36' 07.83963597" S
8	29° 14' 35.43498630" E	26° 36' 23.37525237" S
9	29° 14' 20.75175453" E	26° 36' 52.09820565" S
10	29° 13' 52.58219403" E	26° 36' 52.07034645" S
11	29° 11' 18.93077020" E	26° 37' 05.64560122" S
12	29° 11' 09.07973500" E	26° 37' 13.06395698" S
13 (end)	29° 11' 04.11716516" E	26° 37' 24.57291395" S

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Draft Basic Assessment Report: Proposed Development of a 132 kV Overhead Power Line and Supporting Infrastructure for the Proposed Vhuvhili Solar Photovoltaic Energy Facility, near Secunda in the Mpumalanga Province

H. 2: SCREENING TOOL REPORTS

NOTE: Screening tool reports are provided for:

1. The 200 m wide assessed (combined) corridor for all four alternatives
2. Alternative 1 (preferred): 200 m wide corridor
3. Alternative 2: 200 m wide corridor
4. Alternative 3: 200 m wide corridor
5. Alternative 4: 200 m wide corridor

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

EIA Reference number:

Project name: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF

Project title: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF

Date screening report generated: 28/10/2022 13:07:55

Applicant: Vhuvhili Solar RF (Pty) Ltd

Compiler: CSIR

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

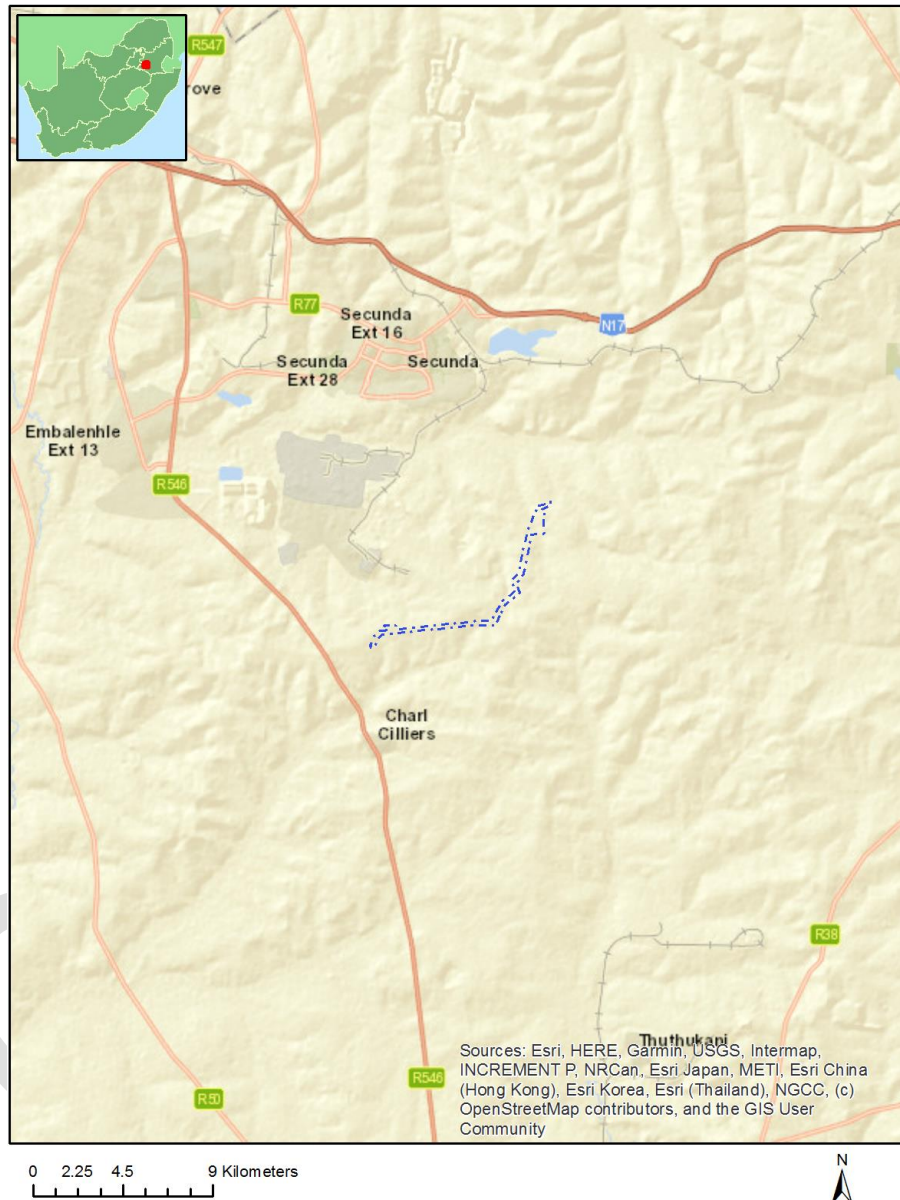
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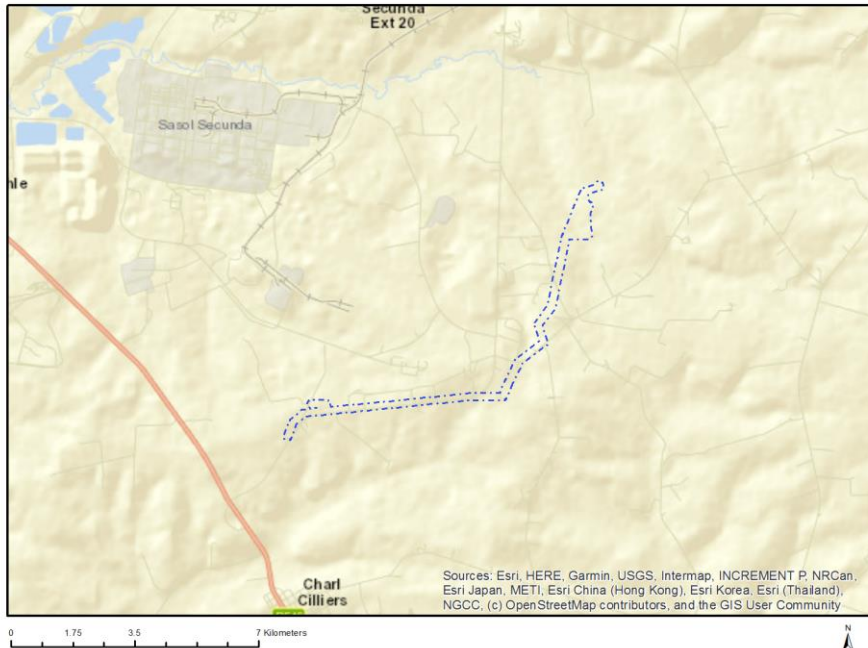
Proposed Project Location

Orientation map 1: General location

General Orientation: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF



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	VLAKSPRUIT	292	0	26°35'40.69S	29°15'58.14E	Farm
2	VAN TONDRSHOEK	317	0	26°38'30.64S	29°10'9.54E	Farm
3		565	0	26°32'52.86S	29°14'51.77E	Farm
4	BOSJESSPRUIT	291	0	26°35'43.69S	29°12'5.52E	Farm
5	KNOPPIESFONTEIN	313	0	26°37'44.47S	29°15'47.7E	Farm
6	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	Farm
7	GROOTVLEI	293	0	26°32'38.06S	29°17'5.86E	Farm
8	BRANDWACHT	316	0	26°38'15.09S	29°13'17.29E	Farm
9	VLAKSPRUIT	292	15	26°35'7.54S	29°14'38.8E	Farm Portion
10	BOSJESSPRUIT	291	10	26°36'58.13S	29°11'14.65E	Farm Portion
11	VLAKSPRUIT	292	14	26°34'51.19S	29°14'51.71E	Farm Portion
12	VLAKSPRUIT	292	18	26°36'32.15S	29°14'54.35E	Farm Portion
13	BRANDWACHT	316	6	26°37'7.2S	29°12'52.31E	Farm Portion
14	VAN TONDRSHOEK	317	12	26°37'33.81S	29°10'55.55E	Farm Portion
15	BOSJESSPRUIT	291	6	26°36'41.13S	29°13'30.67E	Farm Portion
16	VLAKSPRUIT	292	2	26°36'7.6S	29°14'30.23E	Farm Portion
17	VLAKSPRUIT	292	16	26°36'7.93S	29°15'25.36E	Farm Portion
18	BRANDWACHT	316	3	26°37'16.48S	29°13'57.45E	Farm Portion
19	BRANDWACHT	316	8	26°37'8.84S	29°12'23.07E	Farm Portion
20	BRANDWACHT	316	7	26°37'7.16S	29°13'19.87E	Farm Portion
21	VLAKSPRUIT	292	13	26°35'11.39S	29°15'56.37E	Farm Portion
22	VLAKSPRUIT	292	0	26°35'15.34S	29°15'33.52E	Farm Portion
23	GROOTVLEI	293	20	26°33'41.64S	29°15'46.7E	Farm Portion
24	VAN TONDRSHOEK	317	2	26°37'54.62S	29°11'23.05E	Farm Portion

25	VLAKSPRUIT	292	19	26°35'20.31S	29°15'18.42E	Farm Portion
26	KNOPPIESFONTEIN	313	0	26°37'32.36S	29°15'5.99E	Farm Portion
27		584	0	26°32'56.84S	29°14'54.27E	Farm Portion
28	BOSJESSPRUIT	291	11	26°36'42.91S	29°12'7.97E	Farm Portion
29	BOSJESSPRUIT	291	13	26°36'44.75S	29°12'35.56E	Farm Portion
30	VLAKSPRUIT	292	3	26°35'29.67S	29°14'40.6E	Farm Portion
31	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	Farm Portion
32	BRANDWACHT	316	9	26°37'17.3S	29°12'0.55E	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	14/12/16/3/3/2/754	Solar PV	Approved	22.6
2	14/12/16/3/3/2/754	Solar PV	Approved	22.6

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	Implication

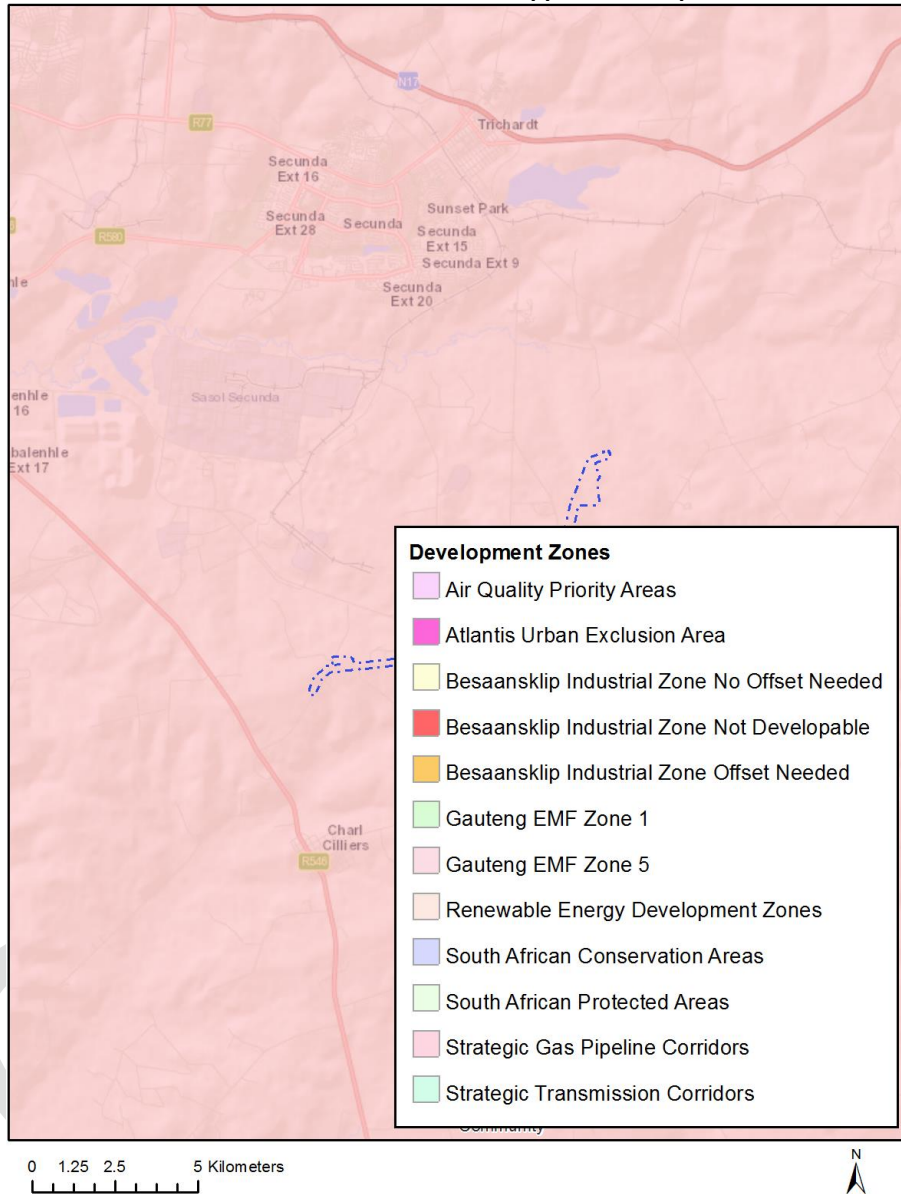
¹ “development footprint”, means the area within the site on which the development will take place and includes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

prohibition	
Air Quality-Highveld Priority Area	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/HIGHVELD_PRIORITY_AREA_AQMP.pdf
Strategic Gas Pipeline Corridors -Phase 8: Rompco Pipeline Corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf

OFFICIAL

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

Project Location: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF



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
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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.

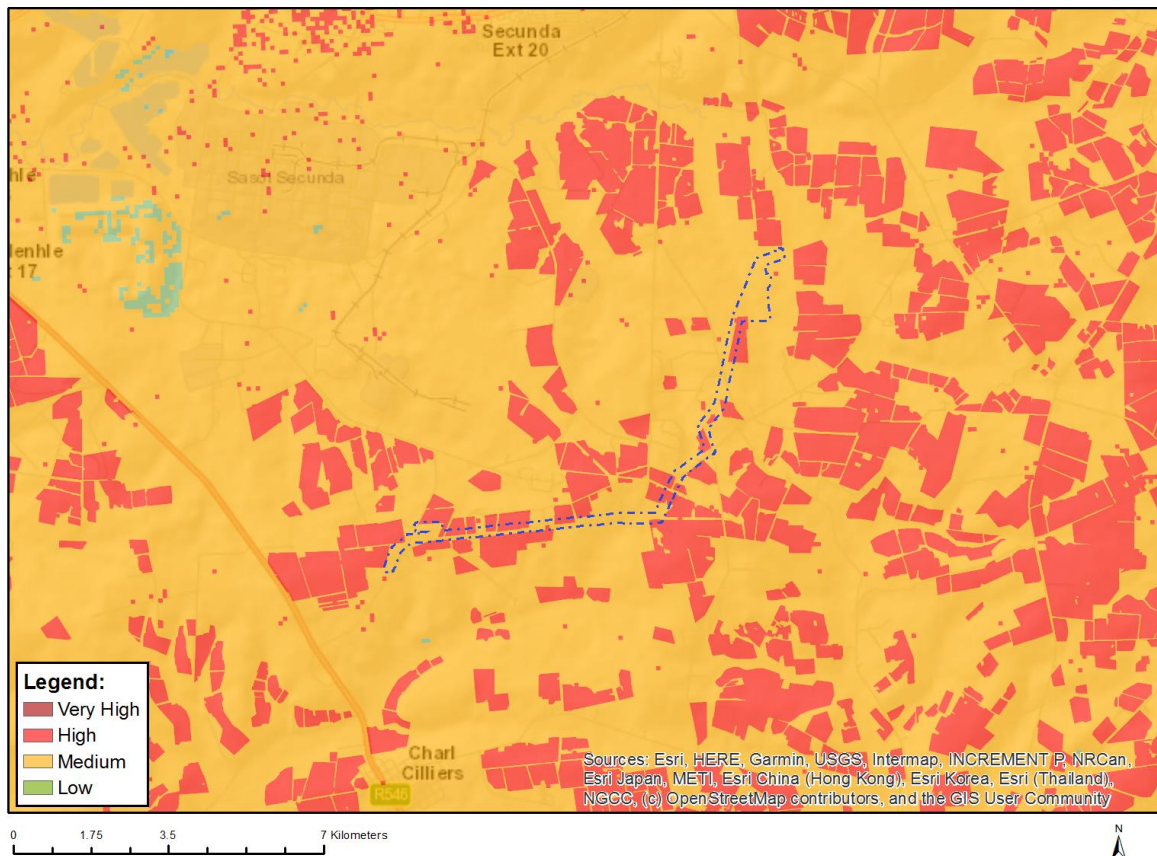
N o	Special ist assess ment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Agriculture Assessment Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted 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

	ent	
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 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

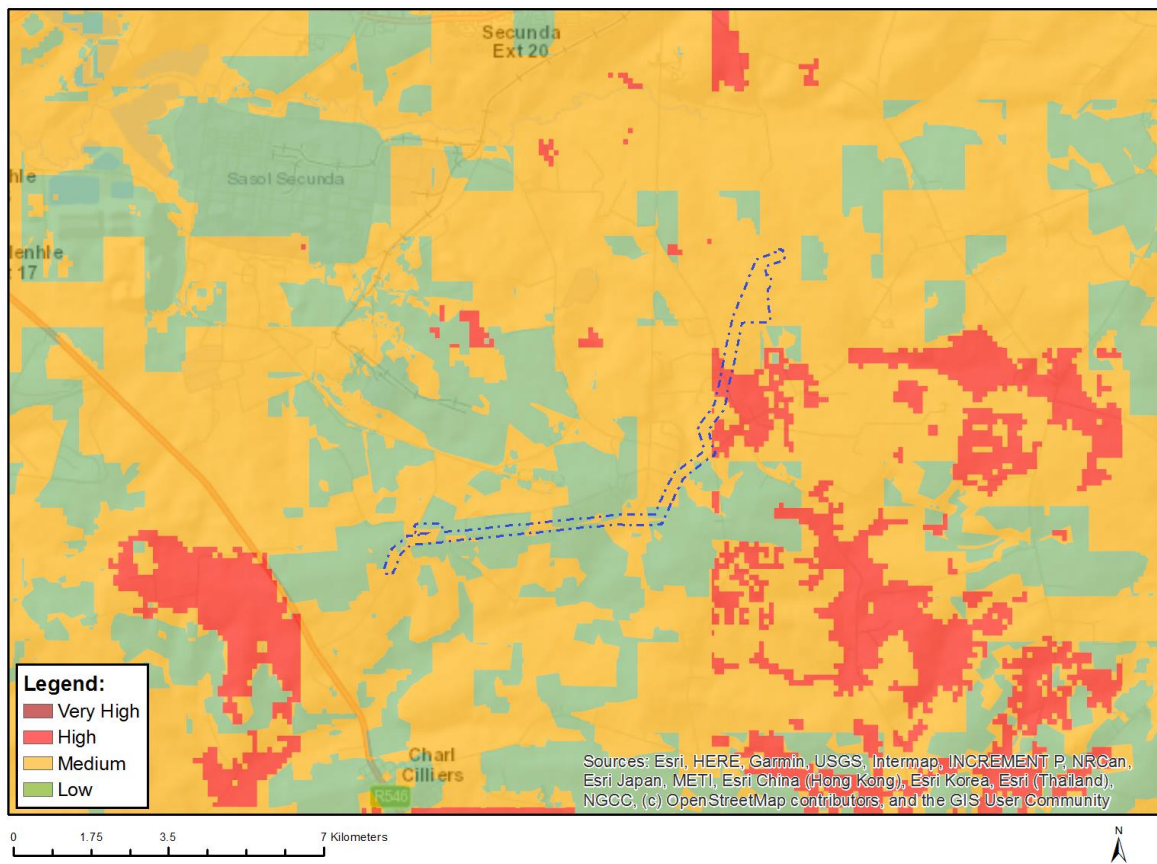


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



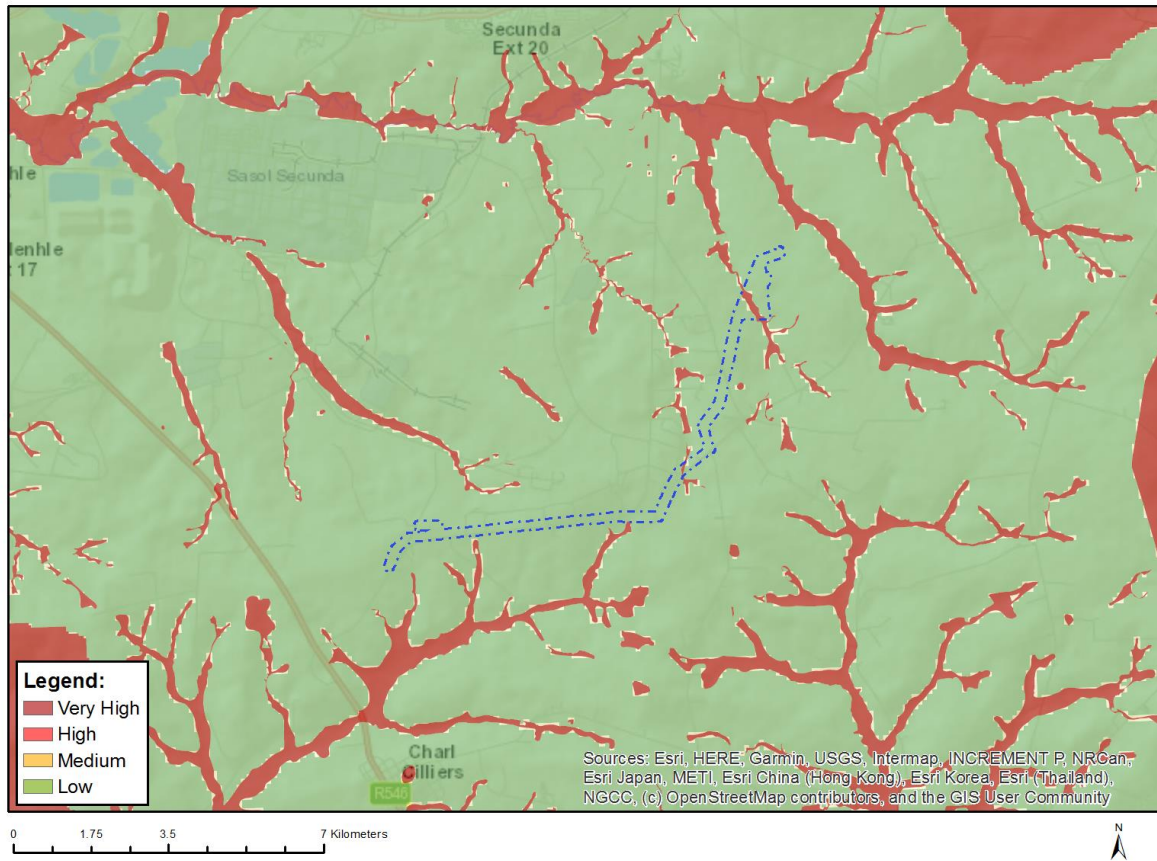
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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 ranivorus
Low	Subject to confirmation
Medium	Aves-Circus ranivorus
Medium	Aves-Sagittarius serpentarius
Medium	Aves-Eupodotis senegalensis
Medium	Insecta-Lepidochrysops procera
Medium	Mammalia-Crocidura maquassiensis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

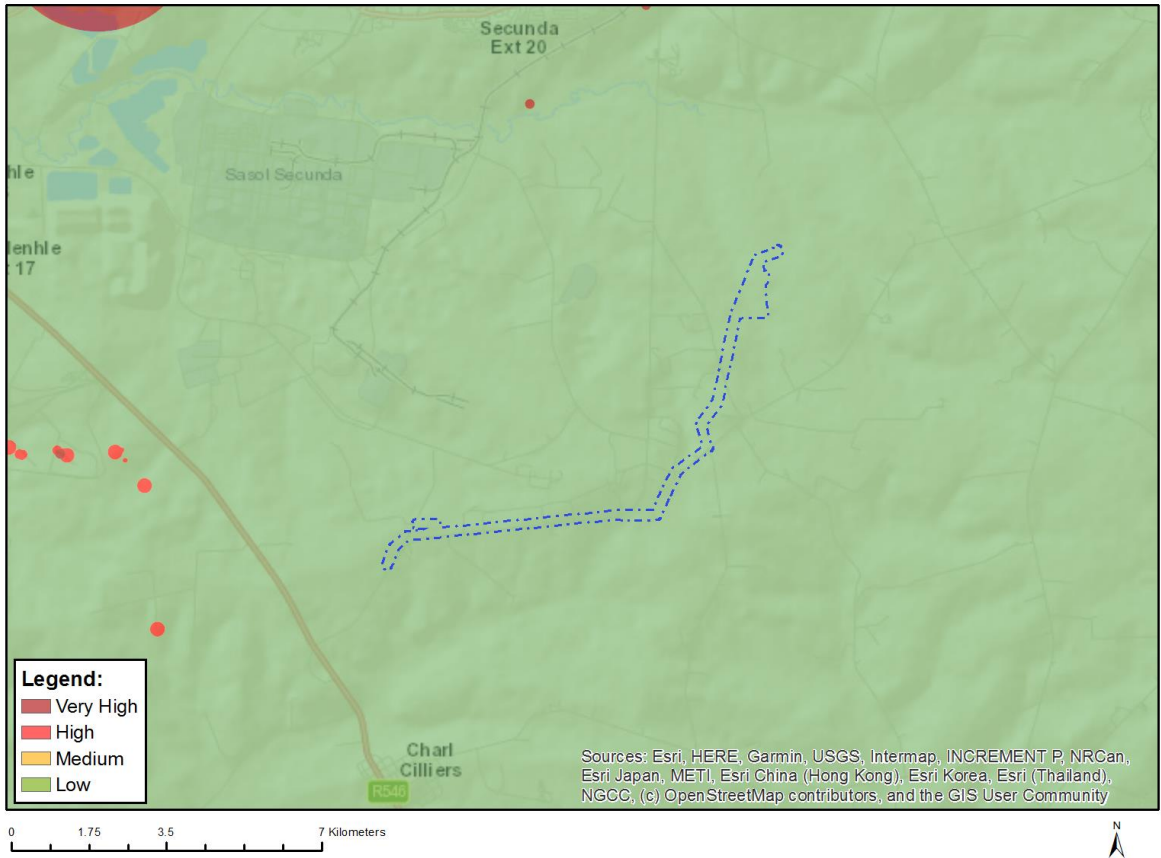


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands and Estuaries

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

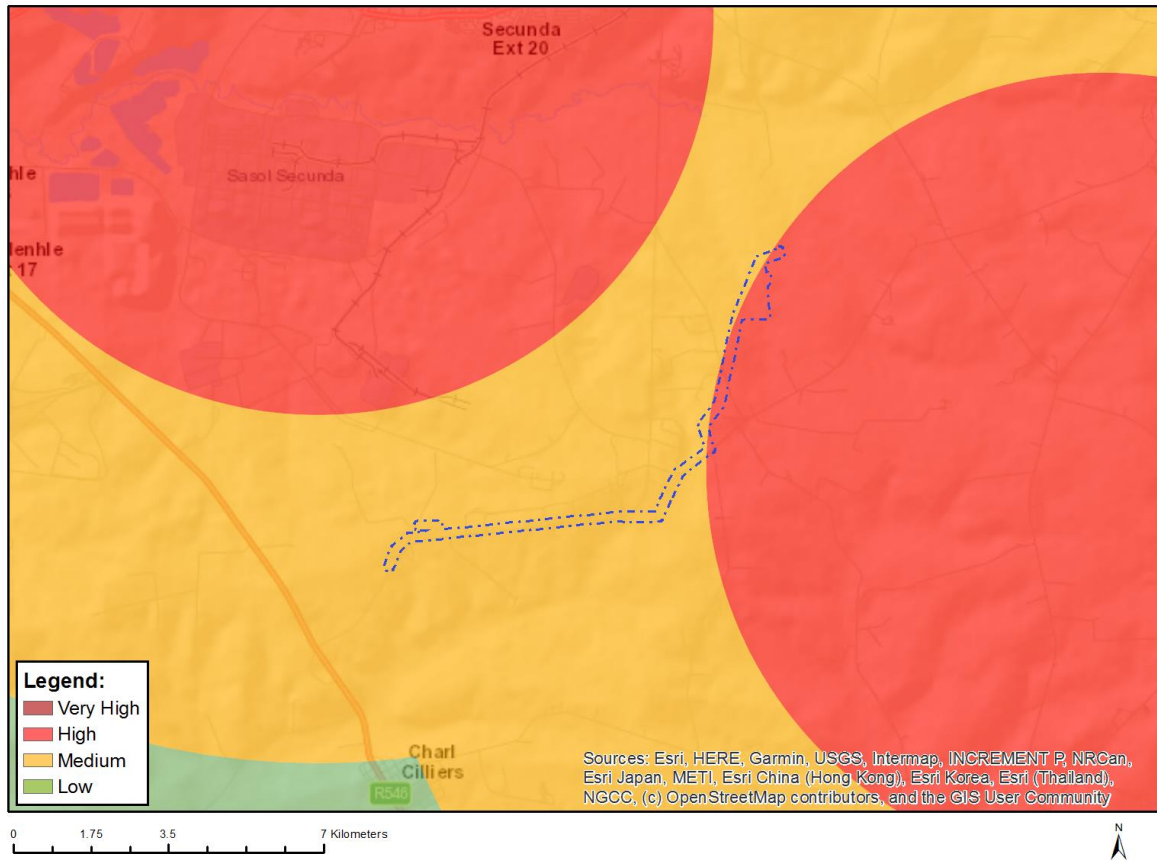


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

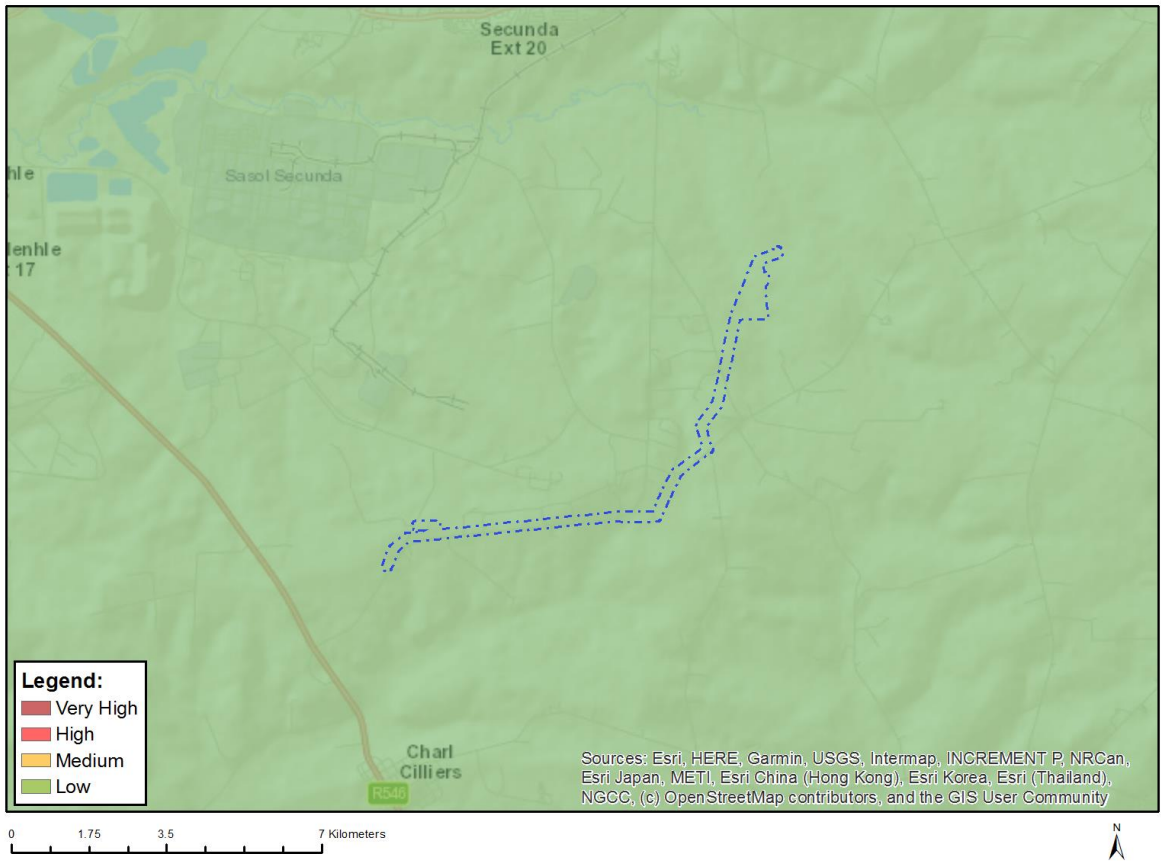


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

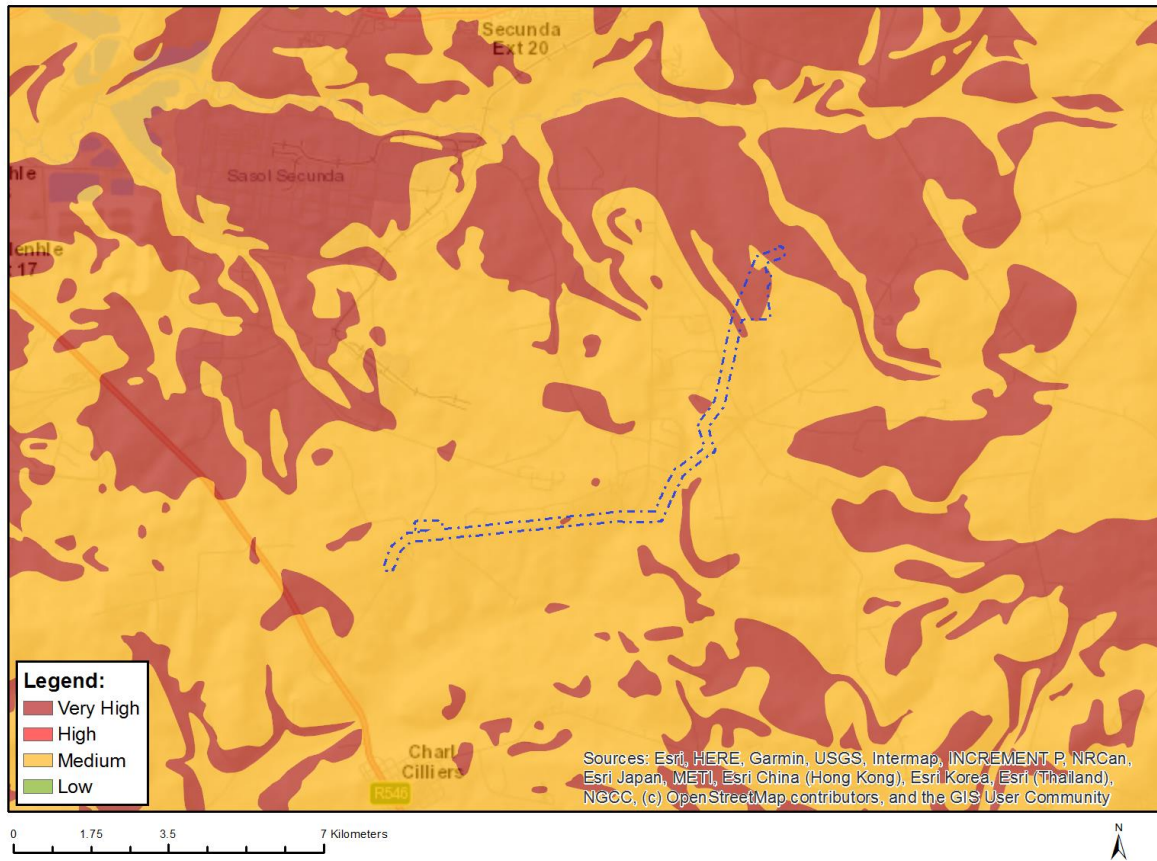


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

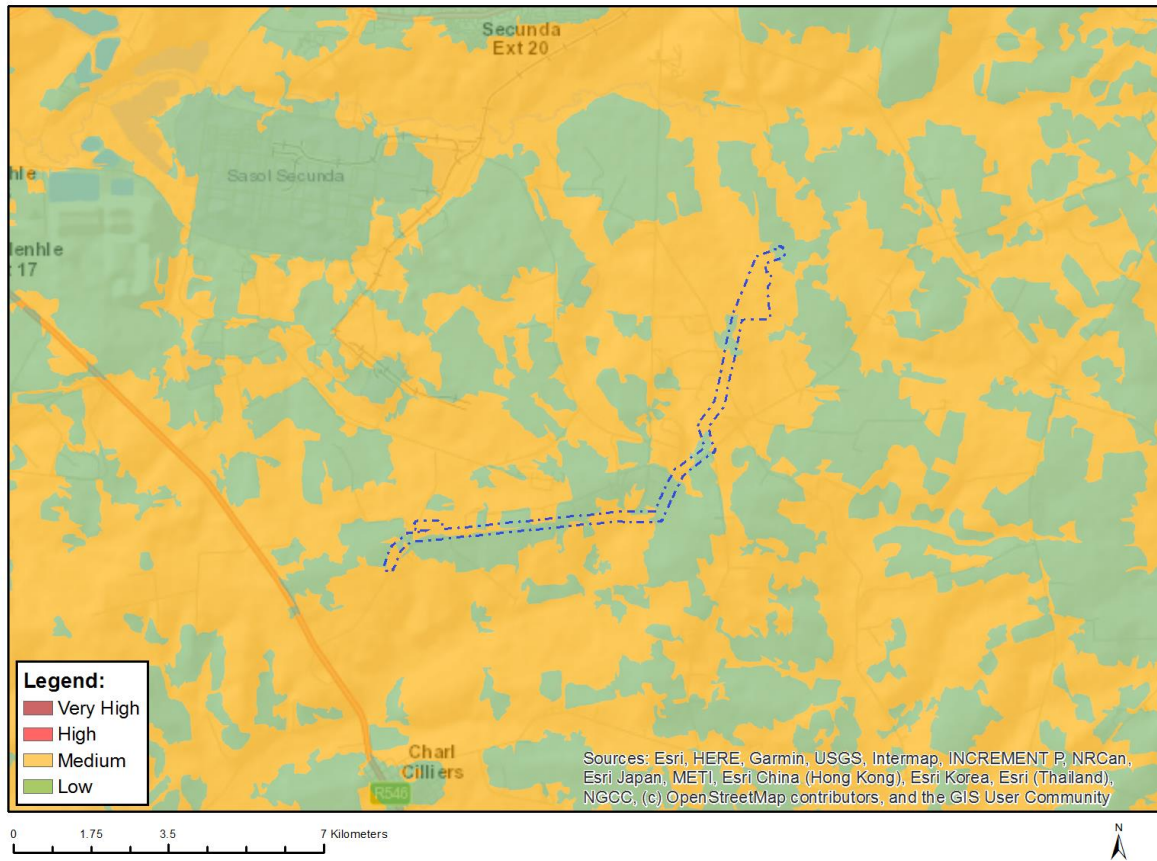


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Features with a Medium paleontological sensitivity
Very High	Features with a Very High paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



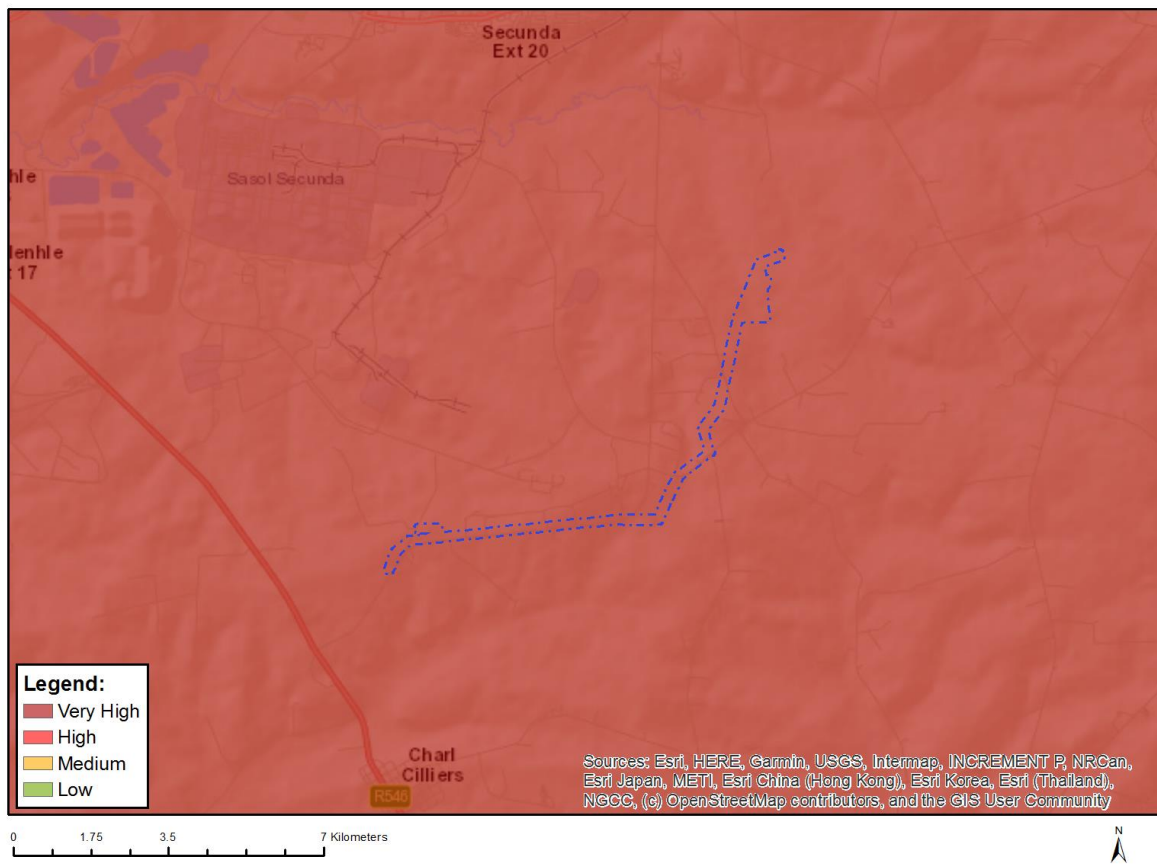
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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
Medium	Sensitive species 1252
Medium	Sensitive species 691
Medium	Pachycarpus suaveolens

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	Protected Areas Expansion Strategy
Very High	Vulnerable ecosystem

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

EIA Reference number:

Project name: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF: Alternative 1

Project title: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF: Alternative 1

Date screening report generated: 10/10/2022 13:02:20

Applicant: Vhuvhili Solar RF (Pty) Ltd

Compiler: CSIR

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

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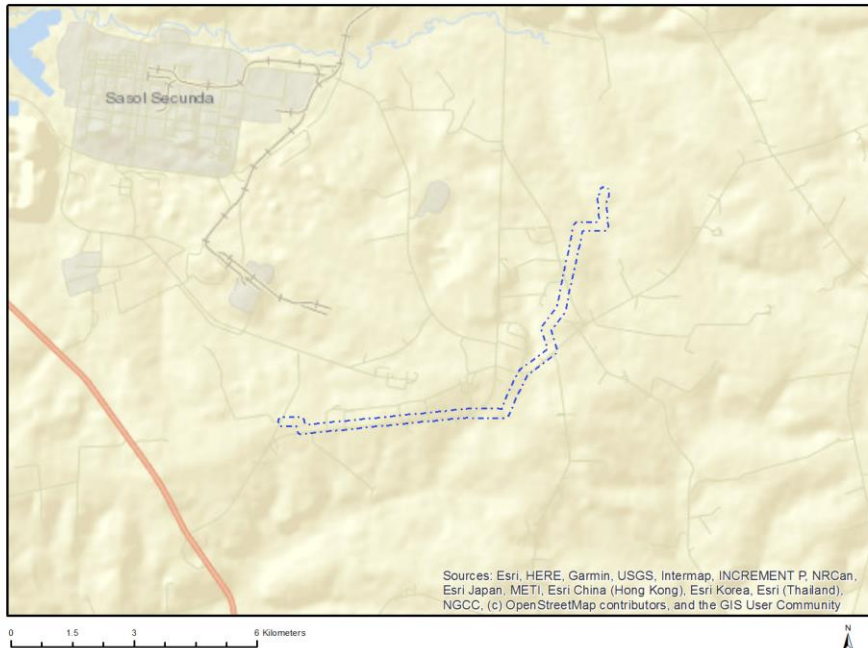
Proposed Project Location

Orientation map 1: General location

General Orientation: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF: Alternative 1



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	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	Farm
2	VLAKSPRUIT	292	0	26°35'40.69S	29°15'58.14E	Farm
3	KNOPPIESFONTEIN	313	0	26°37'44.47S	29°15'47.7E	Farm
4	BRANDWACHT	316	0	26°38'15.09S	29°13'17.29E	Farm
5	VAN TONDRSHOEK	317	0	26°38'30.64S	29°10'9.54E	Farm
6		565	0	26°32'52.86S	29°14'51.77E	Farm
7	BOSJESSPRUIT	291	0	26°35'43.69S	29°12'5.52E	Farm
8	VLAKSPRUIT	292	15	26°35'7.54S	29°14'38.8E	Farm Portion
9	BOSJESSPRUIT	291	10	26°36'58.13S	29°11'14.65E	Farm Portion
10	VLAKSPRUIT	292	14	26°34'51.19S	29°14'51.71E	Farm Portion
11	VLAKSPRUIT	292	18	26°36'32.15S	29°14'54.35E	Farm Portion
12	BRANDWACHT	316	6	26°37'7.2S	29°12'52.31E	Farm Portion
13	BRANDWACHT	316	9	26°37'17.3S	29°12'0.55E	Farm Portion
14	VLAKSPRUIT	292	19	26°35'20.31S	29°15'18.42E	Farm Portion
15	KNOPPIESFONTEIN	313	0	26°37'32.36S	29°15'5.99E	Farm Portion
16		584	0	26°32'56.84S	29°14'54.27E	Farm Portion
17	BOSJESSPRUIT	291	6	26°36'41.13S	29°13'30.67E	Farm Portion
18	VLAKSPRUIT	292	2	26°36'7.6S	29°14'30.23E	Farm Portion
19	VLAKSPRUIT	292	16	26°36'7.93S	29°15'25.36E	Farm Portion
20	BRANDWACHT	316	3	26°37'16.48S	29°13'57.45E	Farm Portion
21	BRANDWACHT	316	8	26°37'8.84S	29°12'23.07E	Farm Portion
22	BRANDWACHT	316	7	26°37'7.16S	29°13'19.87E	Farm Portion
23	VLAKSPRUIT	292	13	26°35'11.39S	29°15'56.37E	Farm Portion
24	VLAKSPRUIT	292	0	26°35'15.34S	29°15'33.52E	Farm Portion
25	VAN TONDRSHOEK	317	2	26°37'54.62S	29°11'23.05E	Farm Portion

26	BOSJESSPRUIT	291	11	26°36'42.91S	29°12'7.97E	Farm Portion
27	BOSJESSPRUIT	291	13	26°36'44.75S	29°12'35.56E	Farm Portion
28	VLAESPRIIT	292	3	26°35'29.67S	29°14'40.6E	Farm Portion
29	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	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	14/12/16/3/3/2/754	Solar PV	Approved	22.6
2	14/12/16/3/3/2/754	Solar PV	Approved	22.6

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.

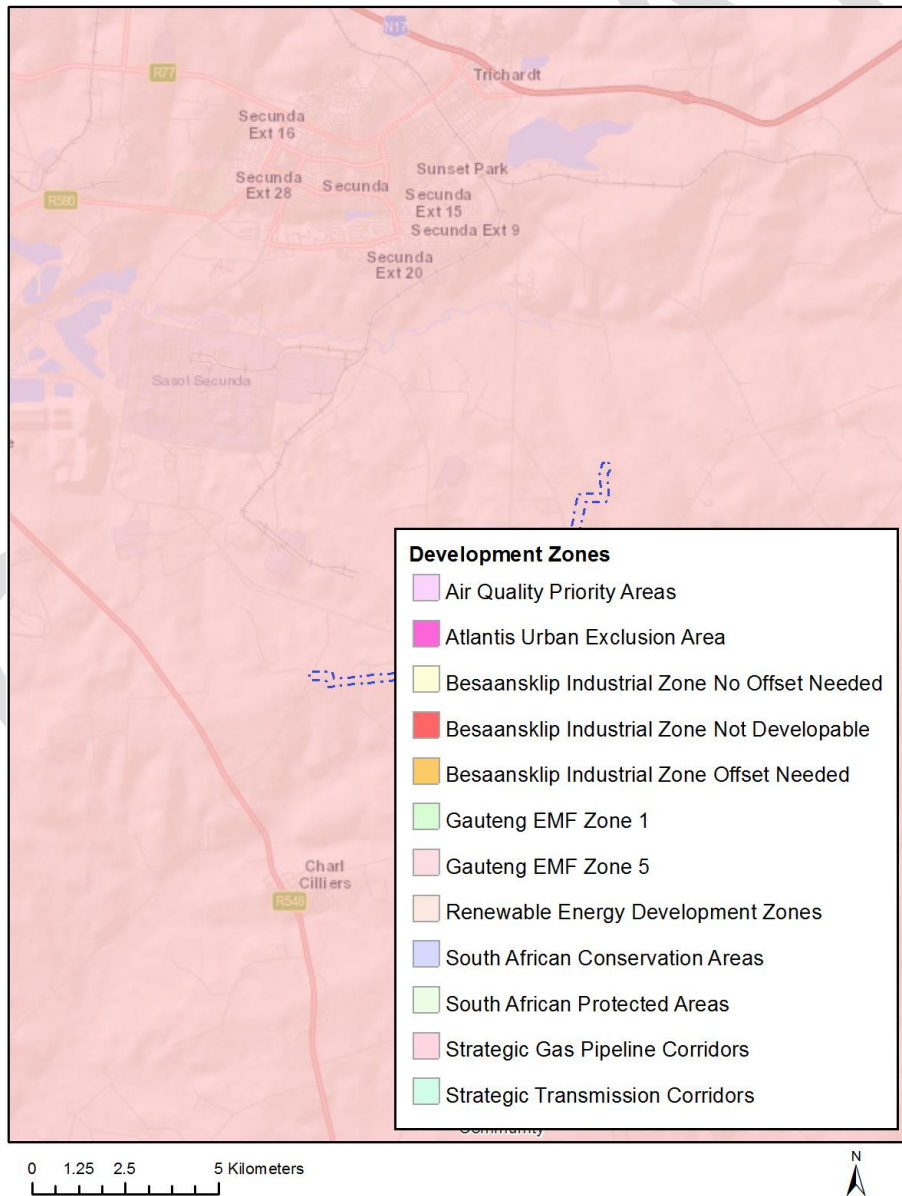
Incentive, restriction or prohibition	Implication
Air Quality-	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/HIGHVELD_PRIORITY_AREA_AQMP.pdf

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.

Highveld Priority Area	
Strategic Gas Pipeline Corridors -Phase 8: Rompco Pipeline Corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf

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

Project Location: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF: Alternative 1



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.

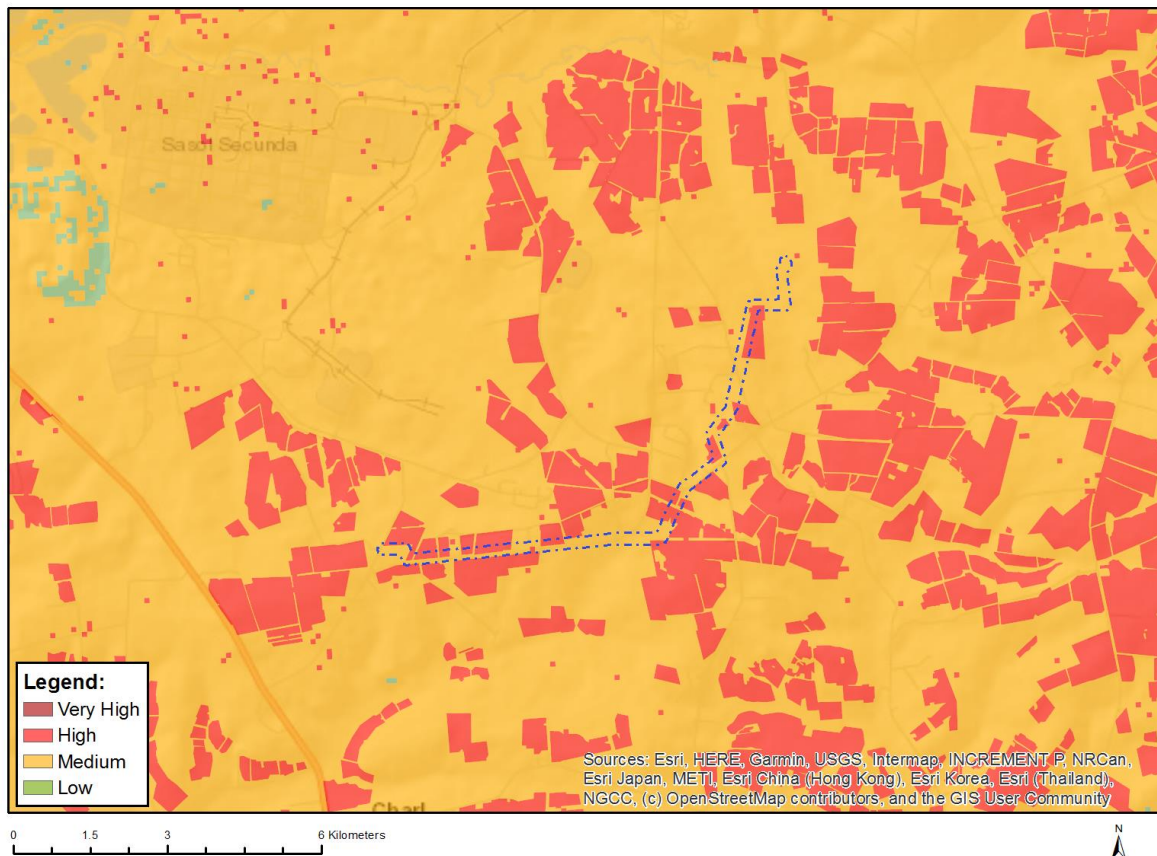
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Agriculture Assessment Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted 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

	ent	
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 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

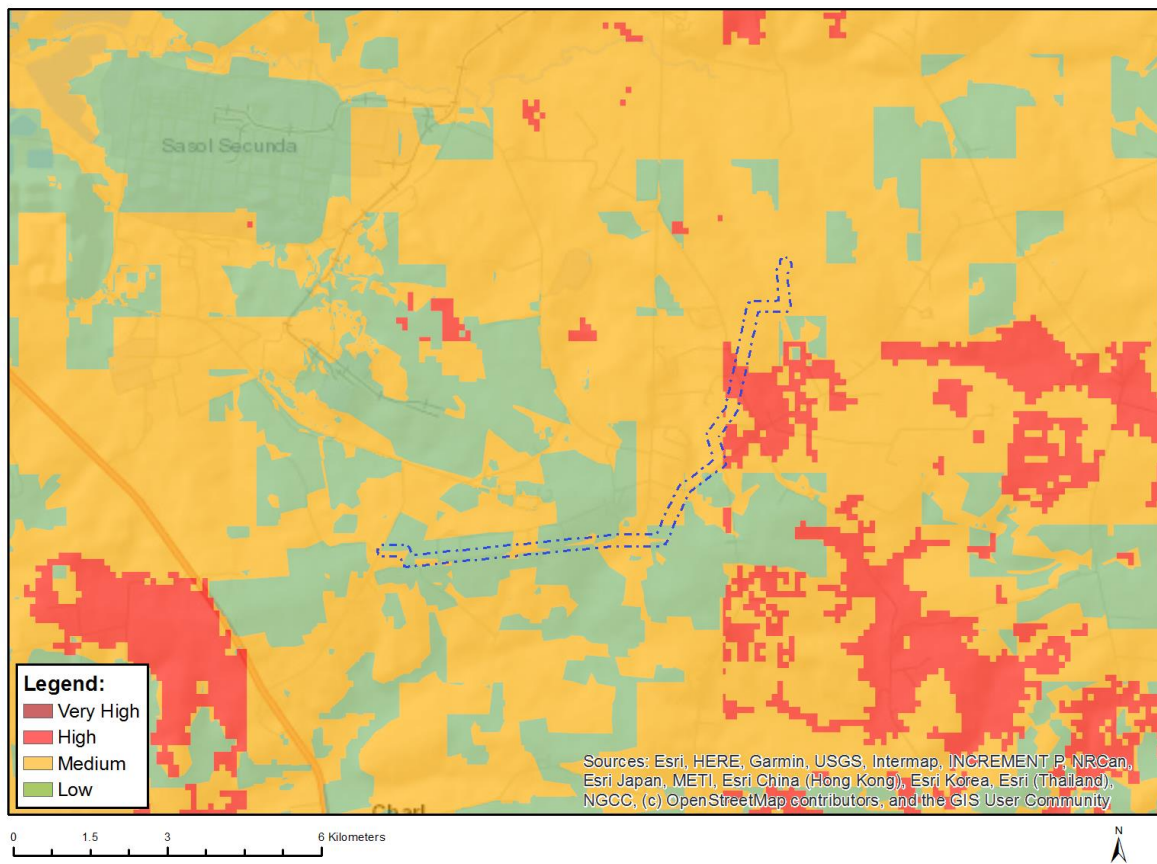


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



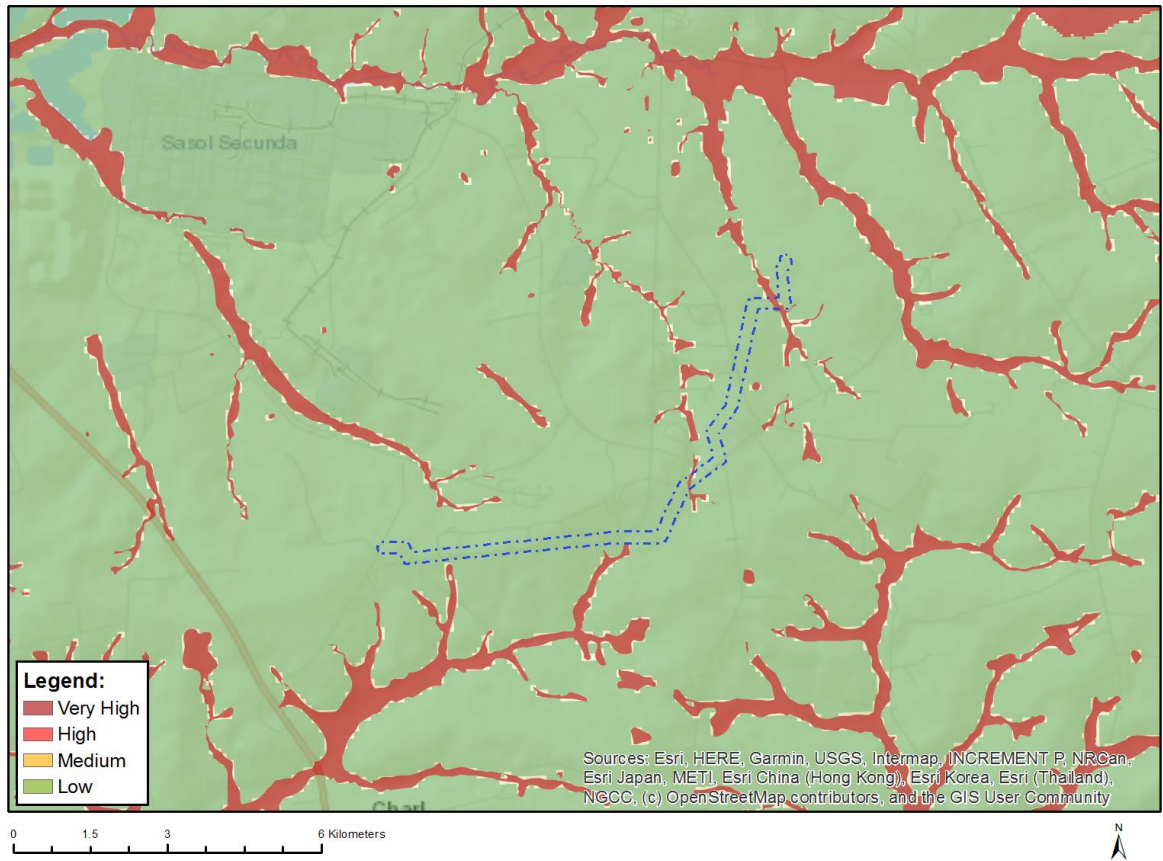
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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 ranivorus
Low	Subject to confirmation
Medium	Aves-Circus ranivorus
Medium	Aves-Sagittarius serpentarius
Medium	Aves-Eupodotis senegalensis
Medium	Insecta-Lepidochrysops procera
Medium	Mammalia-Crocidura maquassiensis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

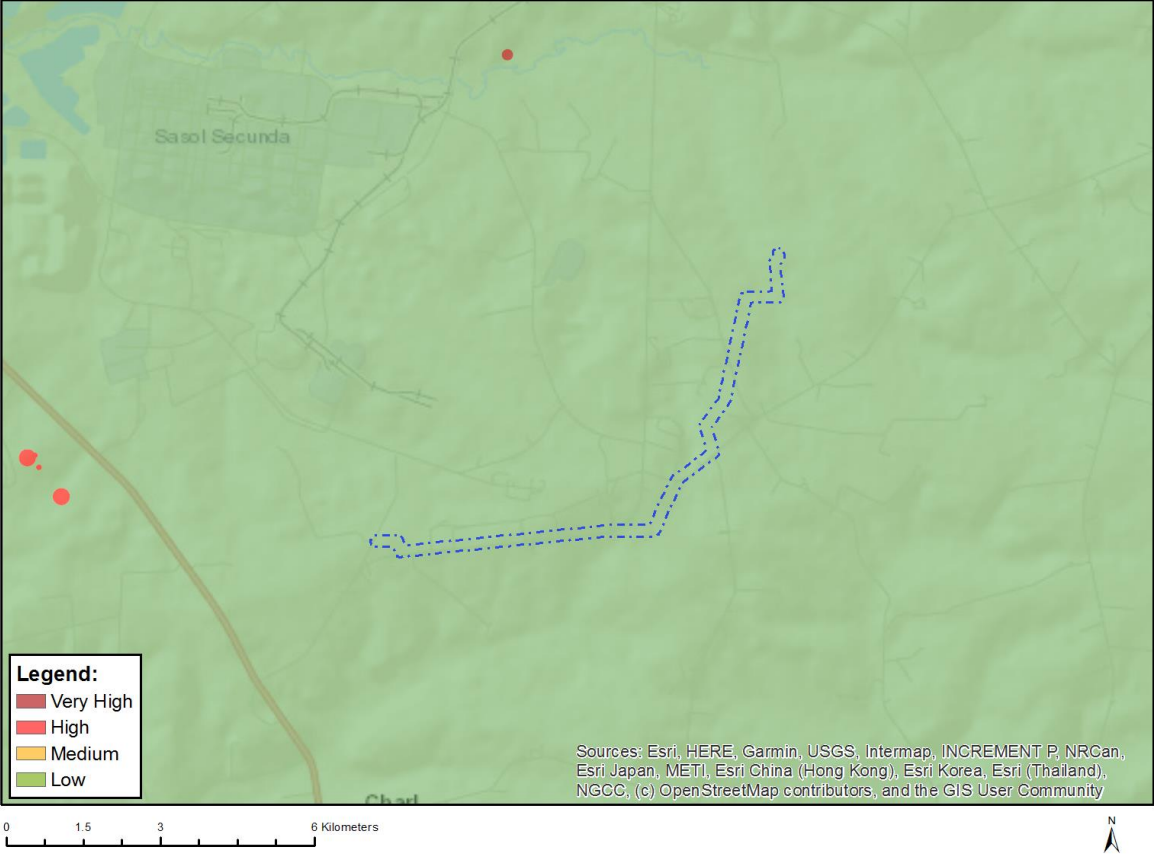


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands and Estuaries

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

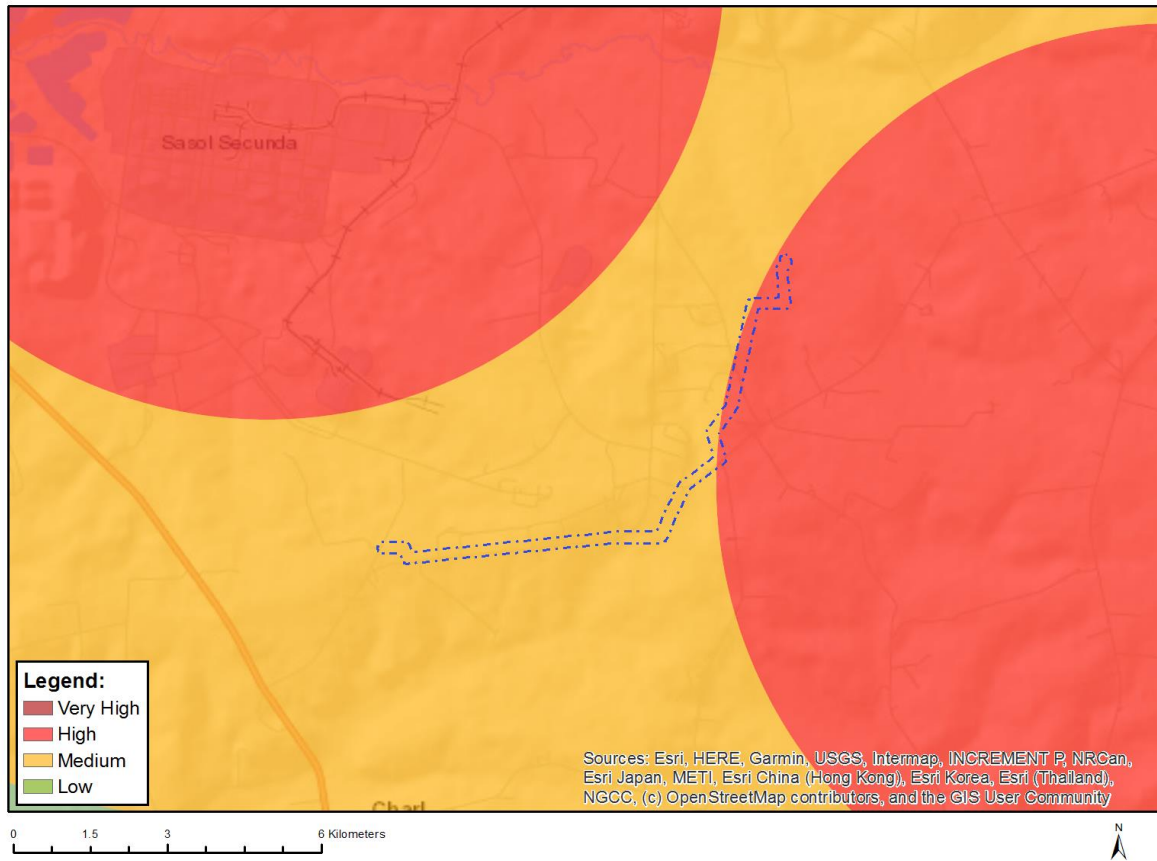


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

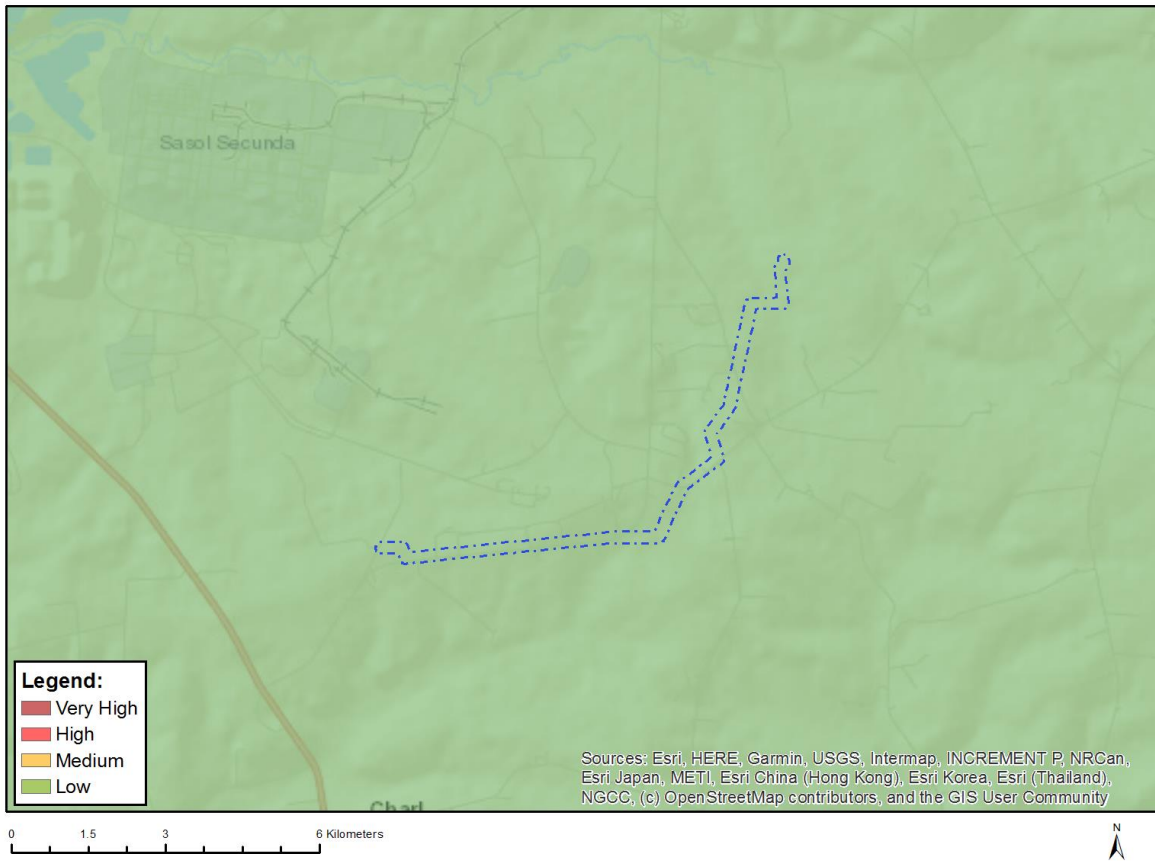


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

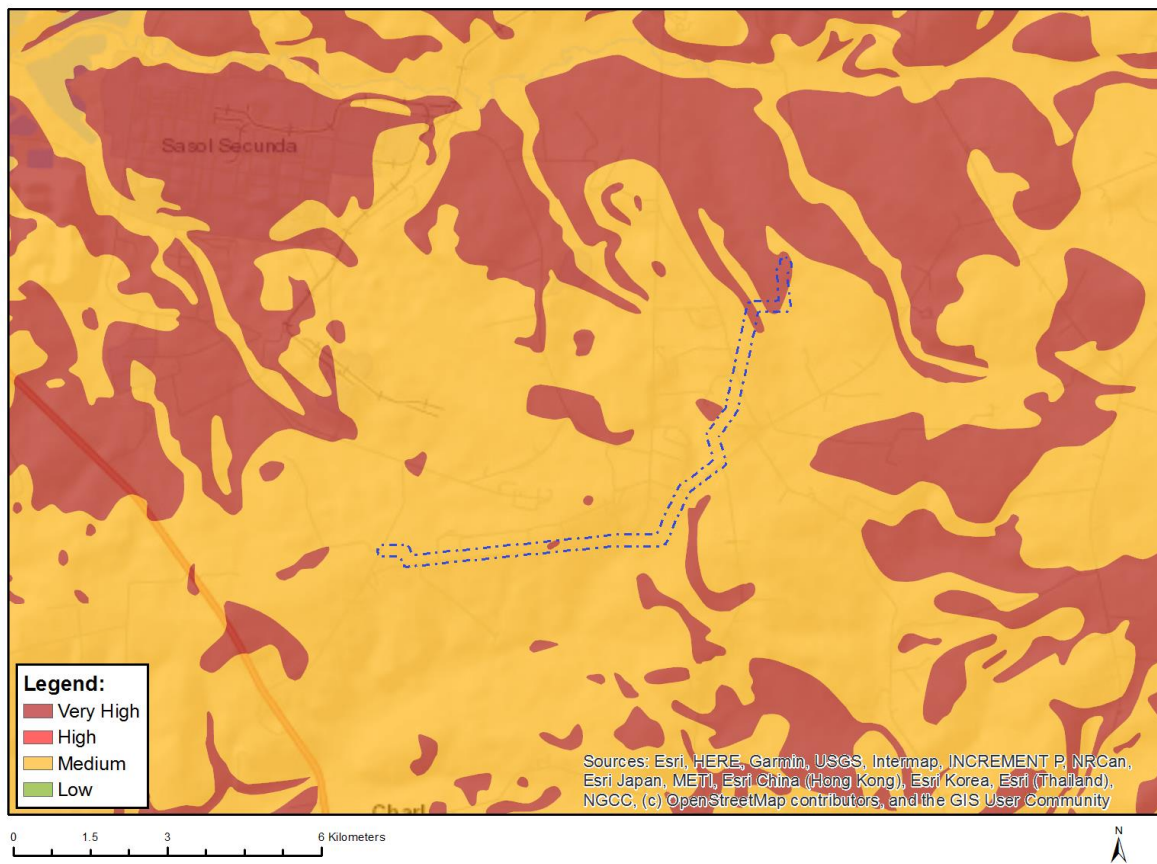


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

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)
Medium	Features with a Medium paleontological sensitivity
Very High	Features with a Very High paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



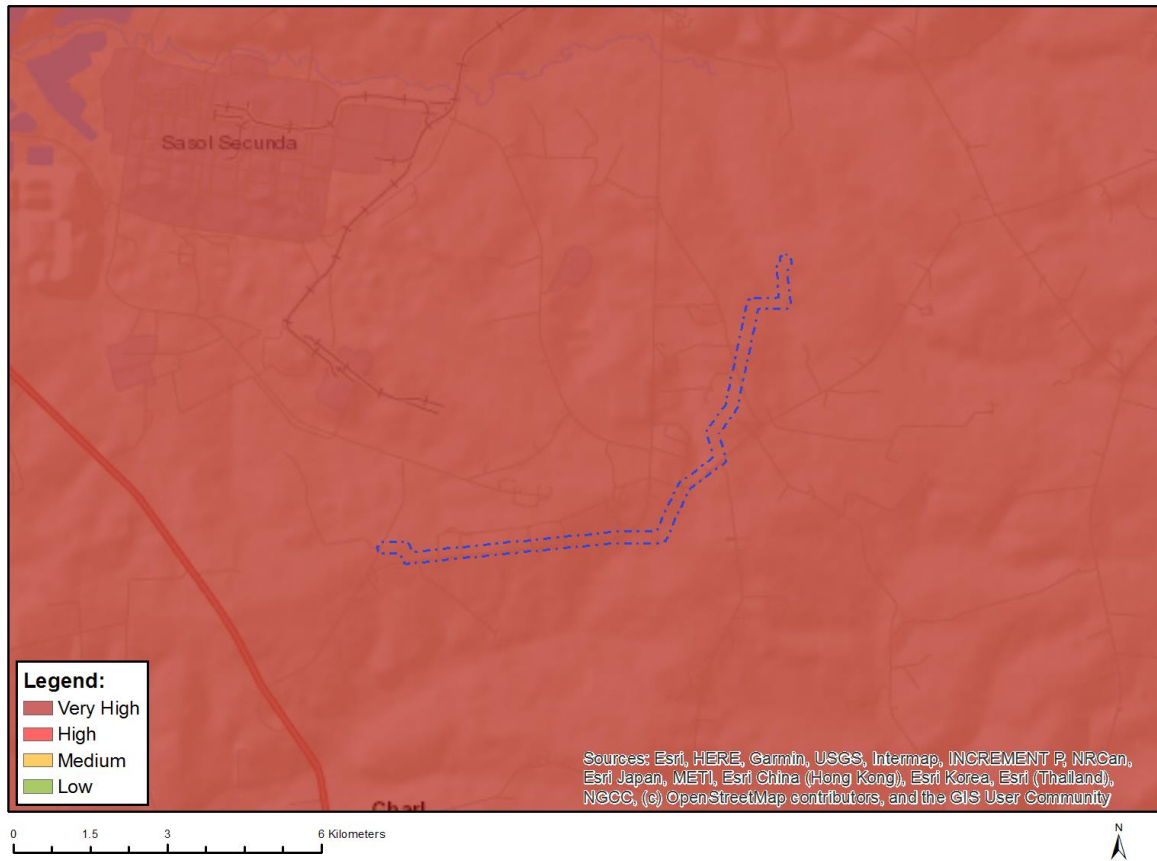
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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	Sensitive species 1252
Medium	Sensitive species 691
Medium	Pachycarpus suaveolens

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	Protected Areas Expansion Strategy
Very High	Vulnerable ecosystem

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

EIA Reference number:

Project name: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili EF: Alternative 2

Project title: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili EF: Alternative 2

Date screening report generated: 10/10/2022 11:18:12

Applicant: Vhuvhili Solar RF (Pty) Ltd

Compiler: CSIR

Compiler signature:
.....

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

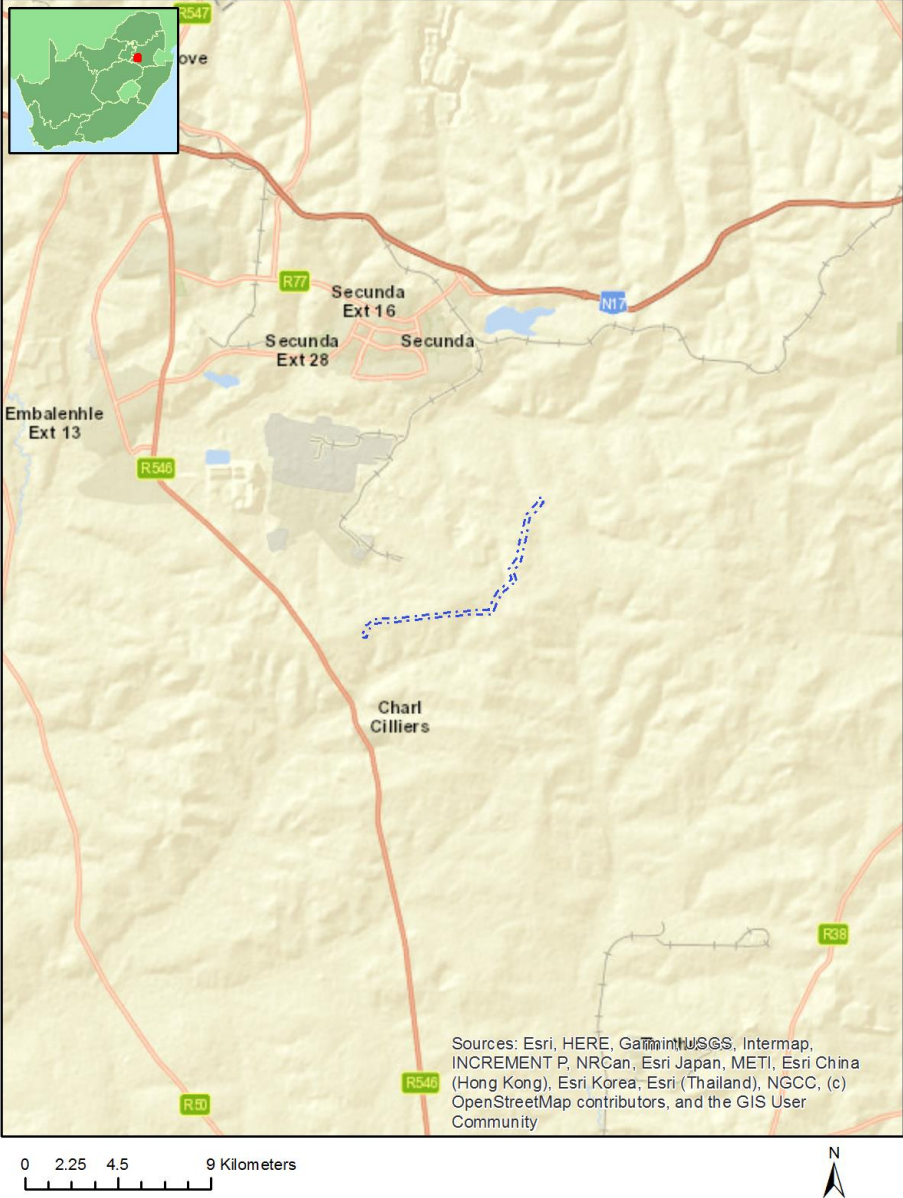
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Map of proposed site and relevant area(s)	4
Cadastral details of the proposed site	4
Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area	5
Environmental Management Frameworks relevant to the application	5
Environmental screening results and assessment outcomes	5
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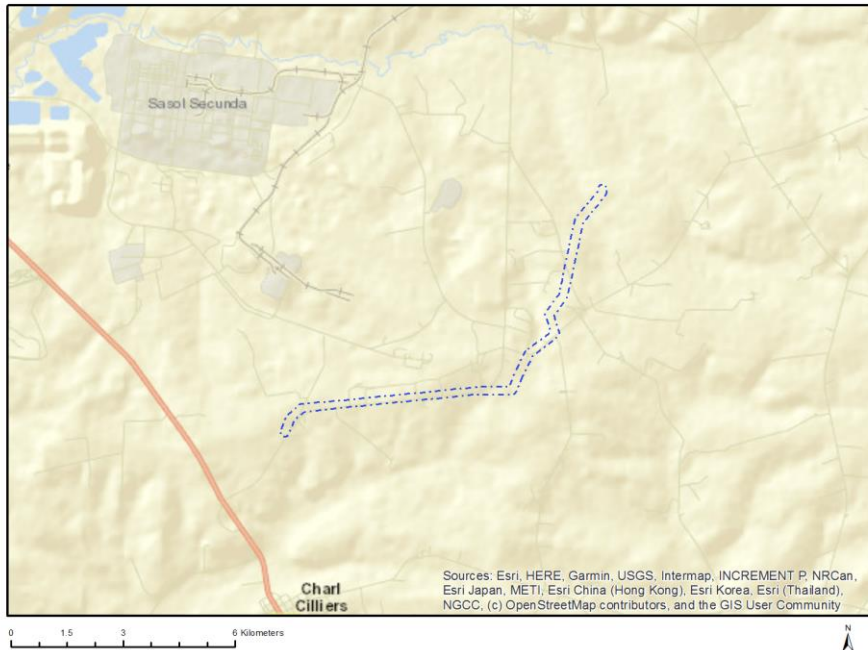
Proposed Project Location

Orientation map 1: General location

General Orientation: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili EF: Alternative 2



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	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	Farm
2	KNOPPIESFONTEIN	313	0	26°37'44.47S	29°15'47.7E	Farm
3	BOSJESSPRUIT	291	0	26°35'43.69S	29°12'5.52E	Farm
4	BRANDWACHT	316	0	26°38'15.09S	29°13'17.29E	Farm
5	VAN TONDRERSHOEK	317	0	26°38'30.64S	29°10'9.54E	Farm
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7	VLAKSPRUIT	292	0	26°35'40.69S	29°15'58.14E	Farm
8	BOSJESSPRUIT	291	11	26°36'42.91S	29°12'7.97E	Farm Portion
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15	BRANDWACHT	316	8	26°37'8.84S	29°12'23.07E	Farm Portion
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	TONDERSHOEK					
26	VLAKSPRUIT	292	19	26°35'20.31S	29°15'18.42E	Farm Portion
27	KNOPPIESFONTEIN	313	0	26°37'32.36S	29°15'5.99E	Farm Portion
28		584	0	26°32'56.84S	29°14'54.27E	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	14/12/16/3/3/2/754	Solar PV	Approved	22.6
2	14/12/16/3/3/2/754	Solar PV	Approved	22.6

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.

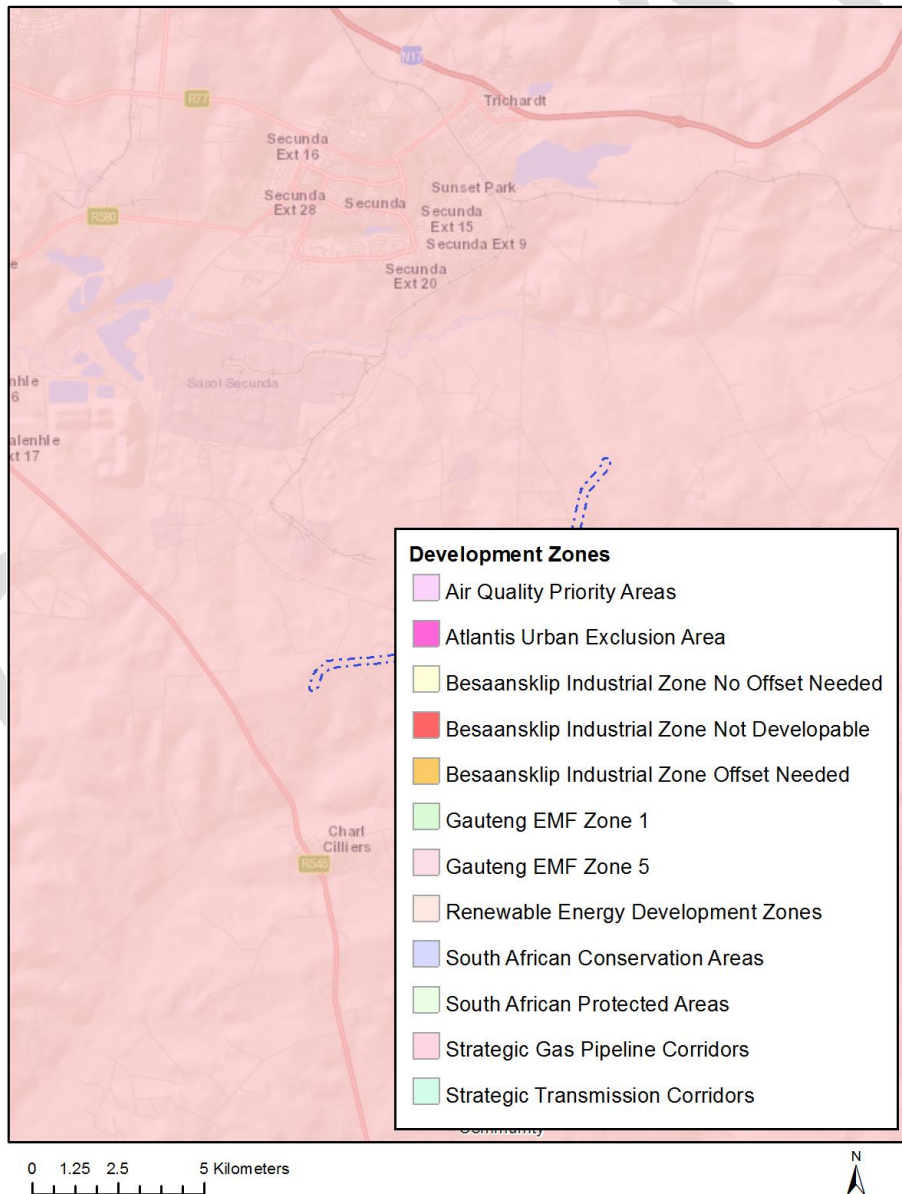
Incentive, restriction or prohibition	Implication
Air Quality-	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/HIGHVELD_PRIORITY_AREA_AQMP.pdf

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.

Highveld Priority Area	
Strategic Gas Pipeline Corridors -Phase 8: Rompco Pipeline Corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf

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

Project Location: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili EF: Alternative 2



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.

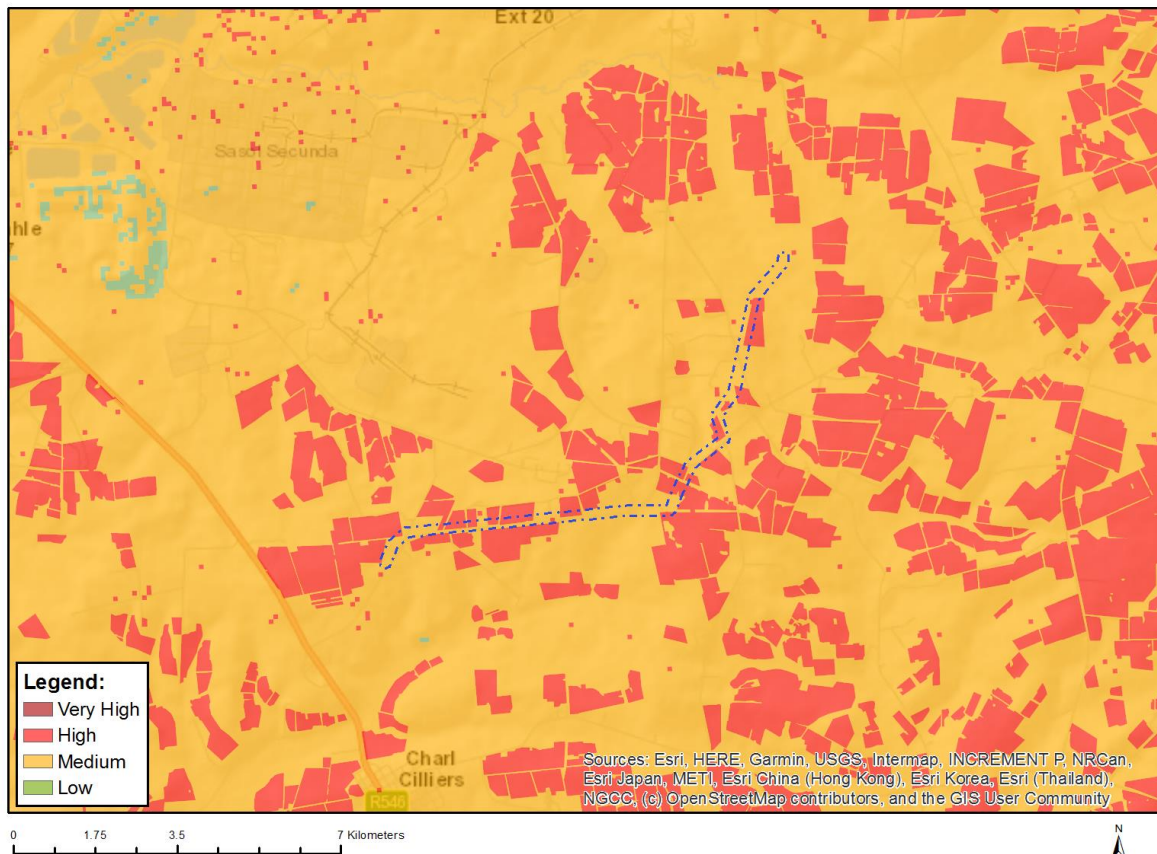
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Agriculture Assessment Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted 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

	ent	
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 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

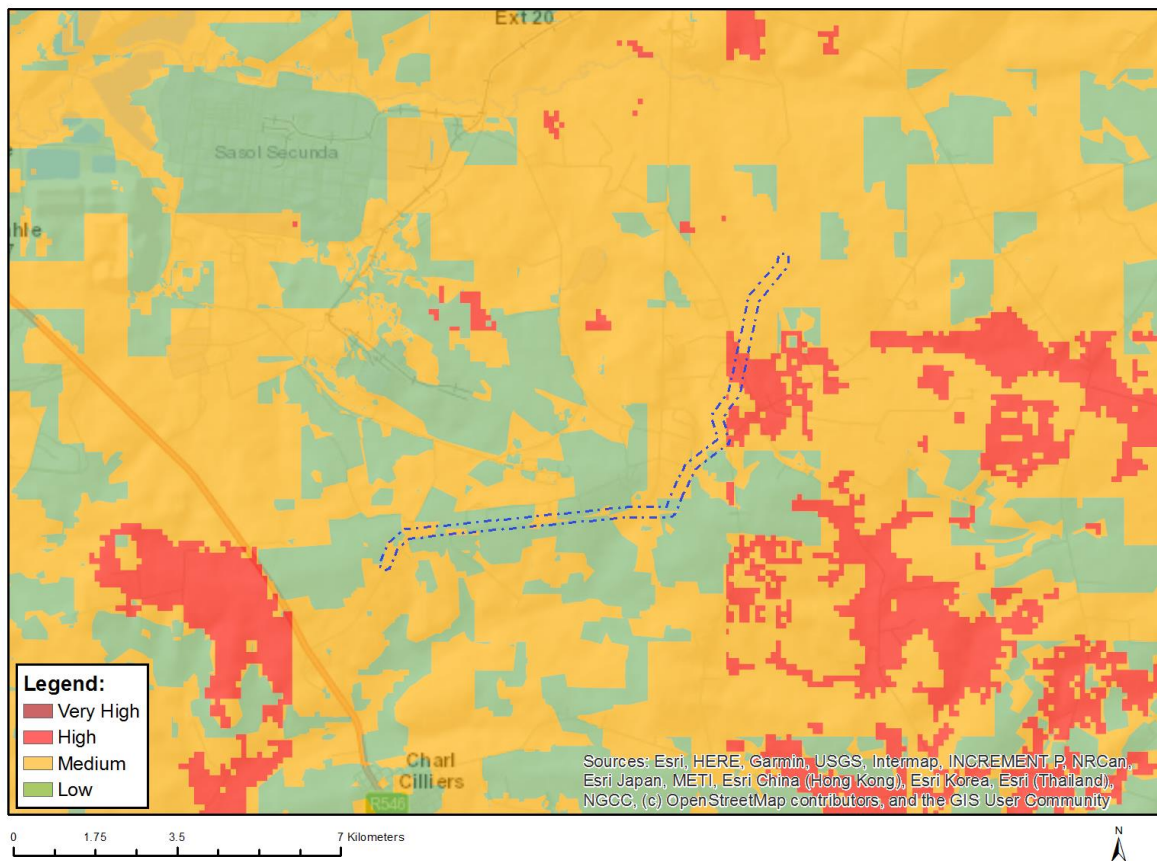


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



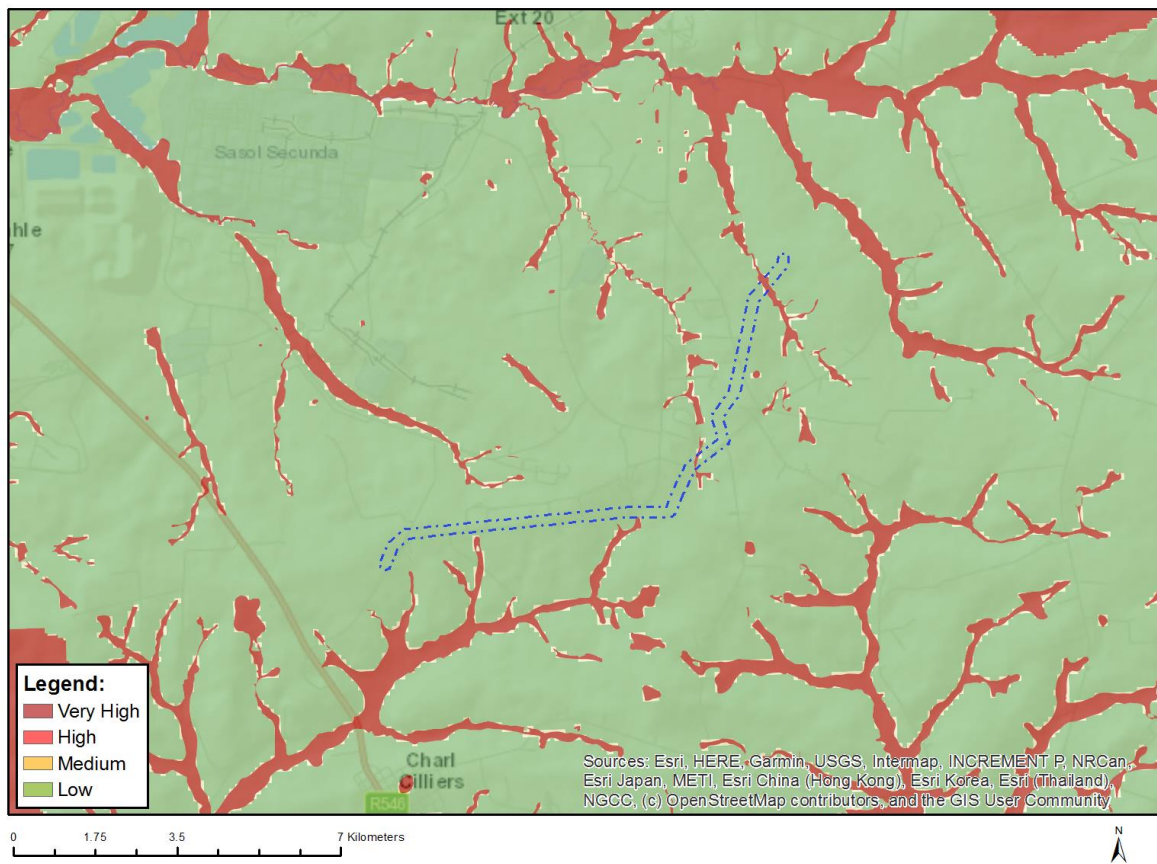
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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Circus ranivorus
Low	Subject to confirmation
Medium	Aves-Circus ranivorus
Medium	Aves-Sagittarius serpentarius
Medium	Aves-Eupodotis senegalensis
Medium	Insecta-Lepidochrysops procera
Medium	Mammalia-Crocidura maquassiensis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

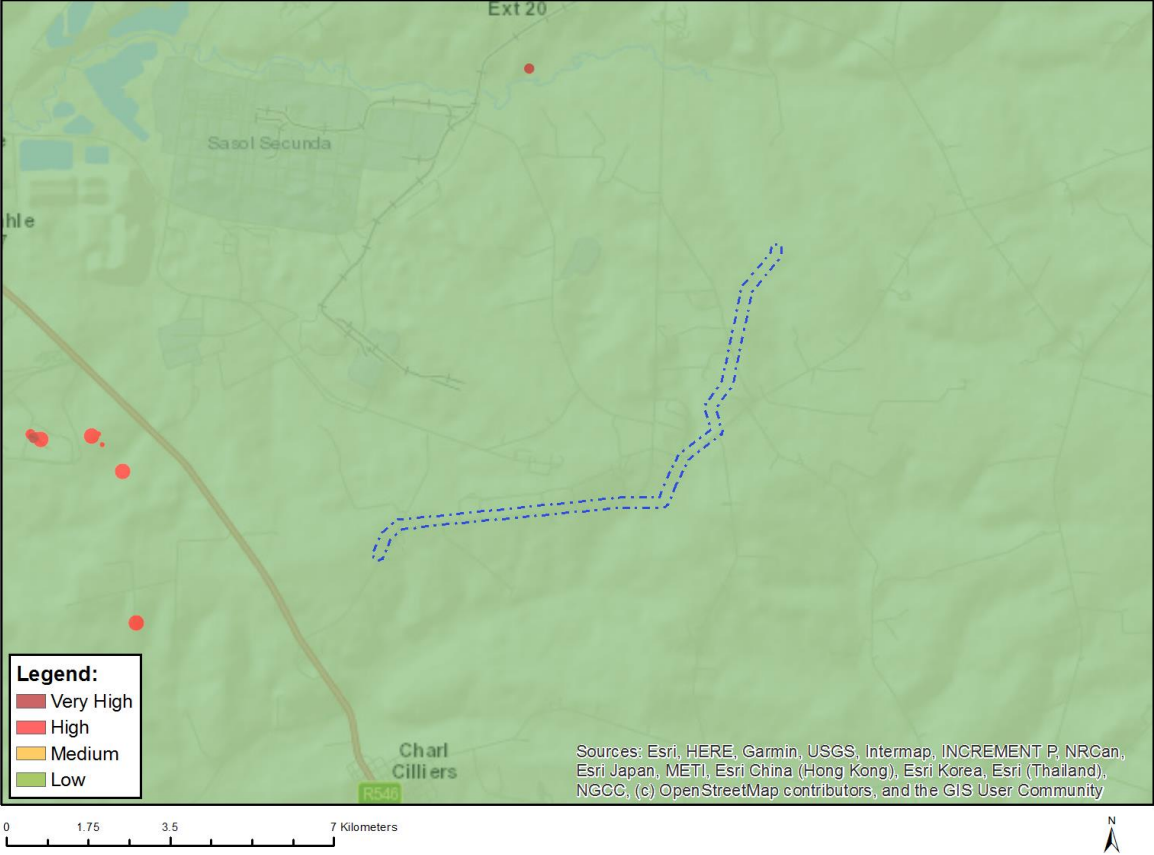


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands and Estuaries

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

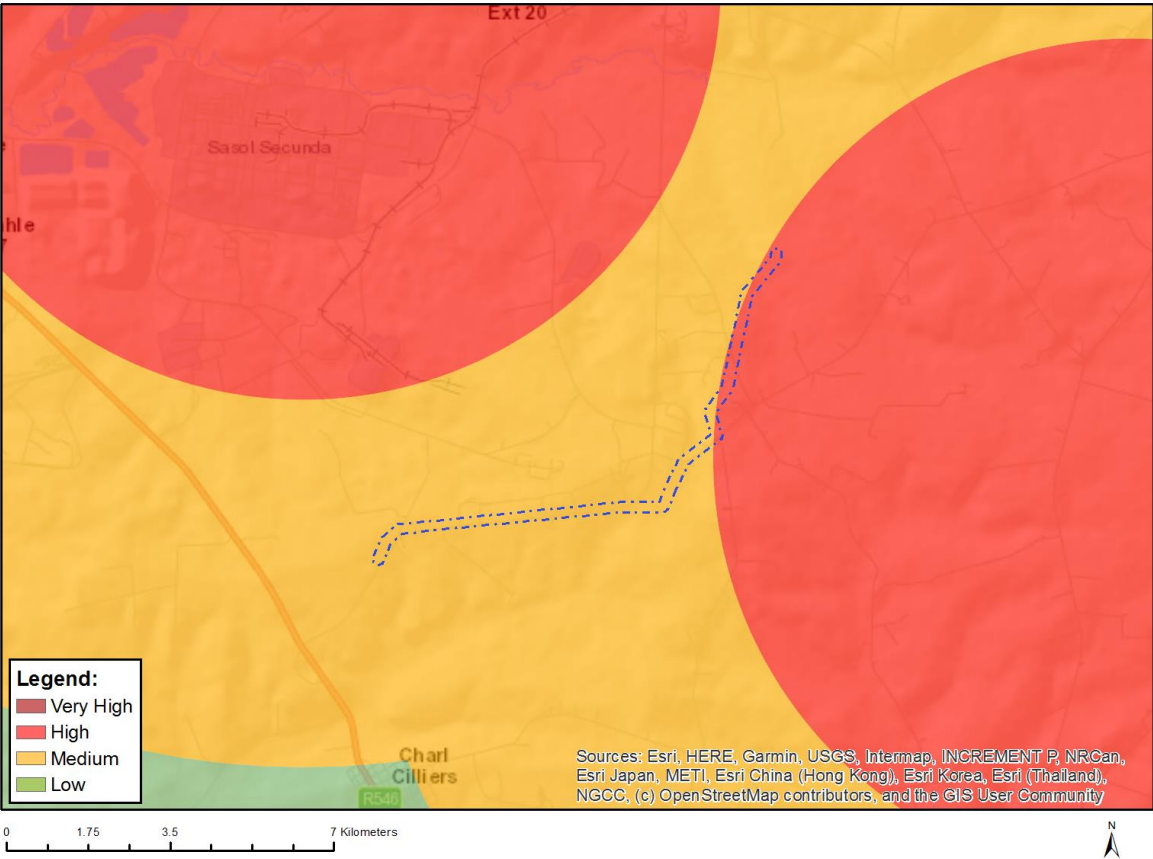


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

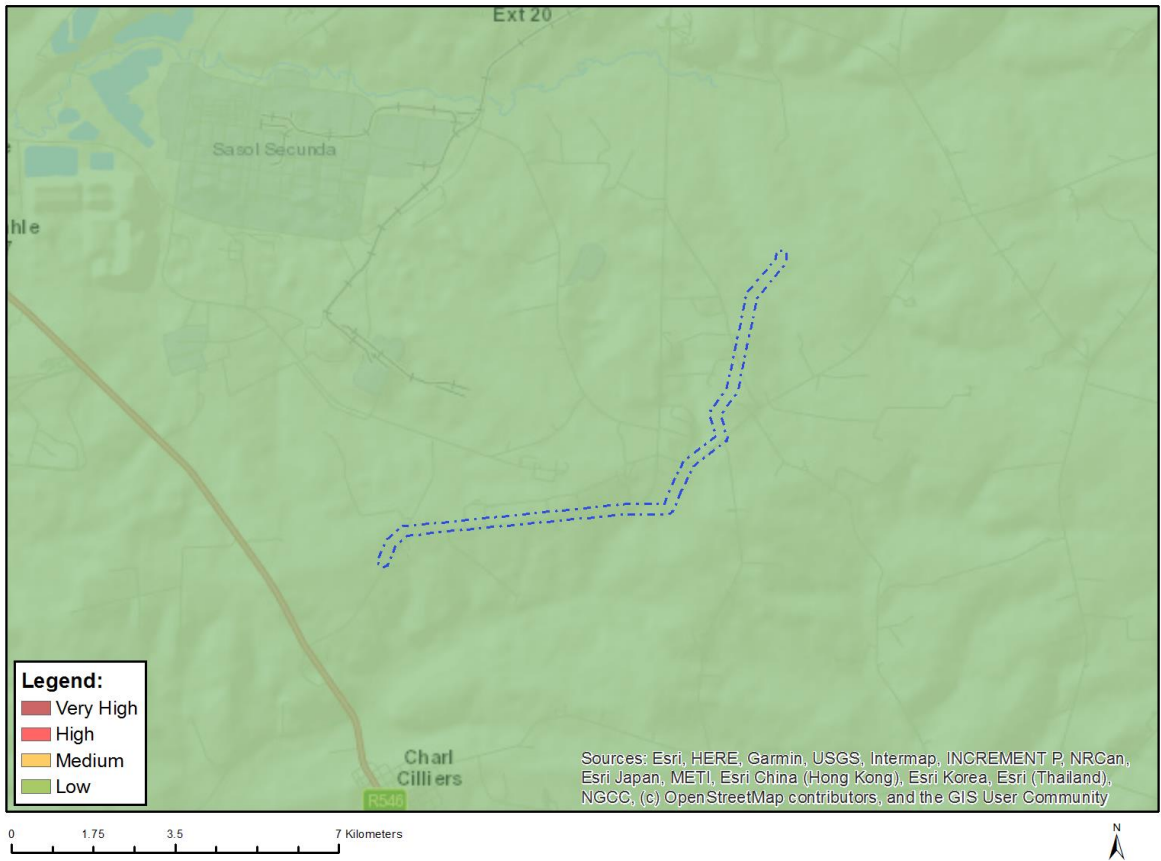


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

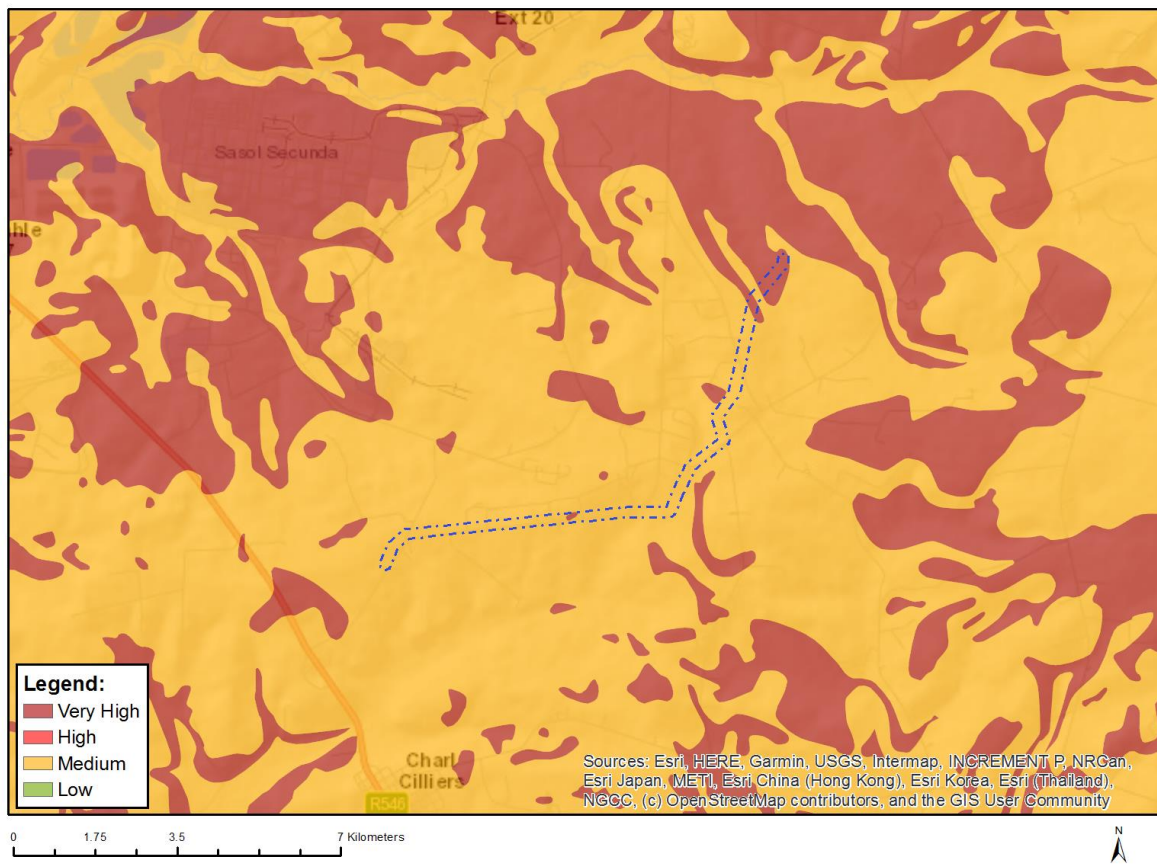


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

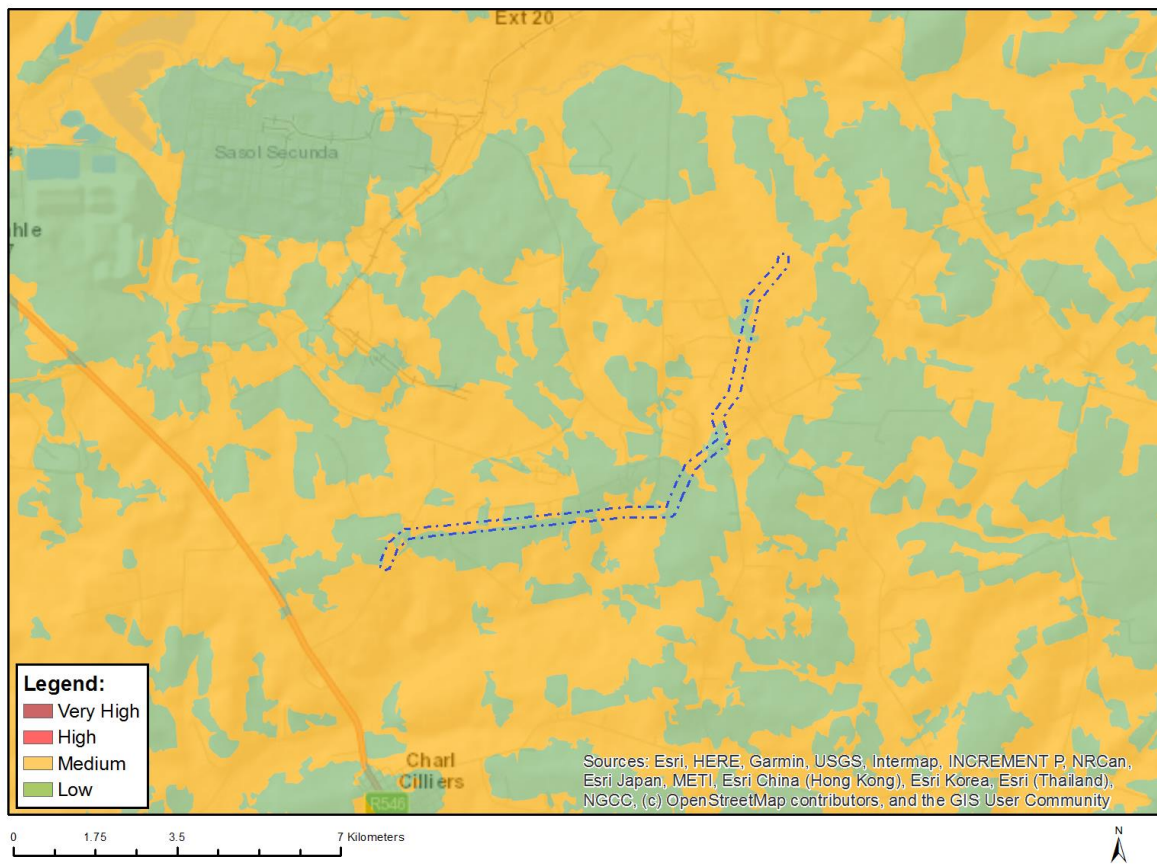


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Features with a Medium paleontological sensitivity
Very High	Features with a Very High paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



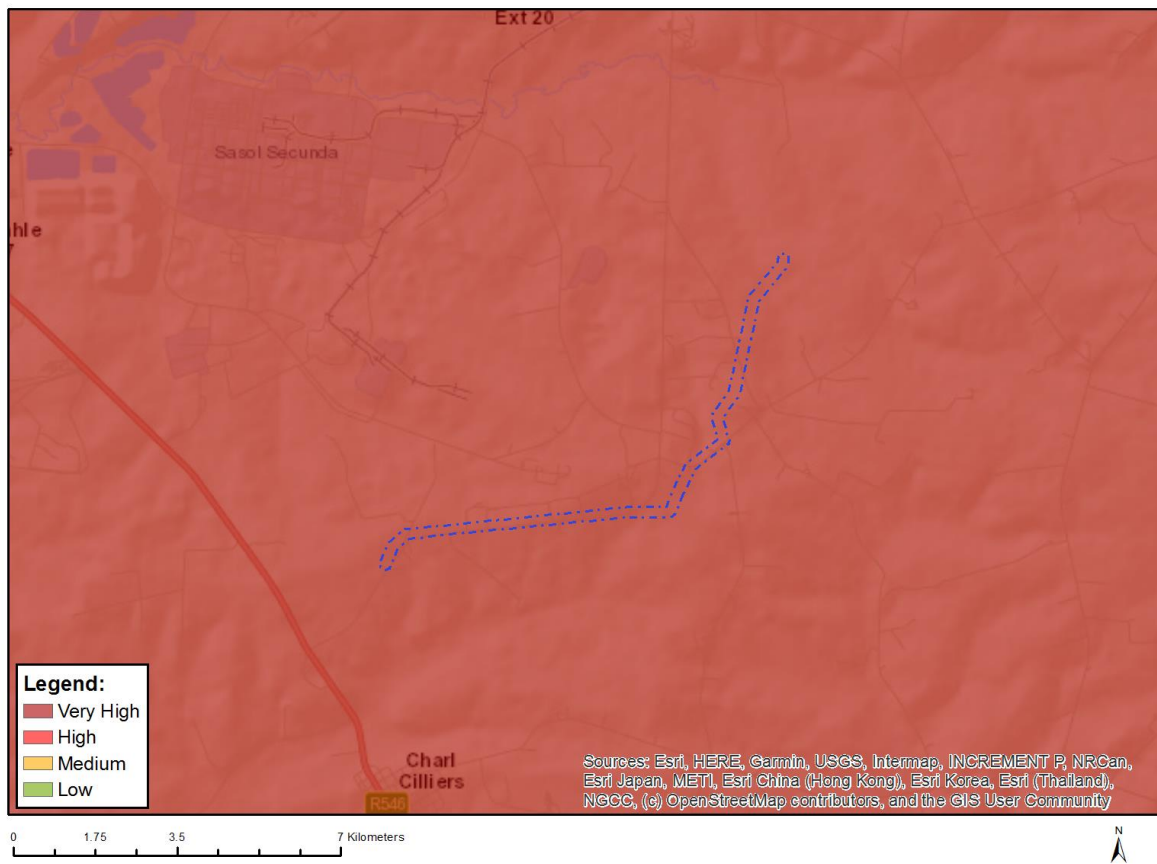
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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
Medium	Sensitive species 1252
Medium	Sensitive species 691
Medium	Pachycarpus suaveolens

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	Protected Areas Expansion Strategy
Very High	Vulnerable ecosystem

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

EIA Reference number:

Project name: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili EF: Alternative 3

Project title: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili EF: Alternative 3

Date screening report generated: 10/10/2022 11:28:55

Applicant: Vhuvhili Solar RF (Pty) Ltd

Compiler: CSIR

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

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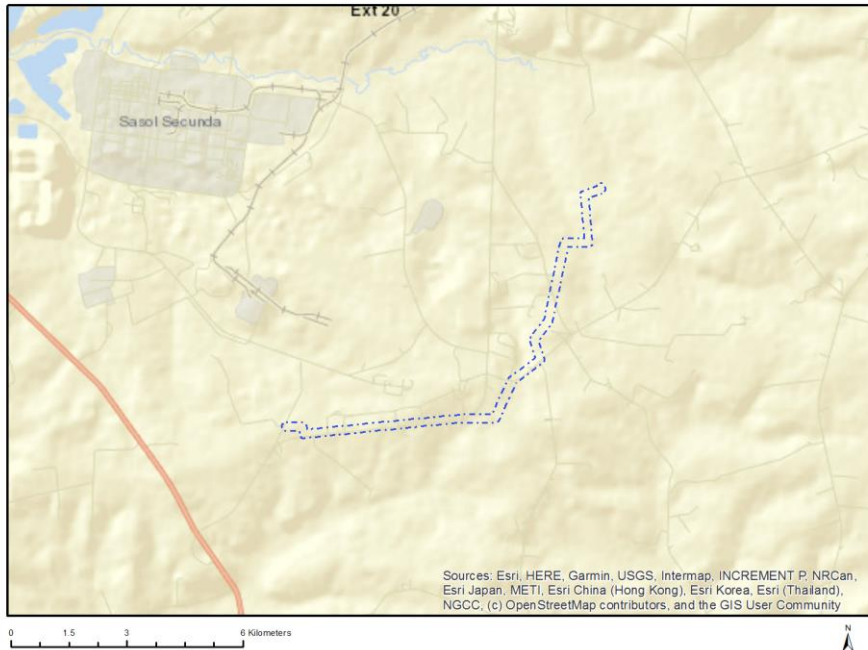
Proposed Project Location

Orientation map 1: General location

General Orientation: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili EF: Alternative 3



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	VLAKSPRUIT	292	0	26°35'40.69S	29°15'58.14E	Farm
2	KNOPPIESFONTEIN	313	0	26°37'44.47S	29°15'47.7E	Farm
3	BOSJESSPRUIT	291	0	26°35'43.69S	29°12'5.52E	Farm
4	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	Farm
5	GROOTVLEI	293	0	26°32'38.06S	29°17'5.86E	Farm
6	VAN TONDRSHOEK	317	0	26°38'30.64S	29°10'9.54E	Farm
7		565	0	26°32'52.86S	29°14'51.77E	Farm
8	BRANDWACHT	316	0	26°38'15.09S	29°13'17.29E	Farm
9	VLAKSPRUIT	292	15	26°35'7.54S	29°14'38.8E	Farm Portion
10	VLAKSPRUIT	292	19	26°35'20.31S	29°15'18.42E	Farm Portion
11	KNOPPIESFONTEIN	313	0	26°37'32.36S	29°15'5.99E	Farm Portion
12		584	0	26°32'56.84S	29°14'54.27E	Farm Portion
13	VLAKSPRUIT	292	13	26°35'11.39S	29°15'56.37E	Farm Portion
14	VLAKSPRUIT	292	0	26°35'15.34S	29°15'33.52E	Farm Portion
15	GROOTVLEI	293	20	26°33'41.64S	29°15'46.7E	Farm Portion
16	VAN TONDRSHOEK	317	2	26°37'54.62S	29°11'23.05E	Farm Portion
17	BOSJESSPRUIT	291	10	26°36'58.13S	29°11'14.65E	Farm Portion
18	VLAKSPRUIT	292	14	26°34'51.19S	29°14'51.71E	Farm Portion
19	VLAKSPRUIT	292	18	26°36'32.15S	29°14'54.35E	Farm Portion
20	BRANDWACHT	316	6	26°37'7.2S	29°12'52.31E	Farm Portion
21	BRANDWACHT	316	9	26°37'17.3S	29°12'0.55E	Farm Portion
22	VLAKSPRUIT	292	3	26°35'29.67S	29°14'40.6E	Farm Portion
23	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	Farm Portion
24	BOSJESSPRUIT	291	6	26°36'41.13S	29°13'30.67E	Farm Portion
25	VLAKSPRUIT	292	2	26°36'7.6S	29°14'30.23E	Farm Portion

26	VLAKSPRUIT	292	16	26°36'7.93S	29°15'25.36E	Farm Portion
27	BRANDWACHT	316	3	26°37'16.48S	29°13'57.45E	Farm Portion
28	BRANDWACHT	316	8	26°37'8.84S	29°12'23.07E	Farm Portion
29	BRANDWACHT	316	7	26°37'7.16S	29°13'19.87E	Farm Portion
30	BOSJESSPRUIT	291	11	26°36'42.91S	29°12'7.97E	Farm Portion
31	BOSJESSPRUIT	291	13	26°36'44.75S	29°12'35.56E	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	14/12/16/3/3/2/754	Solar PV	Approved	22.6
2	14/12/16/3/3/2/754	Solar PV	Approved	22.6

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

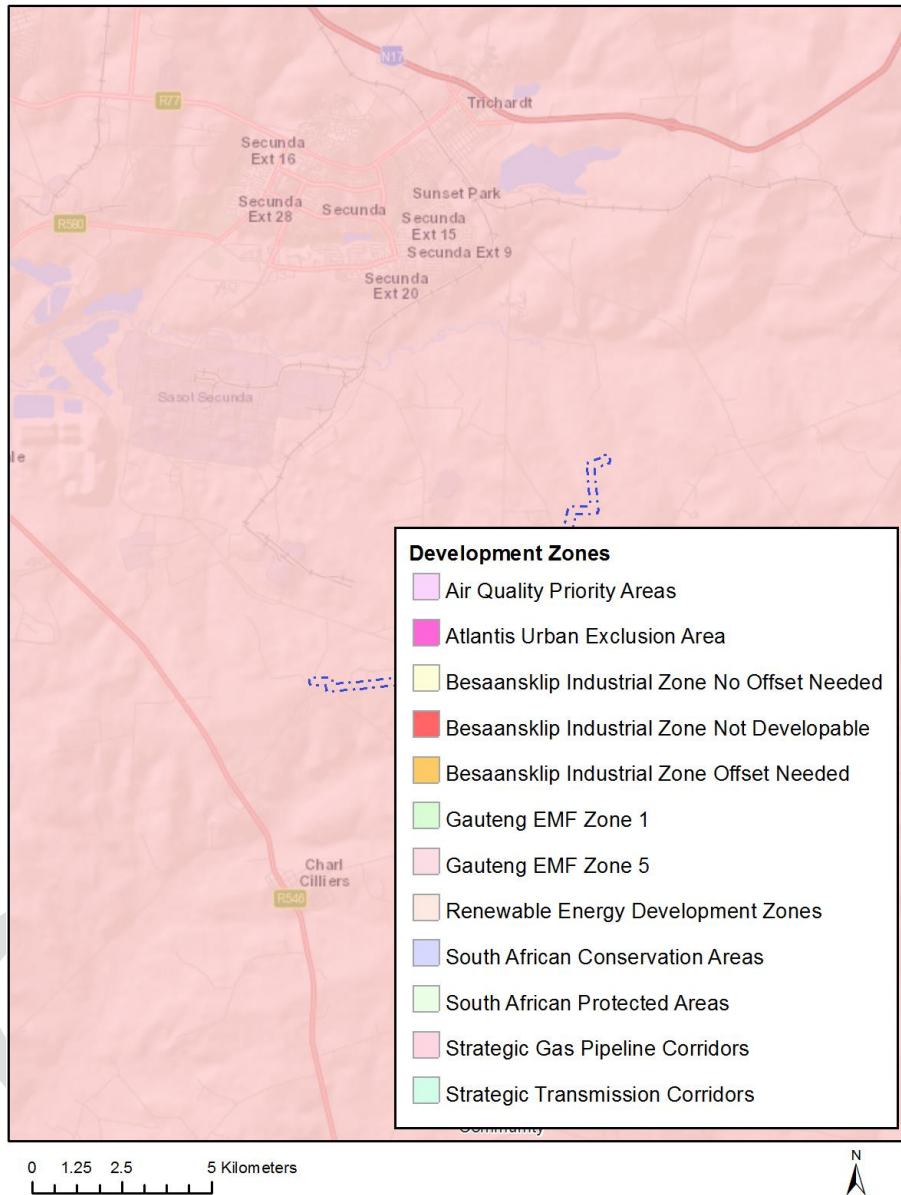
¹ "development footprint", means the area within the site on which the development will take place and includes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

Air Quality-Highveld Priority Area	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/HIGHVELD_PRIORITY_AREA_AQMP.pdf
Strategic Gas Pipeline Corridors -Phase 8: Rompco Pipeline Corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf

OFFICIAL

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

Project Location: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili EF: Alternative 3



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	High	Medium	Low
-------	-----------	------	--------	-----

	sensitivity	sensitivity	sensitivity	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.

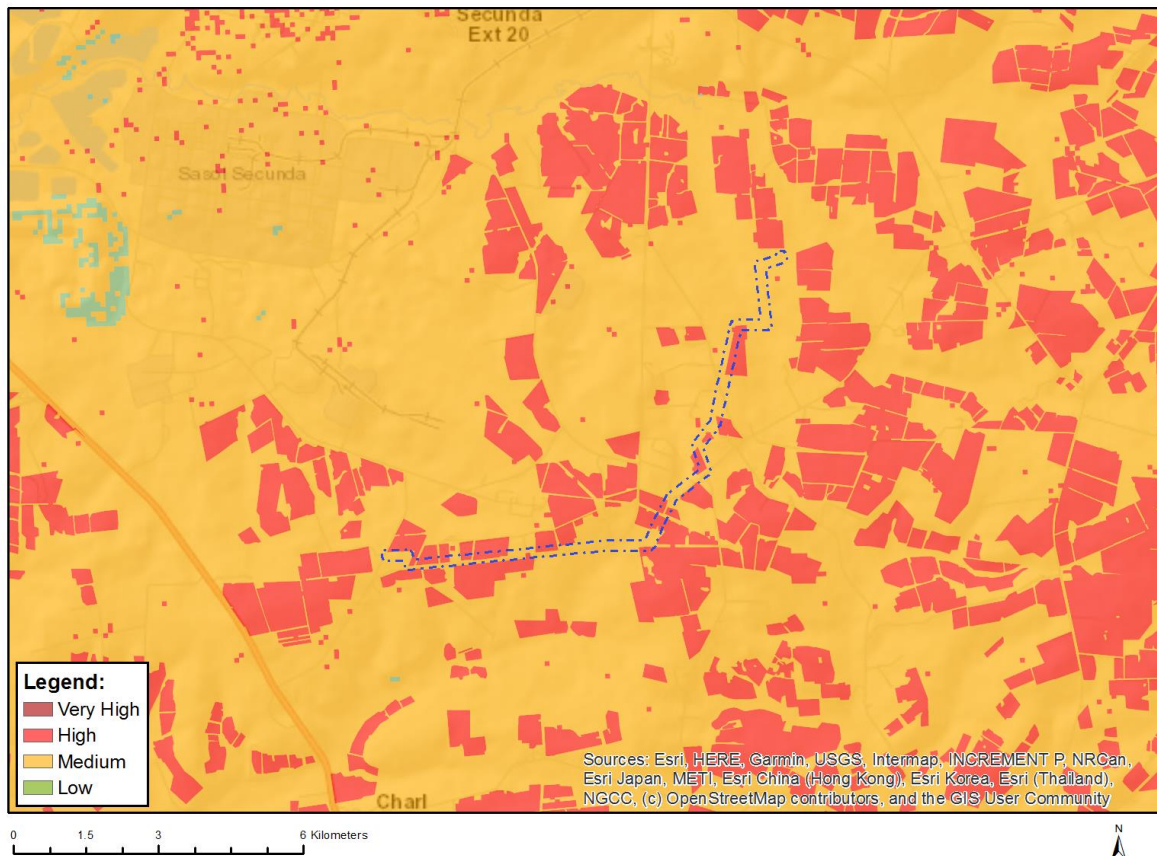
N	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.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	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf

	Impact Assessment	
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 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

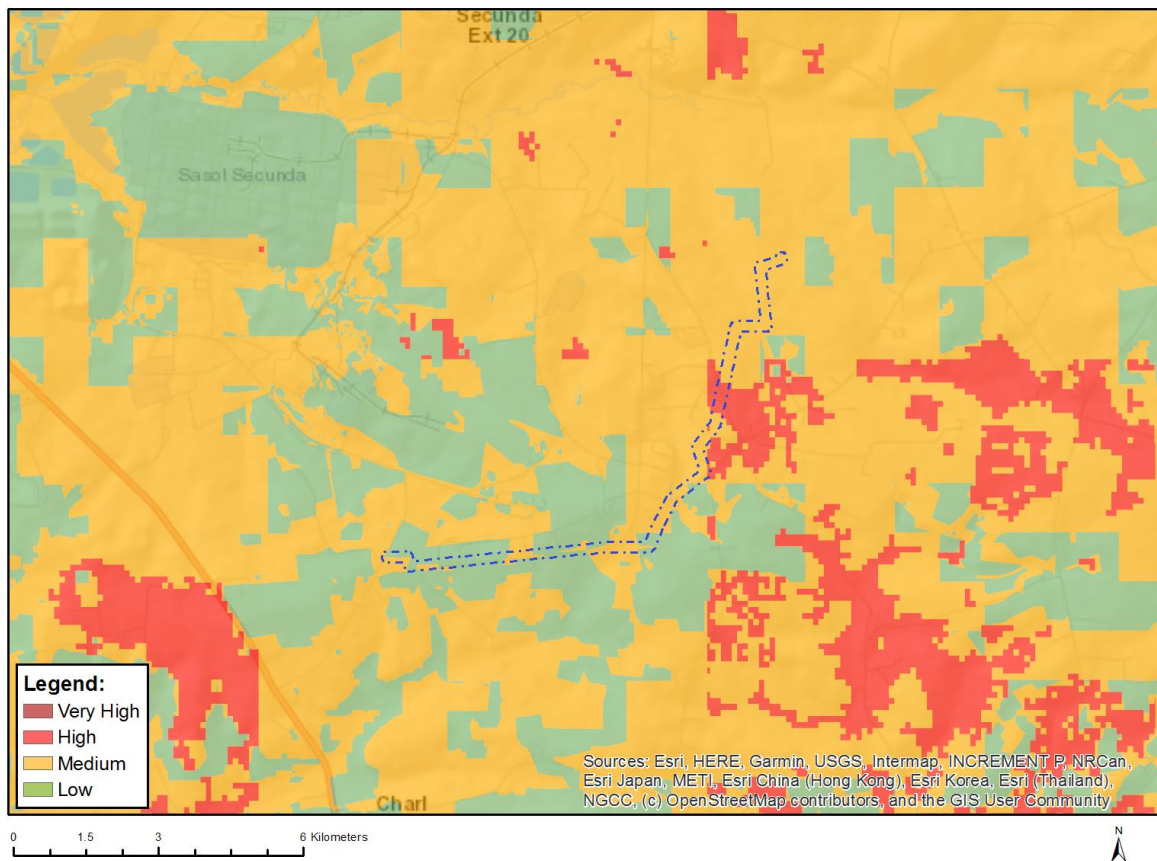


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



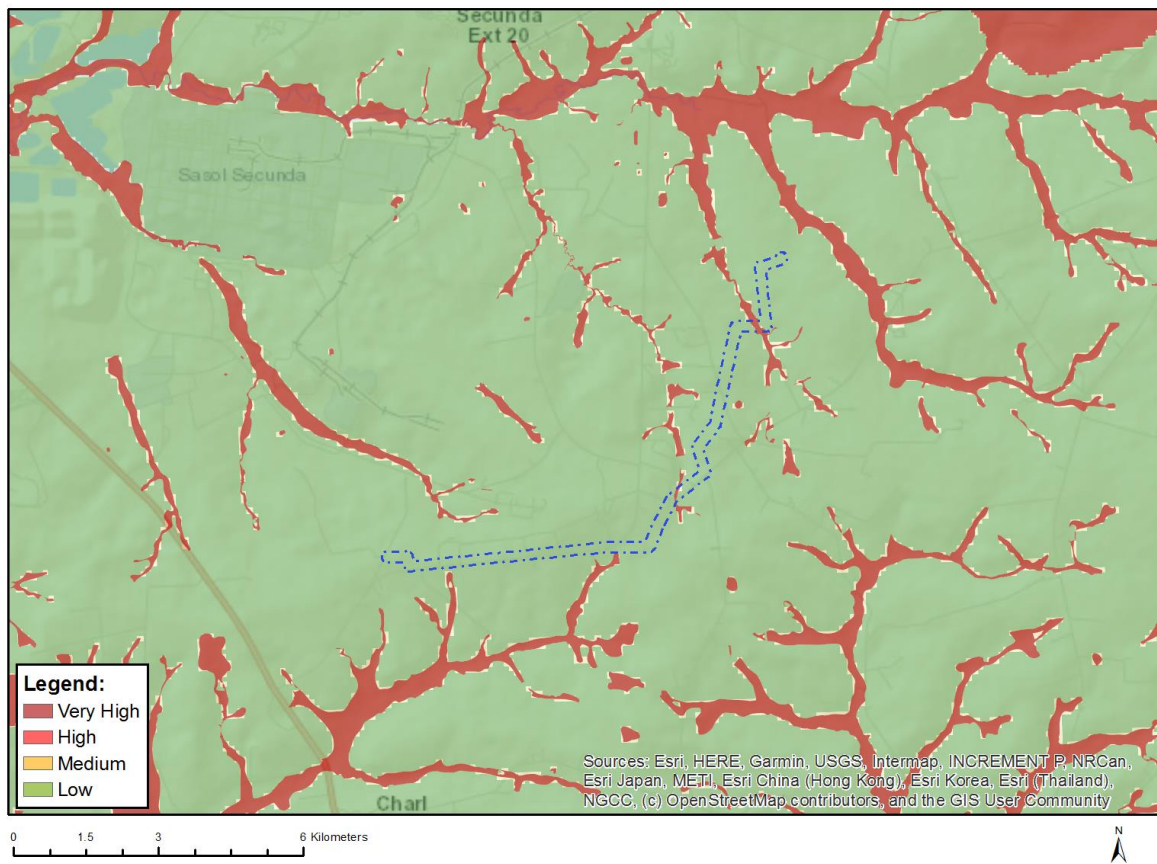
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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 ranivorus
Low	Subject to confirmation
Medium	Aves-Circus ranivorus
Medium	Aves-Sagittarius serpentarius
Medium	Aves-Eupodotis senegalensis
Medium	Insecta-Lepidochrysops procera
Medium	Mammalia-Crocidura maquassiensis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

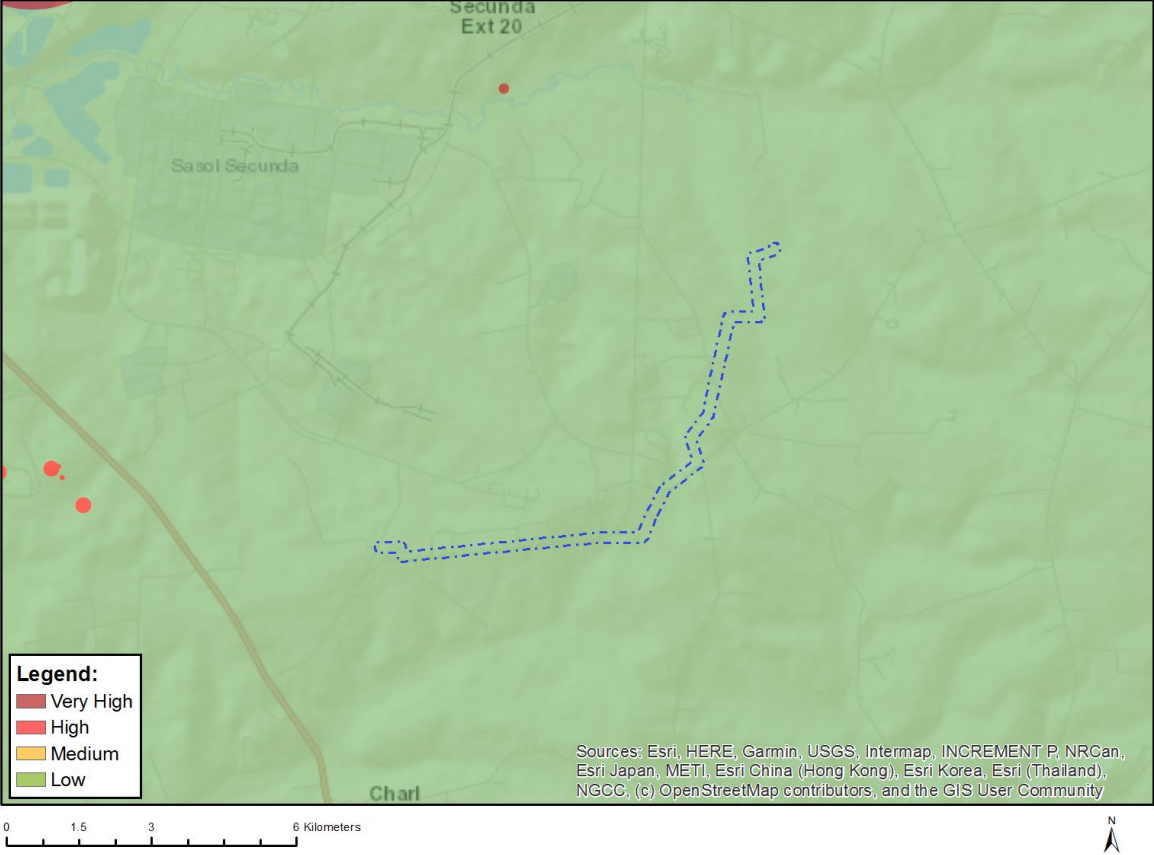


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands and Estuaries

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

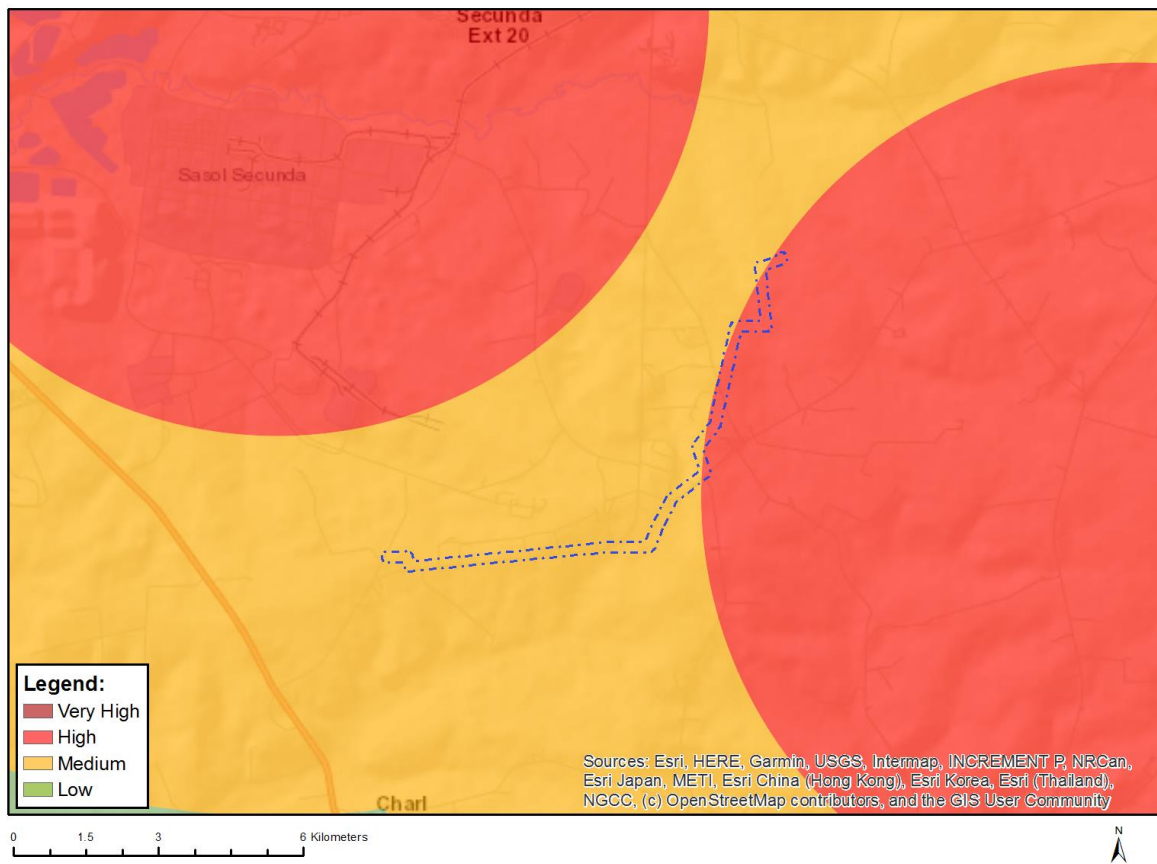


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

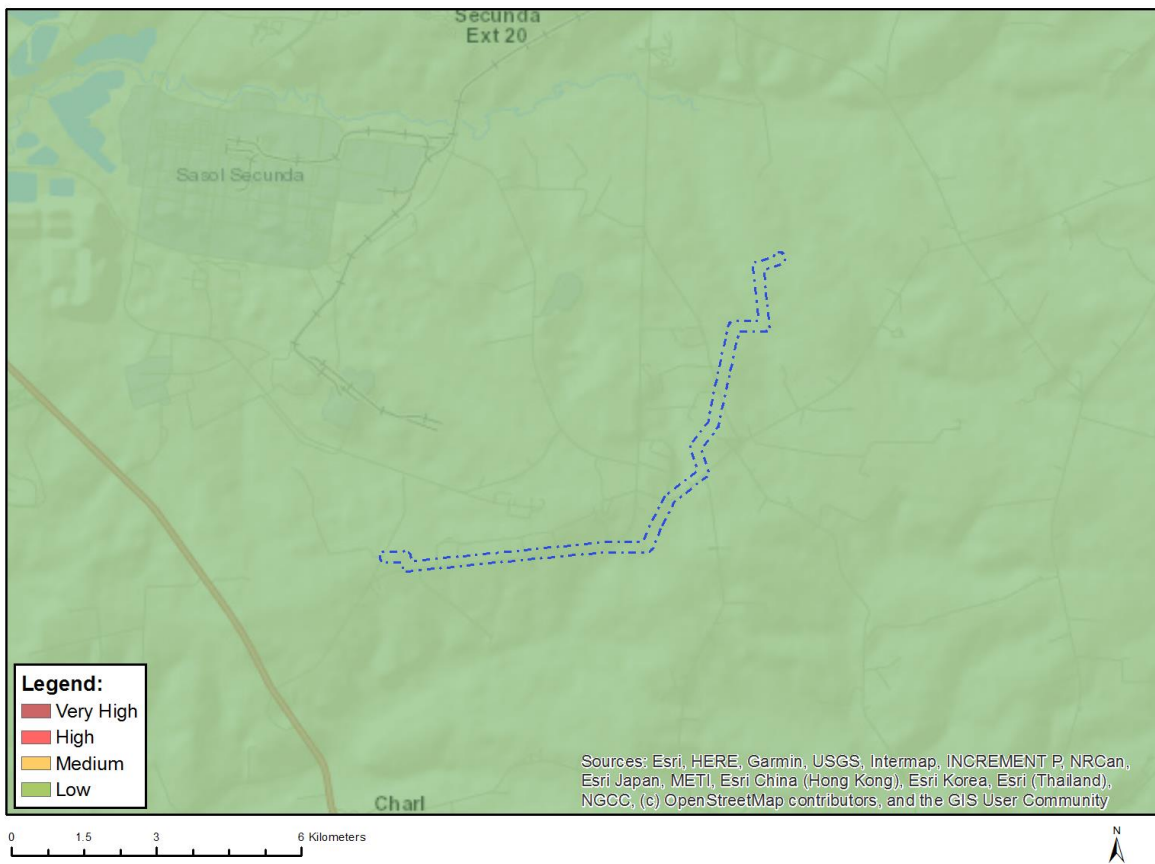


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

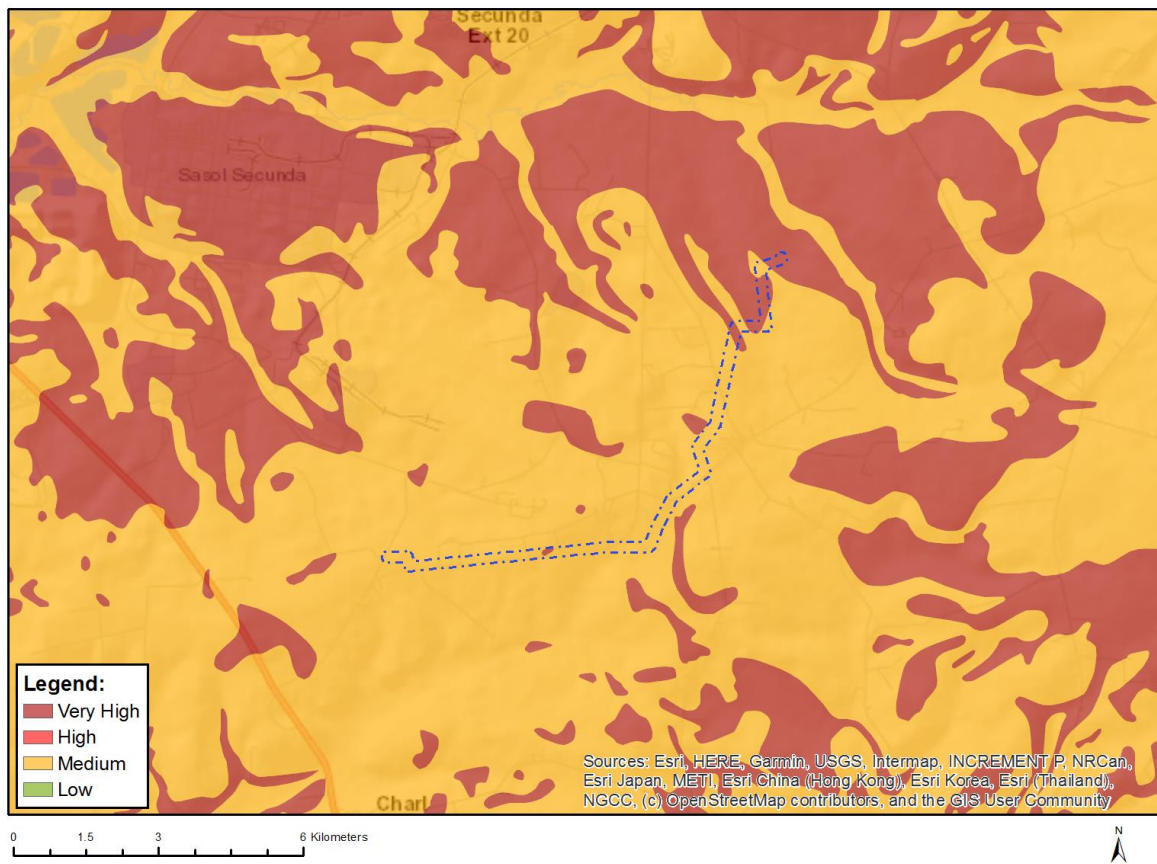


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

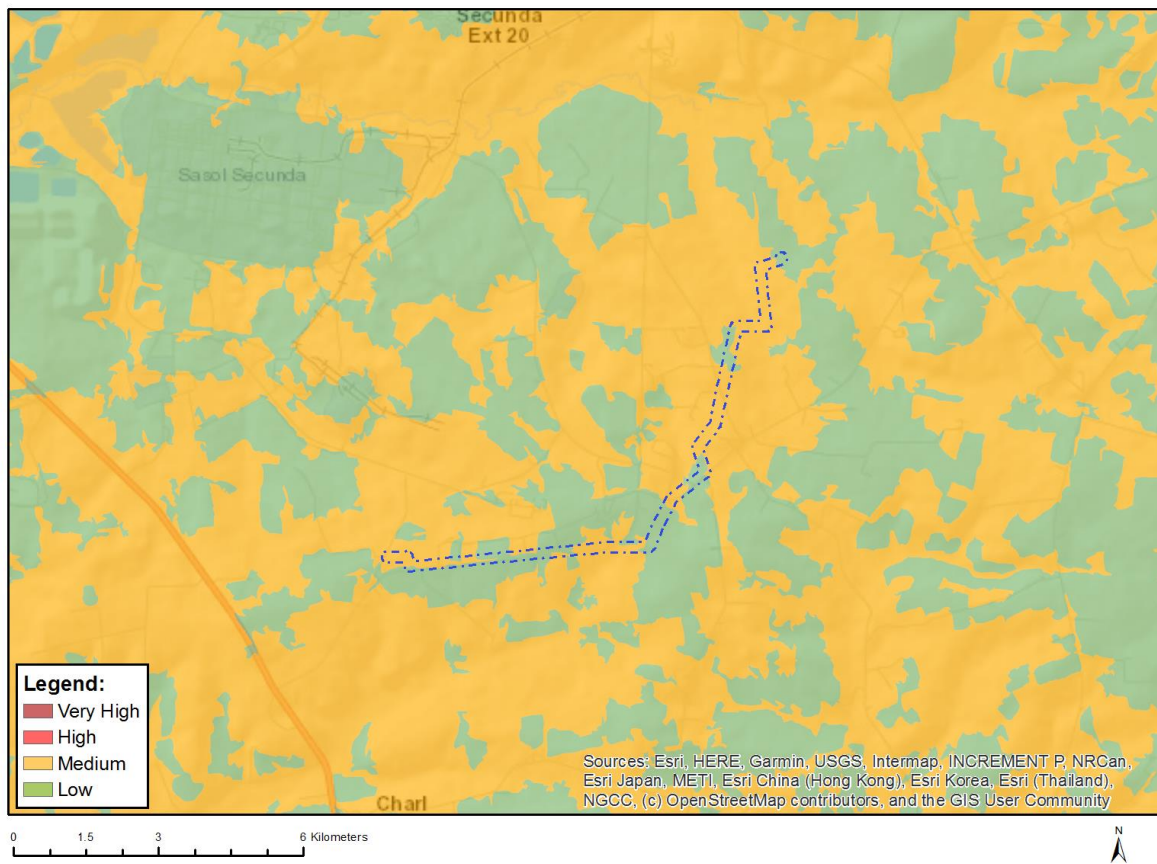


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Features with a Medium paleontological sensitivity
Very High	Features with a Very High paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



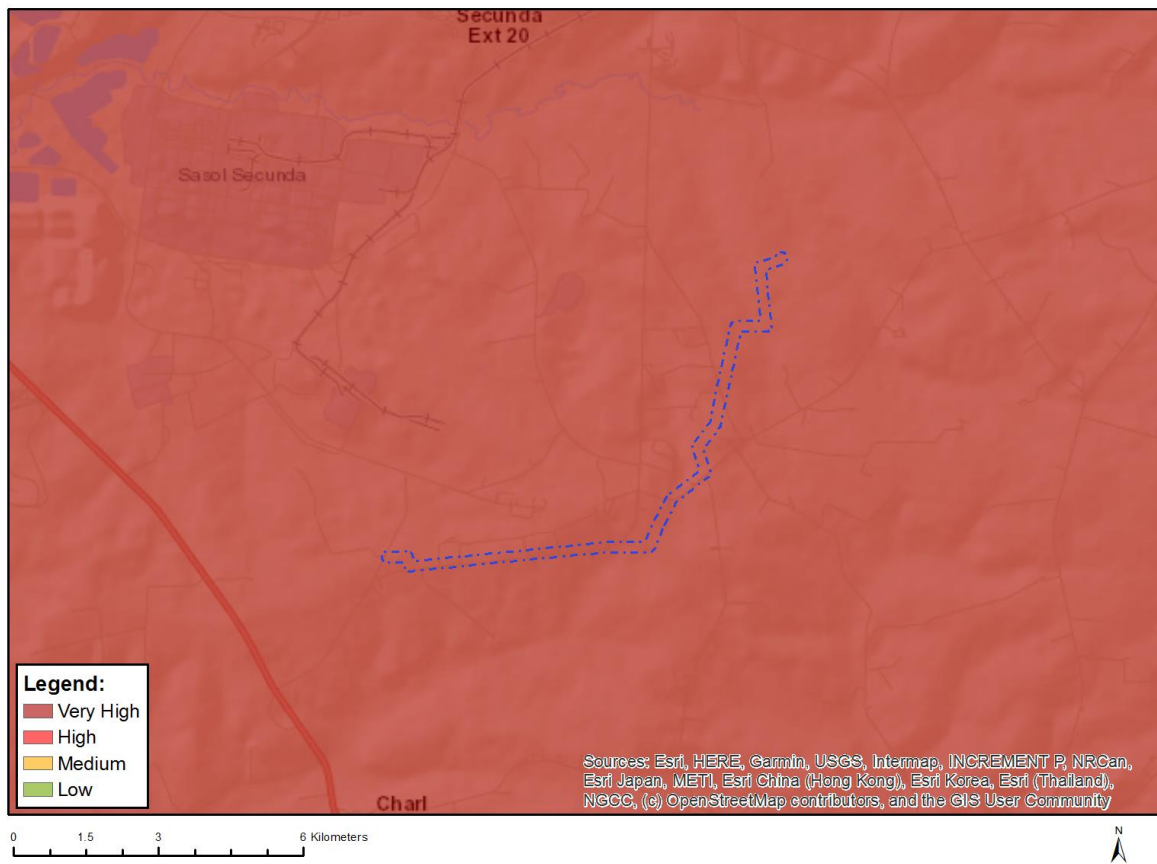
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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	Sensitive species 1252
Medium	Sensitive species 691
Medium	Pachycarpus suaveolens

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	Protected Areas Expansion Strategy
Very High	Vulnerable ecosystem

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

EIA Reference number:

Project name: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF: Alternative 4

Project title: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF: Alternative 4

Date screening report generated: 10/10/2022 12:53:08

Applicant: Vhuvhili Solar RF (Pty) Ltd

Compiler: CSIR

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

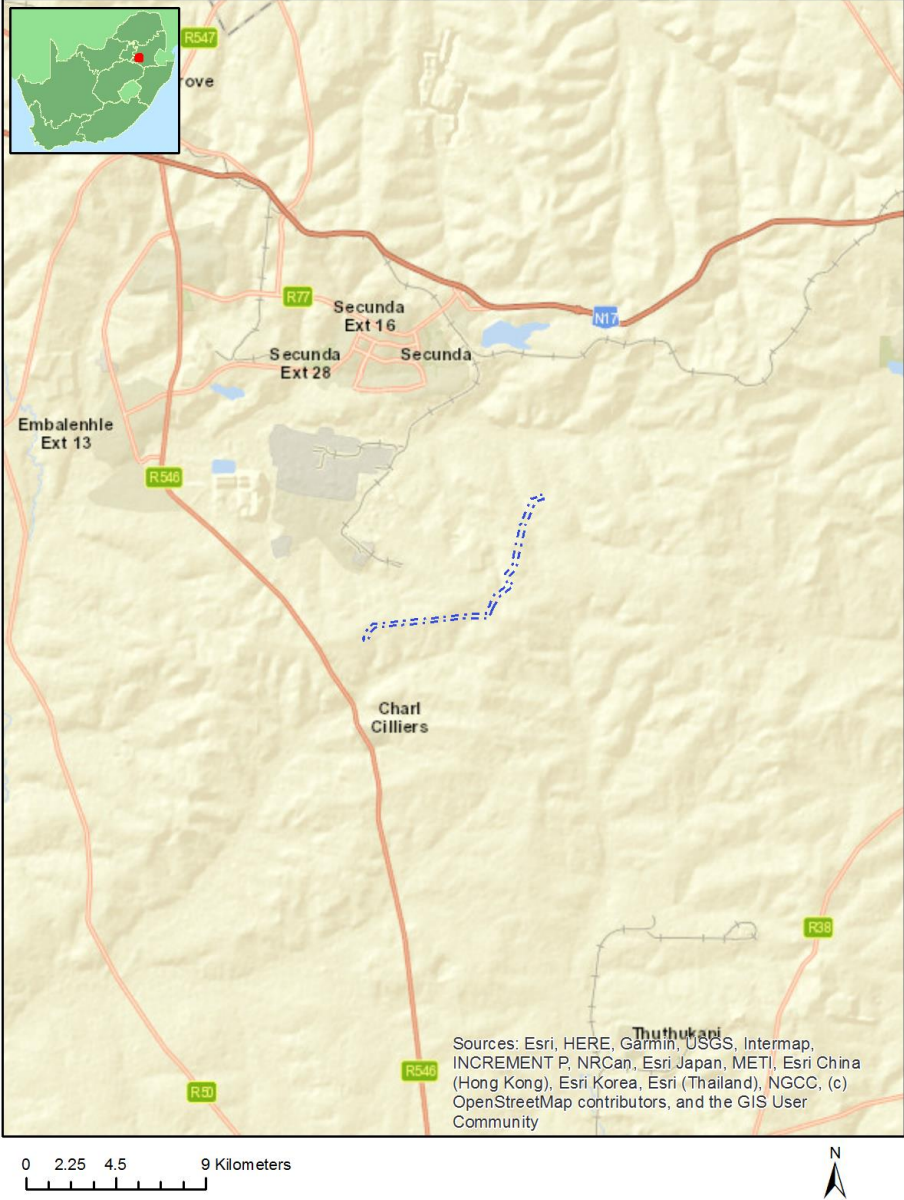
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MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY	18

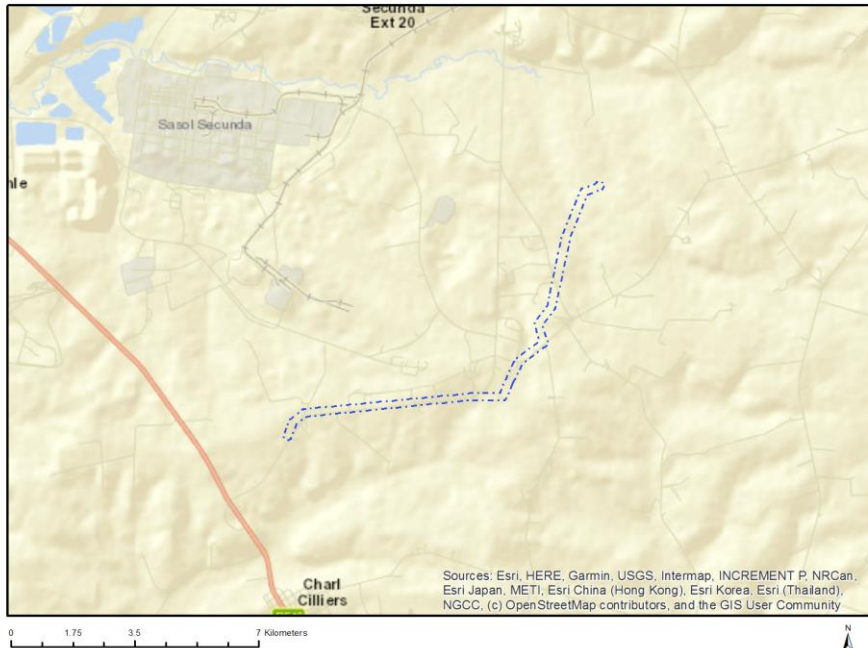
Proposed Project Location

Orientation map 1: General location

General Orientation: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF: Alternative 4



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	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	Farm
2	KNOPPIESFONTEIN	313	0	26°37'44.47S	29°15'47.7E	Farm
3	VLAKSPRUIT	292	0	26°35'40.69S	29°15'58.14E	Farm
4	VAN TONDRSHOEK	317	0	26°38'30.64S	29°10'9.54E	Farm
5		565	0	26°32'52.86S	29°14'51.77E	Farm
6	BOSJESSPRUIT	291	0	26°35'43.69S	29°12'5.52E	Farm
7	GROOTVLEI	293	0	26°32'38.06S	29°17'5.86E	Farm
8	BRANDWACHT	316	0	26°38'15.09S	29°13'17.29E	Farm
9	VLAKSPRUIT	292	15	26°35'7.54S	29°14'38.8E	Farm Portion
10	BOSJESSPRUIT	291	10	26°36'58.13S	29°11'14.65E	Farm Portion
11	VLAKSPRUIT	292	14	26°34'51.19S	29°14'51.71E	Farm Portion
12	VLAKSPRUIT	292	18	26°36'32.15S	29°14'54.35E	Farm Portion
13	BRANDWACHT	316	6	26°37'7.2S	29°12'52.31E	Farm Portion
14	VAN TONDRSHOEK	317	12	26°37'33.81S	29°10'55.55E	Farm Portion
15	VLAKSPRUIT	292	19	26°35'20.31S	29°15'18.42E	Farm Portion
16	KNOPPIESFONTEIN	313	0	26°37'32.36S	29°15'5.99E	Farm Portion
17		584	0	26°32'56.84S	29°14'54.27E	Farm Portion
18	BOSJESSPRUIT	291	11	26°36'42.91S	29°12'7.97E	Farm Portion
19	BOSJESSPRUIT	291	13	26°36'44.75S	29°12'35.56E	Farm Portion
20	GROOTVLEI	293	20	26°33'41.64S	29°15'46.7E	Farm Portion
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22	BRANDWACHT	316	9	26°37'17.3S	29°12'0.55E	Farm Portion
23	VLAKSPRUIT	292	3	26°35'29.67S	29°14'40.6E	Farm Portion
24	KNOPPIES	314	0	26°38'1.58S	29°14'33.97E	Farm Portion

25	BOSJESSPRUIT	291	6	26°36'41.13S	29°13'30.67E	Farm Portion
26	VLAKSPRUIT	292	2	26°36'7.6S	29°14'30.23E	Farm Portion
27	VLAKSPRUIT	292	16	26°36'7.93S	29°15'25.36E	Farm Portion
28	BRANDWACHT	316	3	26°37'16.48S	29°13'57.45E	Farm Portion
29	BRANDWACHT	316	8	26°37'8.84S	29°12'23.07E	Farm Portion
30	BRANDWACHT	316	7	26°37'7.16S	29°13'19.87E	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	14/12/16/3/3/2/754	Solar PV	Approved	22.6
2	14/12/16/3/3/2/754	Solar PV	Approved	22.6

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

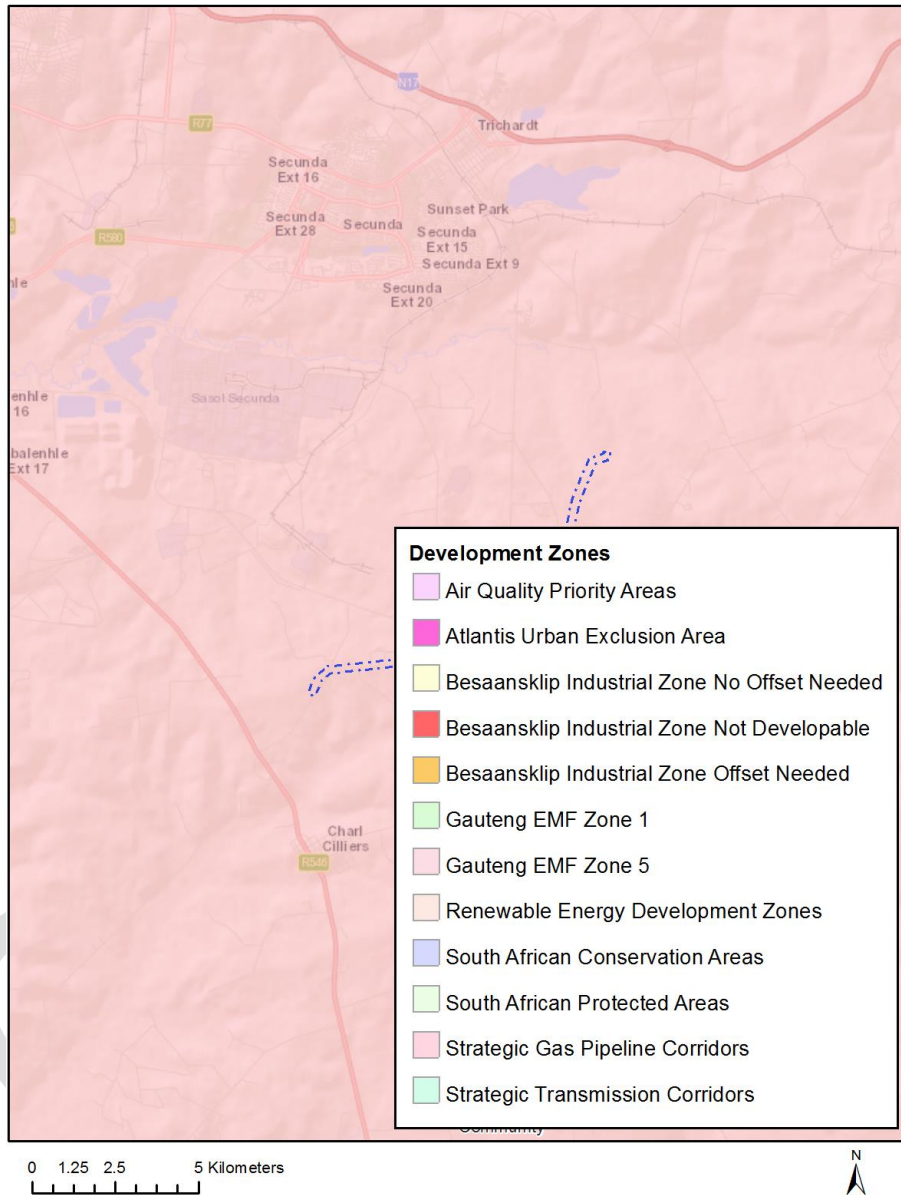
¹ "development footprint", means the area within the site on which the development will take place and includes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

Air Quality-Highveld Priority Area	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/HIGHVELD_PRIORITY_AREA_AQMP.pdf
Strategic Gas Pipeline Corridors -Phase 8: Rompco Pipeline Corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf

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

Project Location: Proposed Development of a 132 kV Overhead Powerline and Associated Electrical Grid Infrastructure to support the Proposed Vhuvhili SEF: Alternative 4



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	High	Medium	Low
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	sensitivity	sensitivity	sensitivity	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.

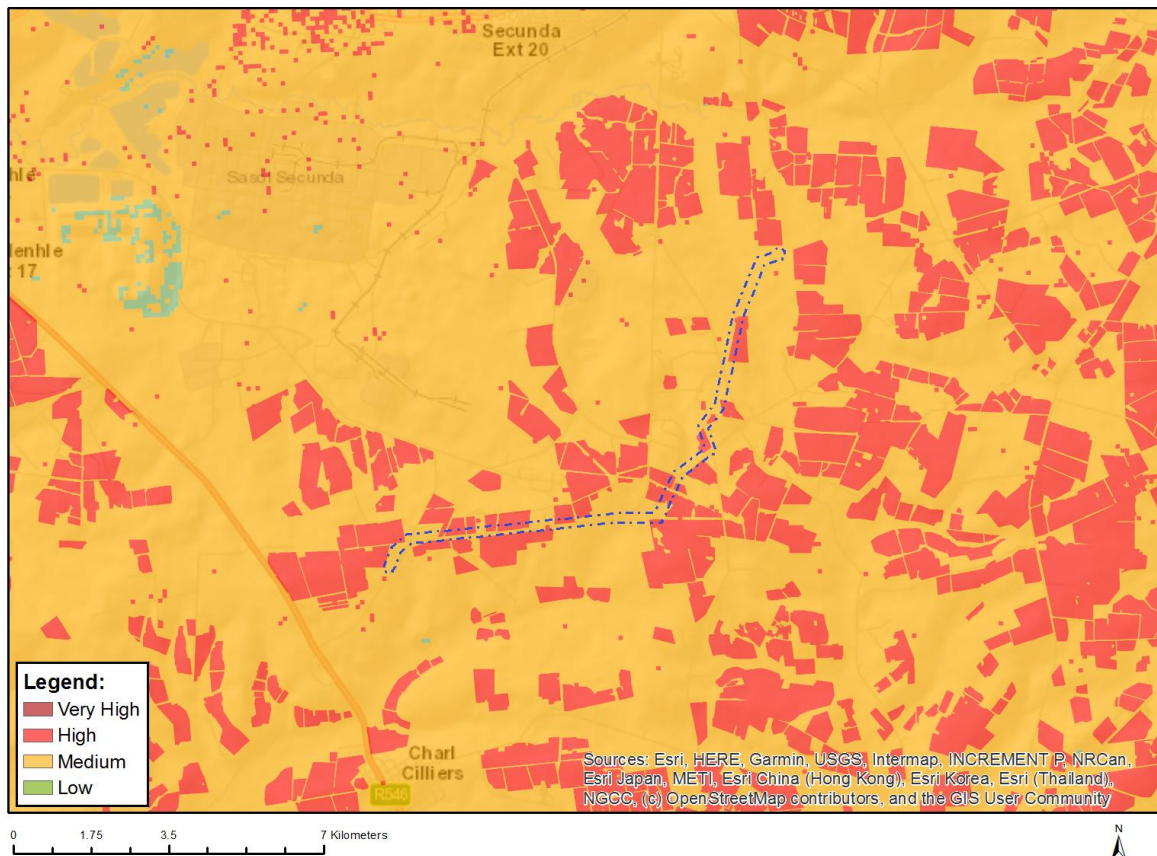
N	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.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	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf

	Impact Assessment	
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 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

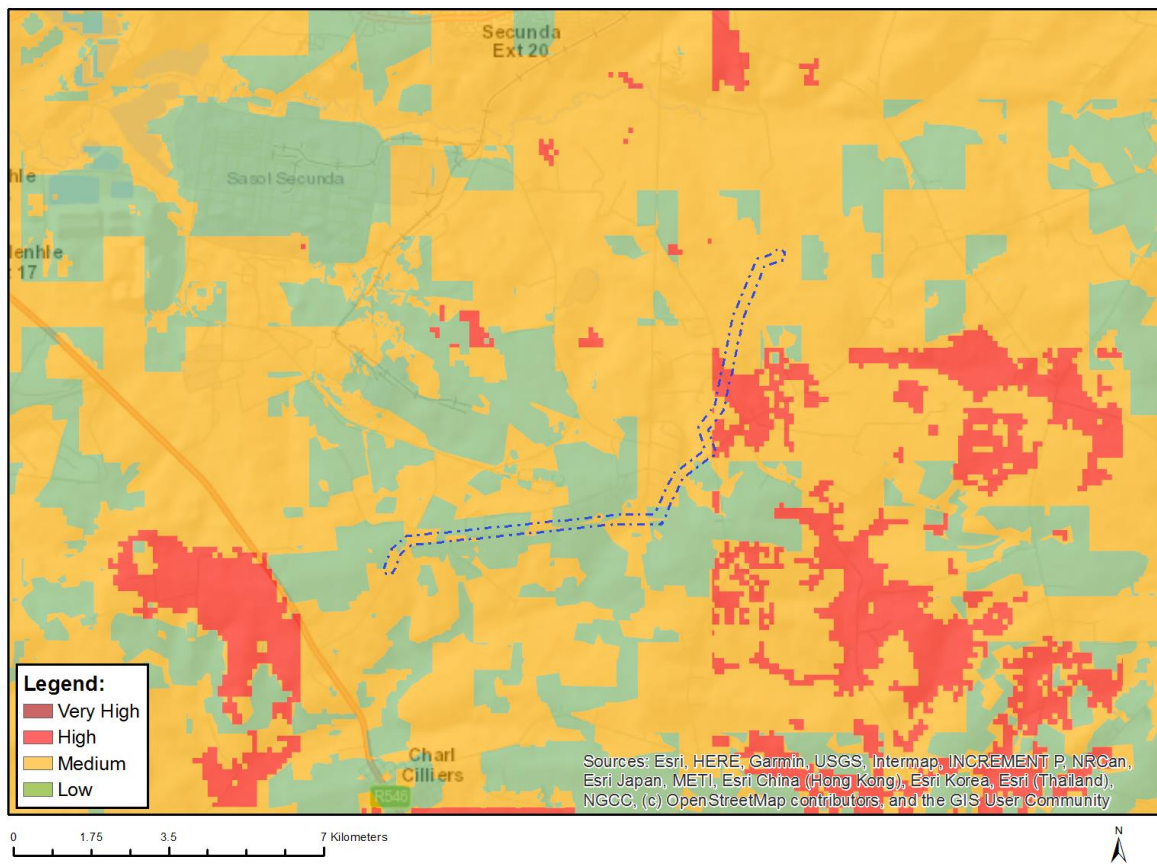


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



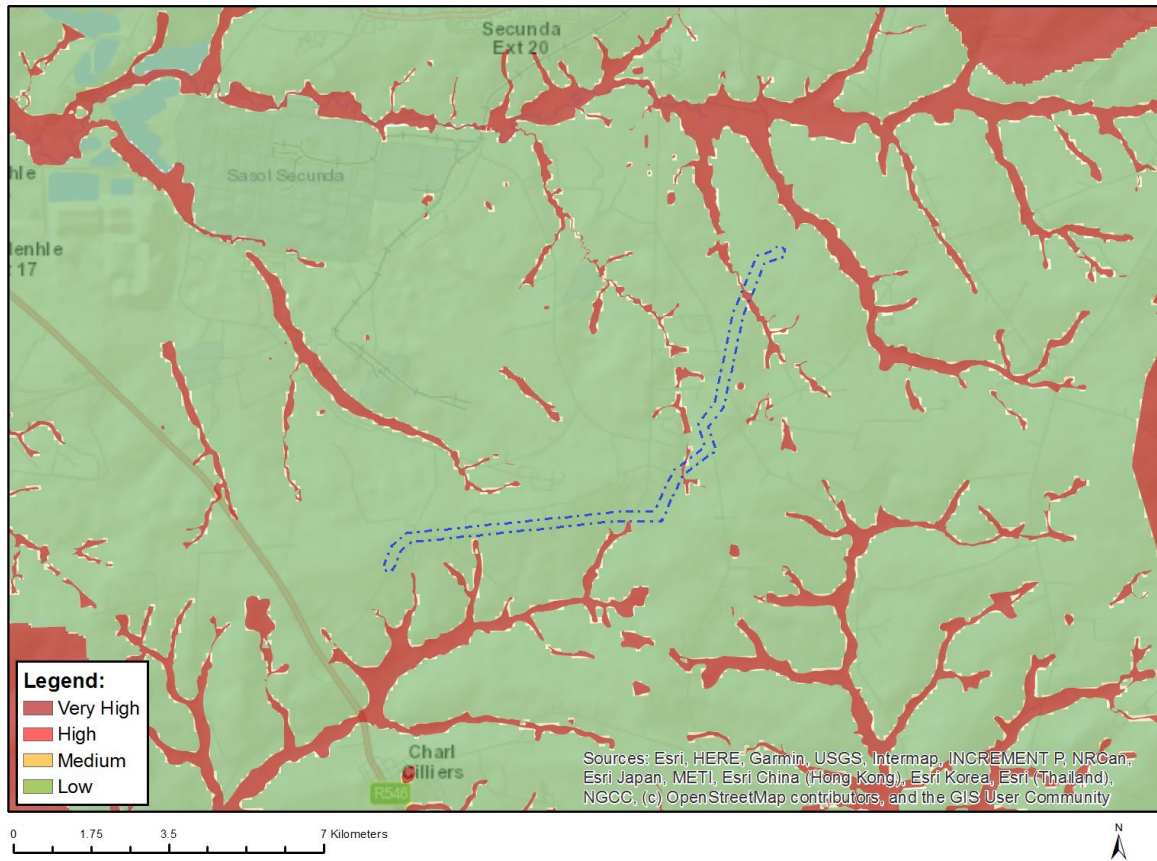
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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 ranivorus
Low	Subject to confirmation
Medium	Aves-Circus ranivorus
Medium	Aves-Sagittarius serpentarius
Medium	Aves-Eupodotis senegalensis
Medium	Insecta-Lepidochrysops procera
Medium	Mammalia-Crocidura maquassiensis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

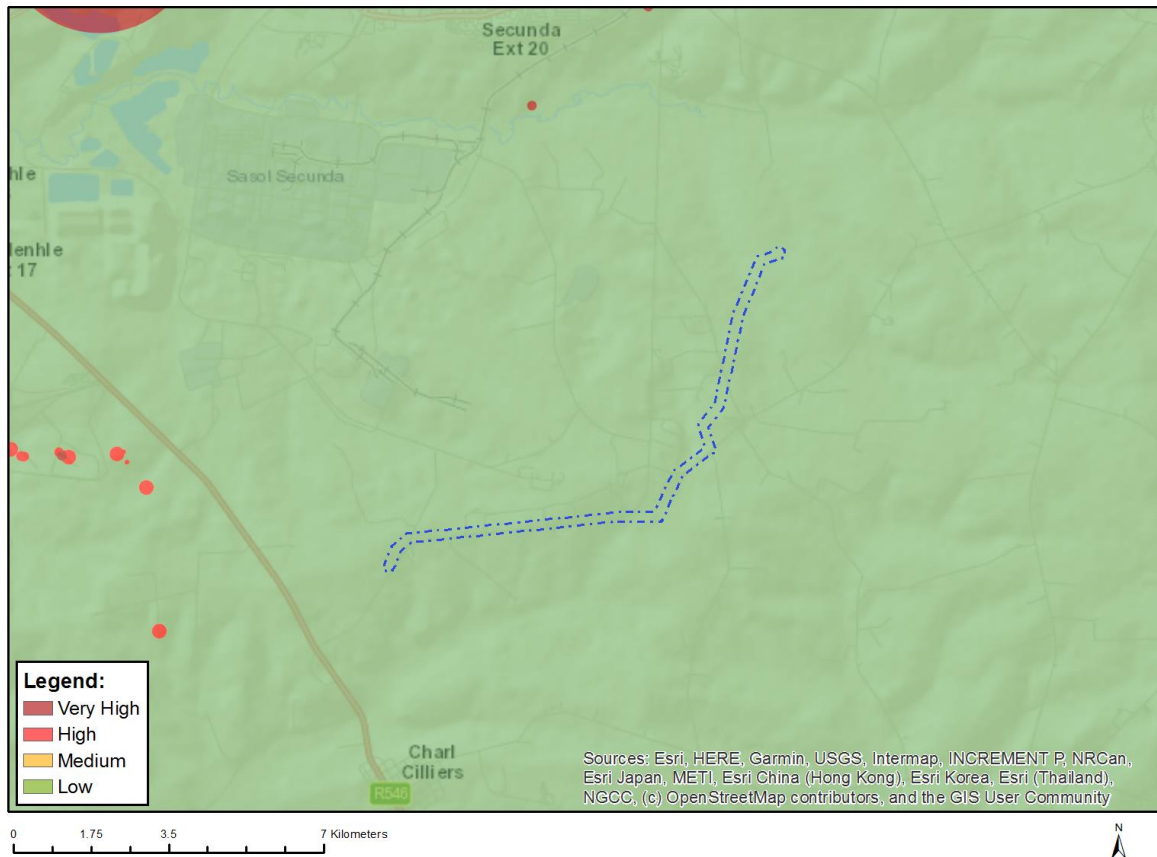


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands and Estuaries

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

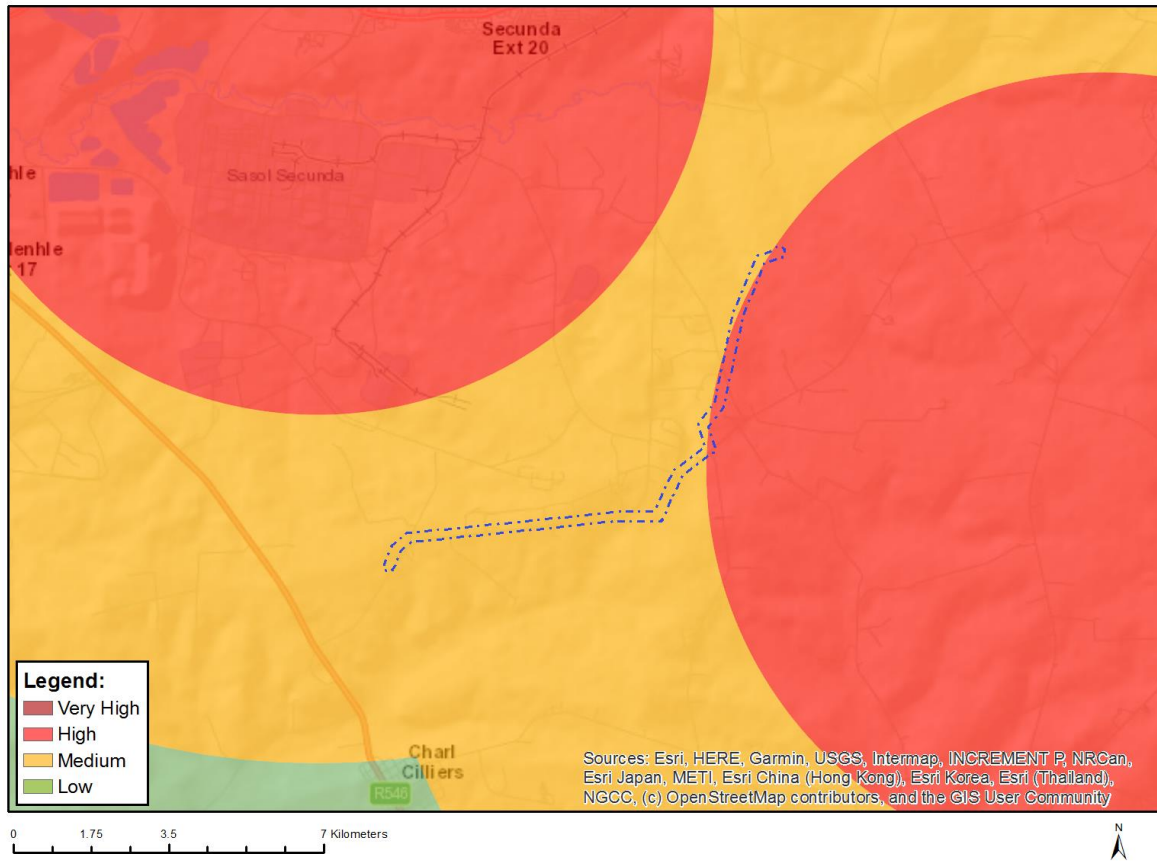


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

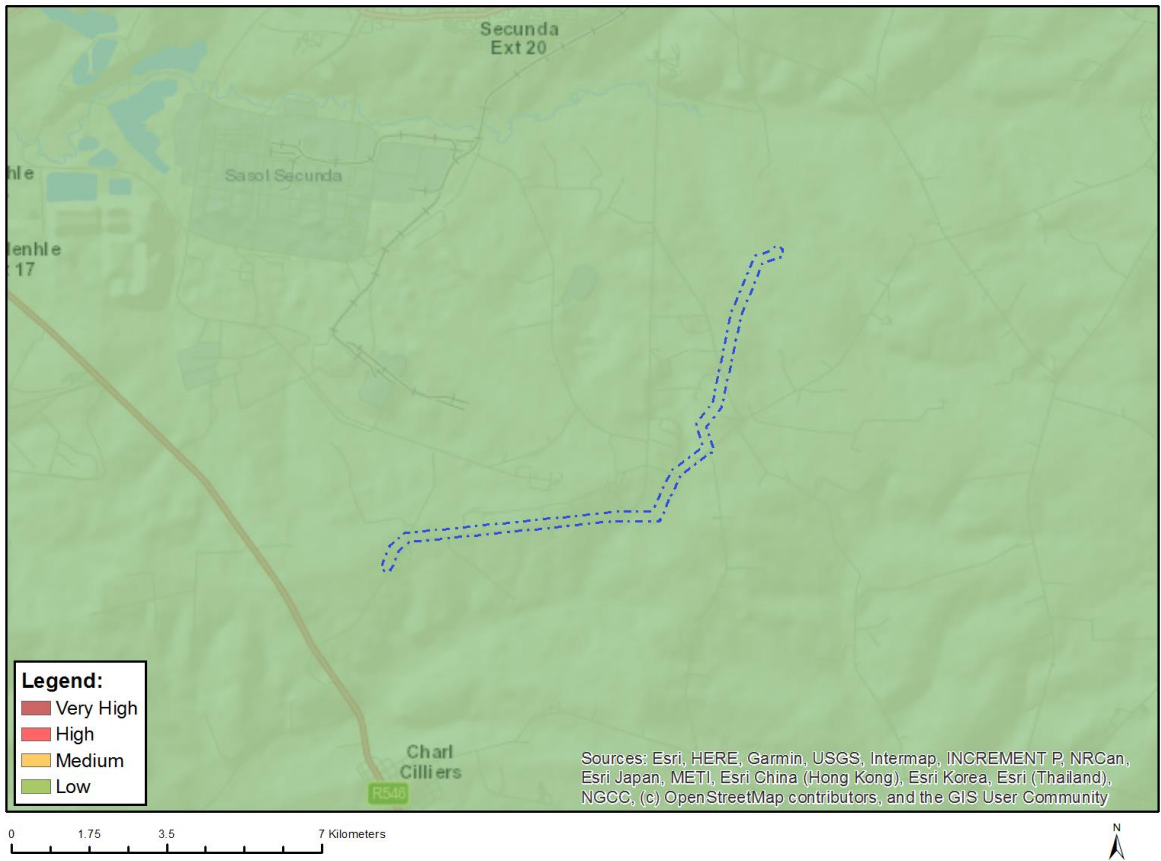


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

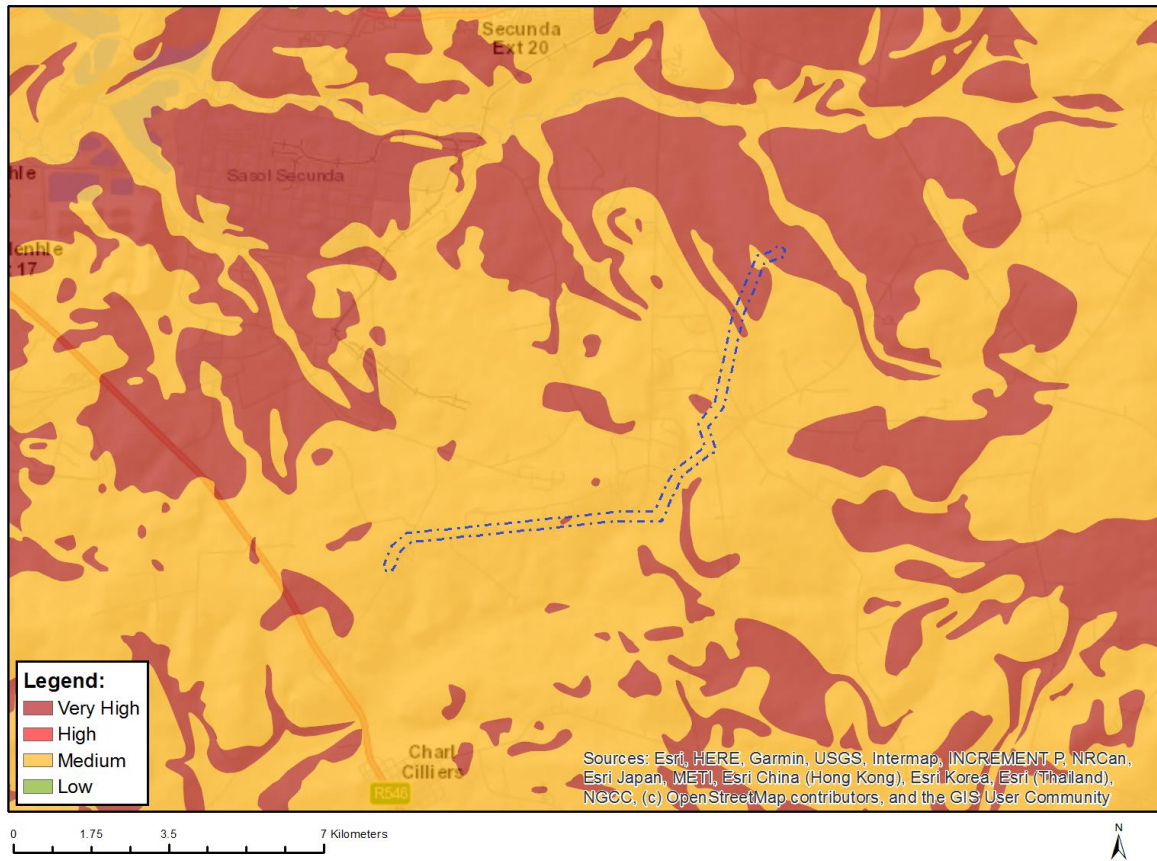


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

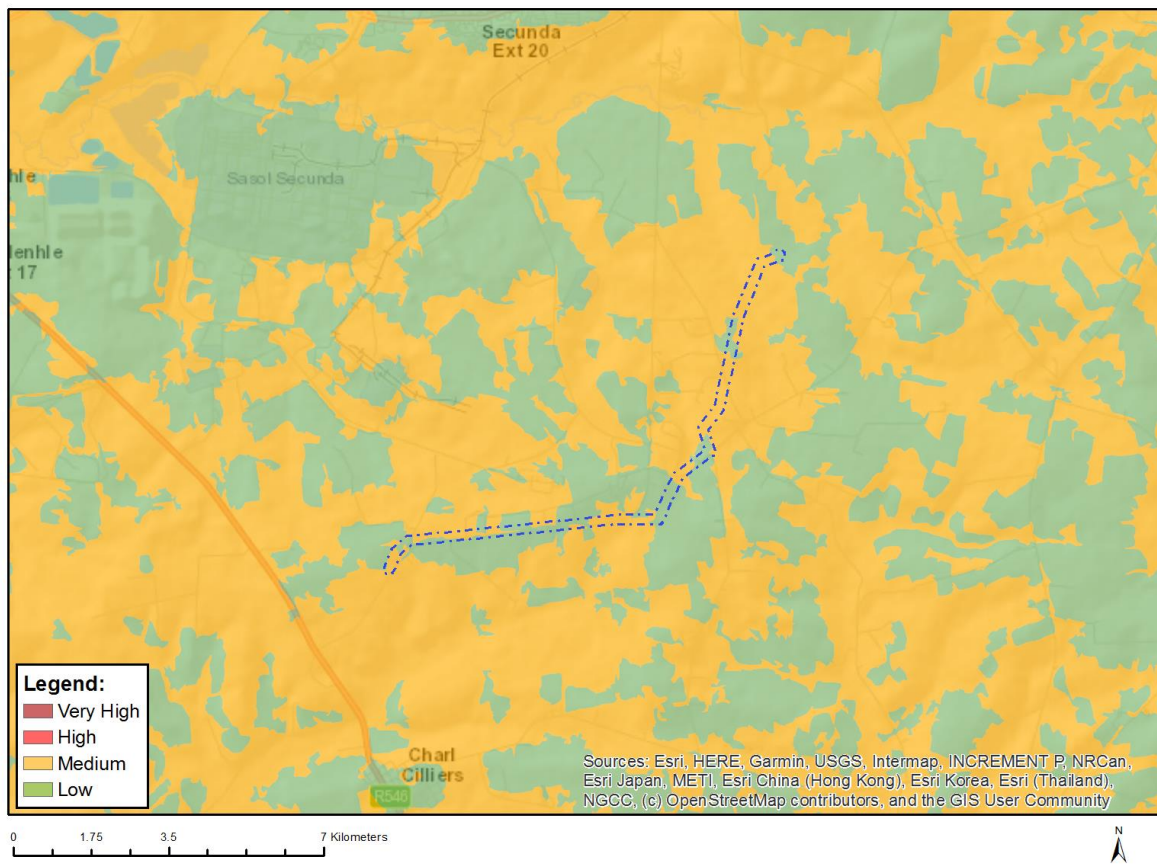


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Features with a Medium paleontological sensitivity
Very High	Features with a Very High paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



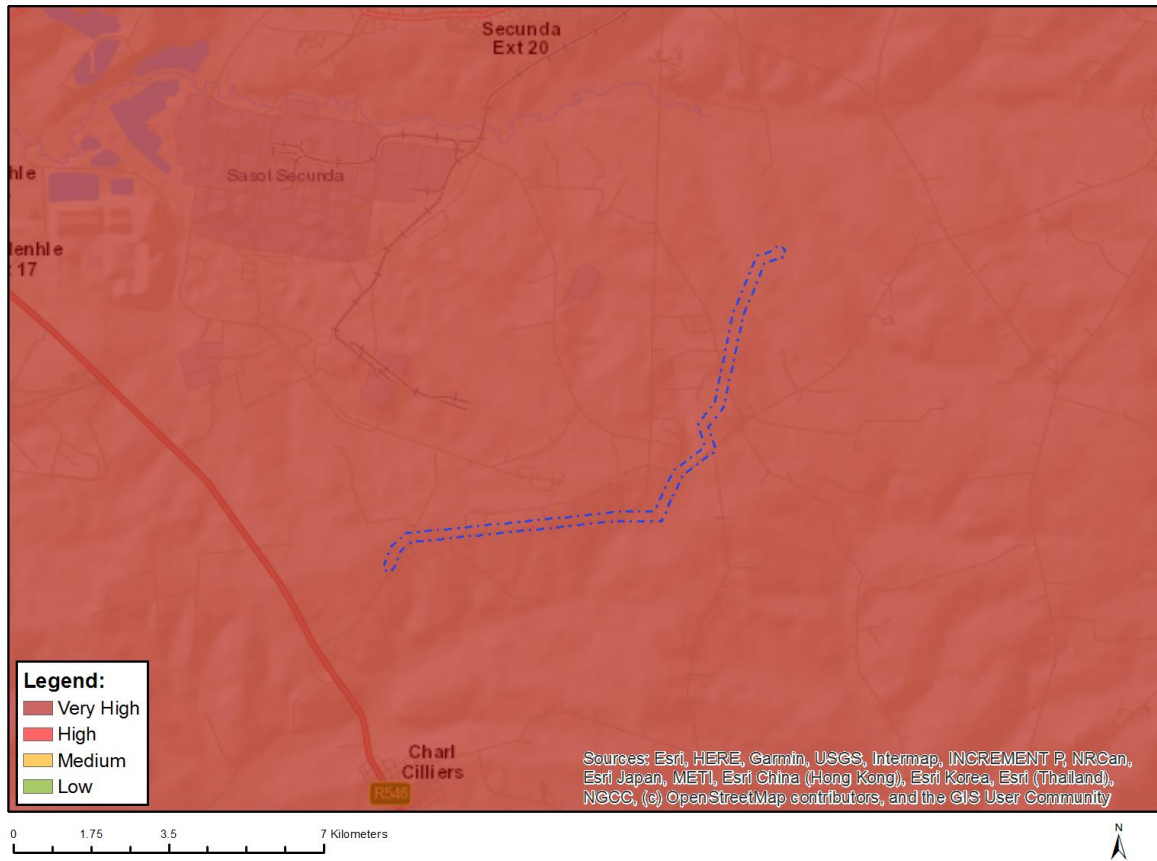
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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
Medium	Sensitive species 1252
Medium	Sensitive species 691
Medium	Pachycarpus suaveolens

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	Protected Areas Expansion Strategy
Very High	Vulnerable ecosystem