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

EIA Reference number: TBC

Project name: Draailoop Solar PV

Project title: Draailoop Solar PV

Date screening report generated: 13/03/2025 11:18:29

Applicant: Draailoop Solar PV (Pty) Ltd

Compiler: Cape EAPrac

Compiler signature: .....

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

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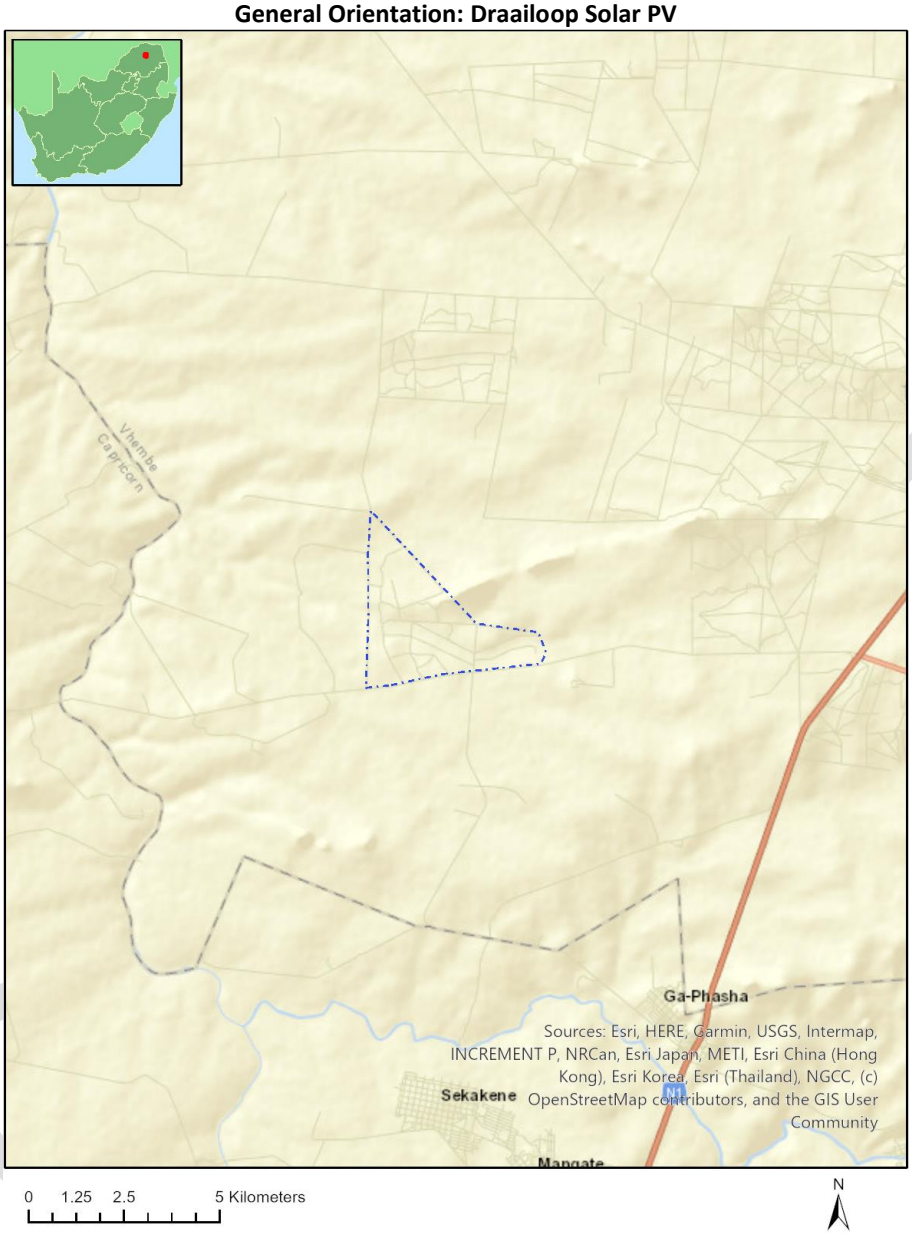
Proposed Project Location

Orientation map 1: General location

General Orientation: Draailoop Solar PV



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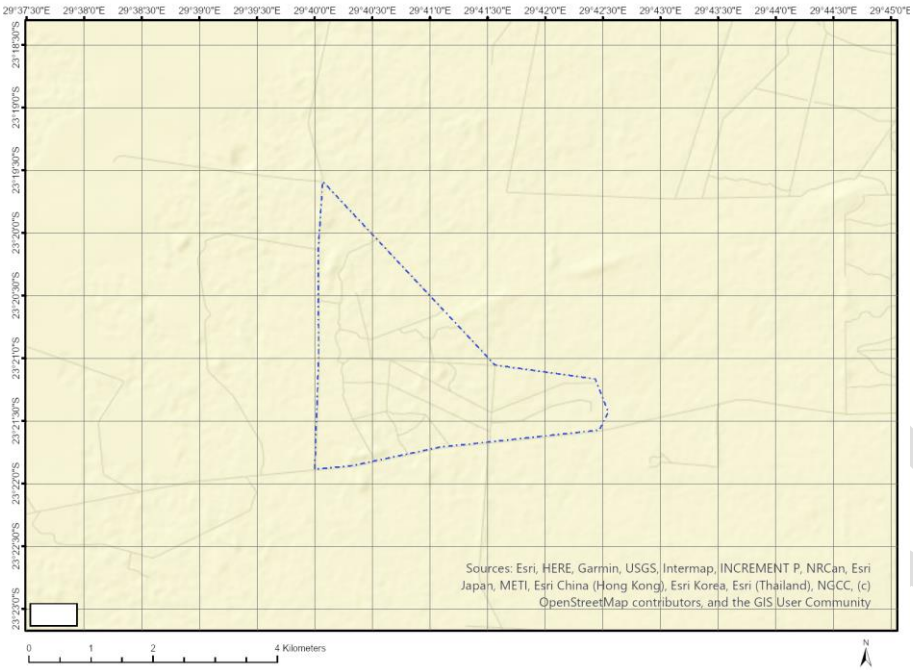
Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	MOOIMEISJESDRAAI	435	0	23°19'29.5S	29°38'39.72E	Farm
2	DASSIESHOEK	432	0	23°21'52.84S	29°39'0.18E	Farm
3	DRAAILOOP	430	0	23°20'19.21S	29°40'49.5E	Farm
4	DOORNVELD	426	0	23°20'25.45S	29°42'20.99E	Farm
5	BONNE ESPERANCE	434	0	23°20'27.79S	29°38'23.81E	Farm
6	KLIPPUT	425	0	23°21'56S	29°42'15.21E	Farm
7	BETHEL	431	0	23°21'49.56S	29°40'45.12E	Farm
8	BENAUWDHEID	429	0	23°18'52.88S	29°40'55.88E	Farm
9	KLIPPUT	425	1	23°21'47.94S	29°41'54.1E	Farm Portion
10	KLIPPUT	425	2	23°22'4.27S	29°42'36.9E	Farm Portion
11	DOORNVELD	426	1	23°20'20S	29°41'48.76E	Farm Portion
12	BENAUWDHEID	429	0	23°18'52.88S	29°40'55.88E	Farm Portion
13	DRAAILOOP	430	1	23°20'6.4S	29°41'5.87E	Farm Portion
14	DRAAILOOP	430	0	23°20'32.21S	29°40'32.87E	Farm Portion
15	BETHEL	431	0	23°21'49.56S	29°40'45.12E	Farm Portion
16	DASSIESHOEK	432	0	23°21'34.74S	29°38'59.4E	Farm Portion
17	BONNE ESPERANCE	434	0	23°20'27.79S	29°38'23.81E	Farm Portion
18	MOOIMEISJESDRAAI	435	0	23°19'29.5S	29°38'39.72E	Farm Portion

Development footprint[1] vertices:

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

No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	12/12/20/2619/AM2	Solar PV	Approved	21.3
2	14/12/16/3/3/2/2256	Solar PV	Approved	9.6
3	14/12/16/3/3/2/2093	Solar PV	Approved	3.8
4	12/12/20/2619	Solar PV	Approved	21.3

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|Substation**.

Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-International corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf

Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme		X		
Animal Species Theme		X		

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

Specialist assessments identified

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

No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
8	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

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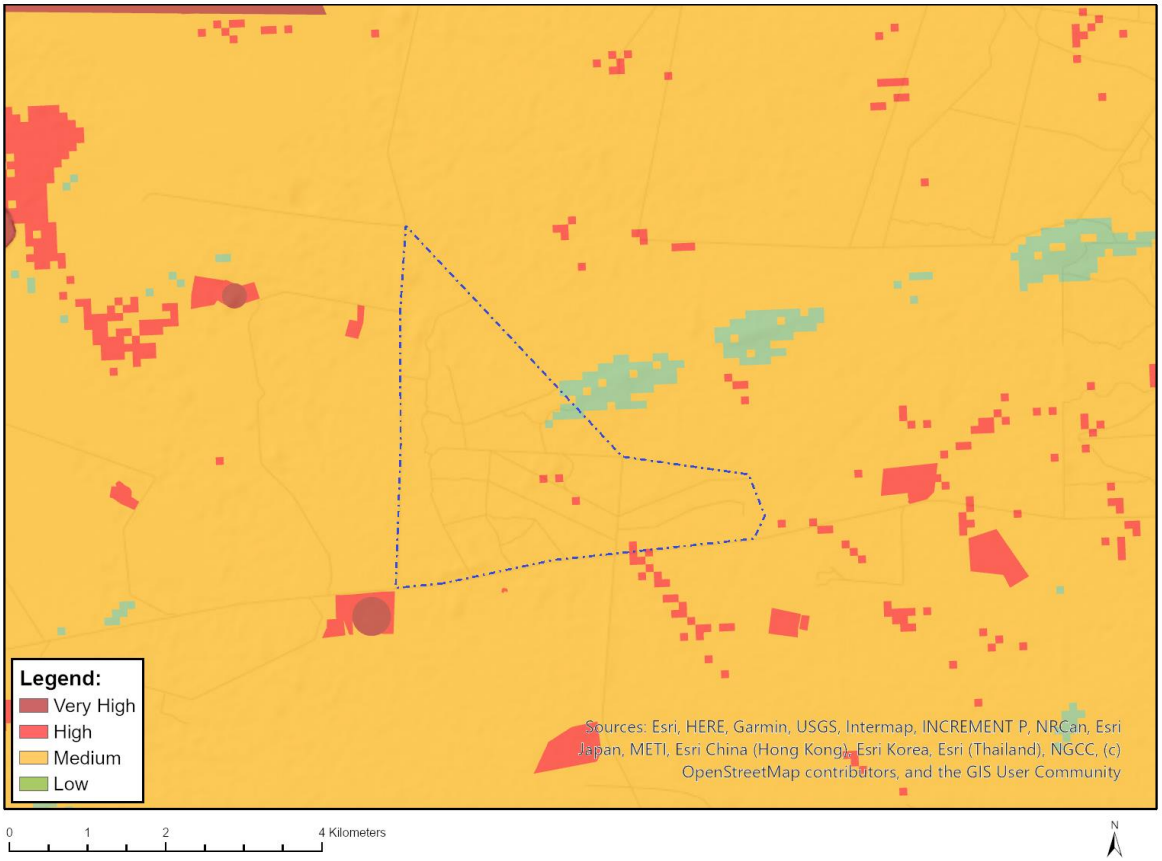
Results of the environmental sensitivity of the proposed area.

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

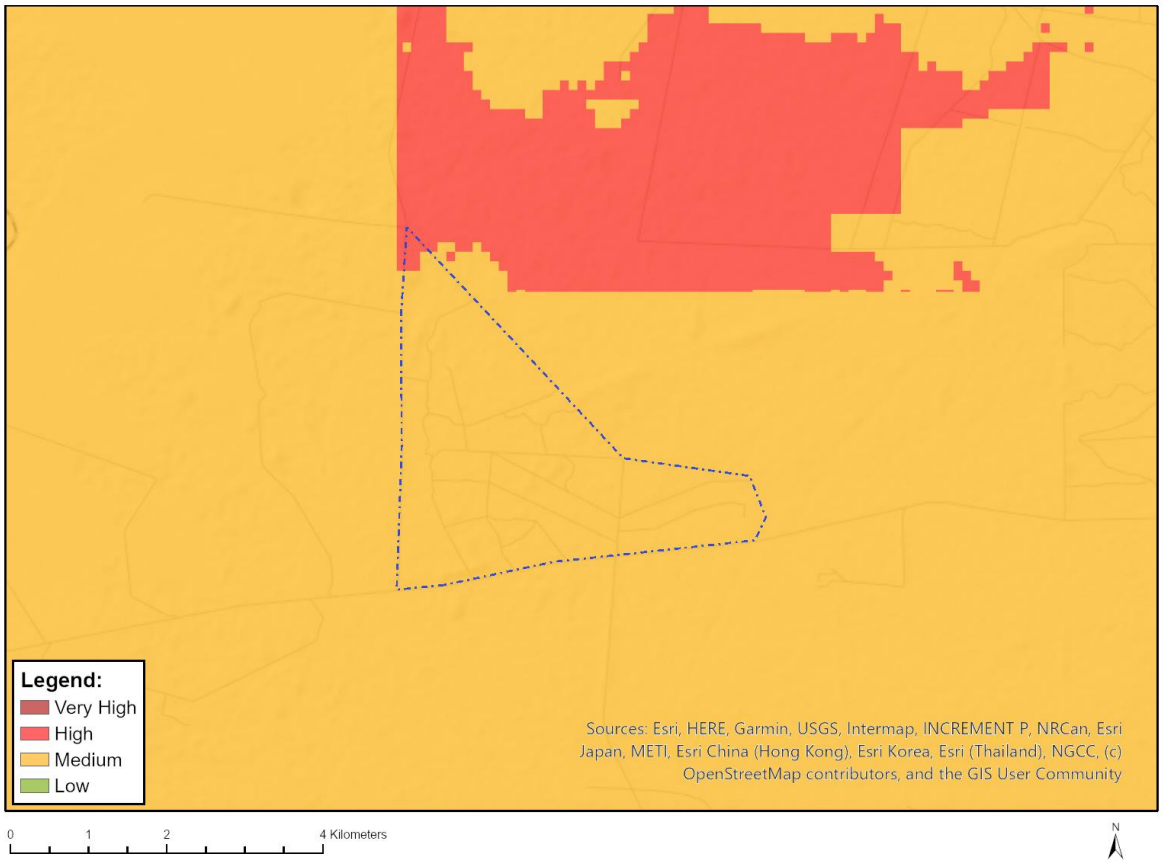


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	08. Moderate
Low	04. Low-Very low
Low	05. Low
Medium	06. Low-Moderate
Medium	07. Low-Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



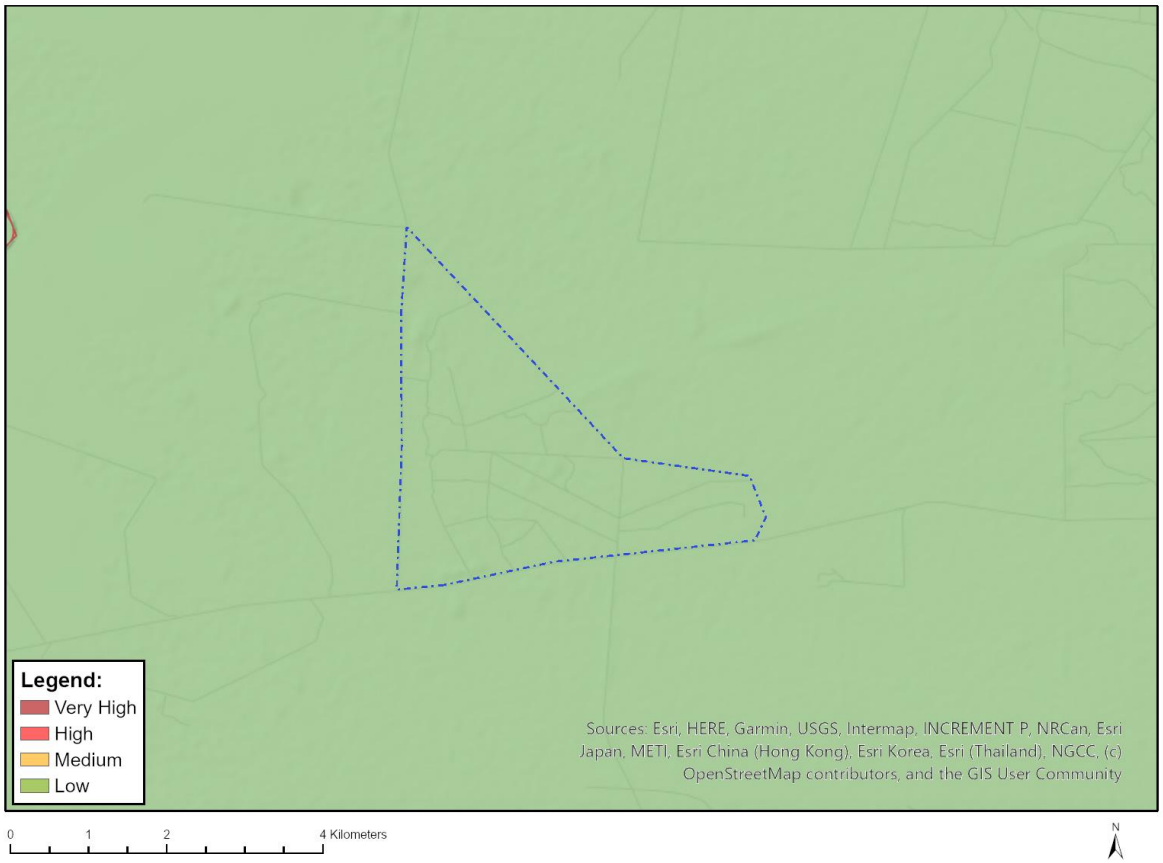
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Torgos tracheliotos
Medium	Aves-Aquila rapax
Medium	Sensitive species 5
Medium	Mammalia-Crocidura maquassiensis
Medium	Invertebrate-Thoracistus viridicrus

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_Central Bushveld Bioregion (Seep)

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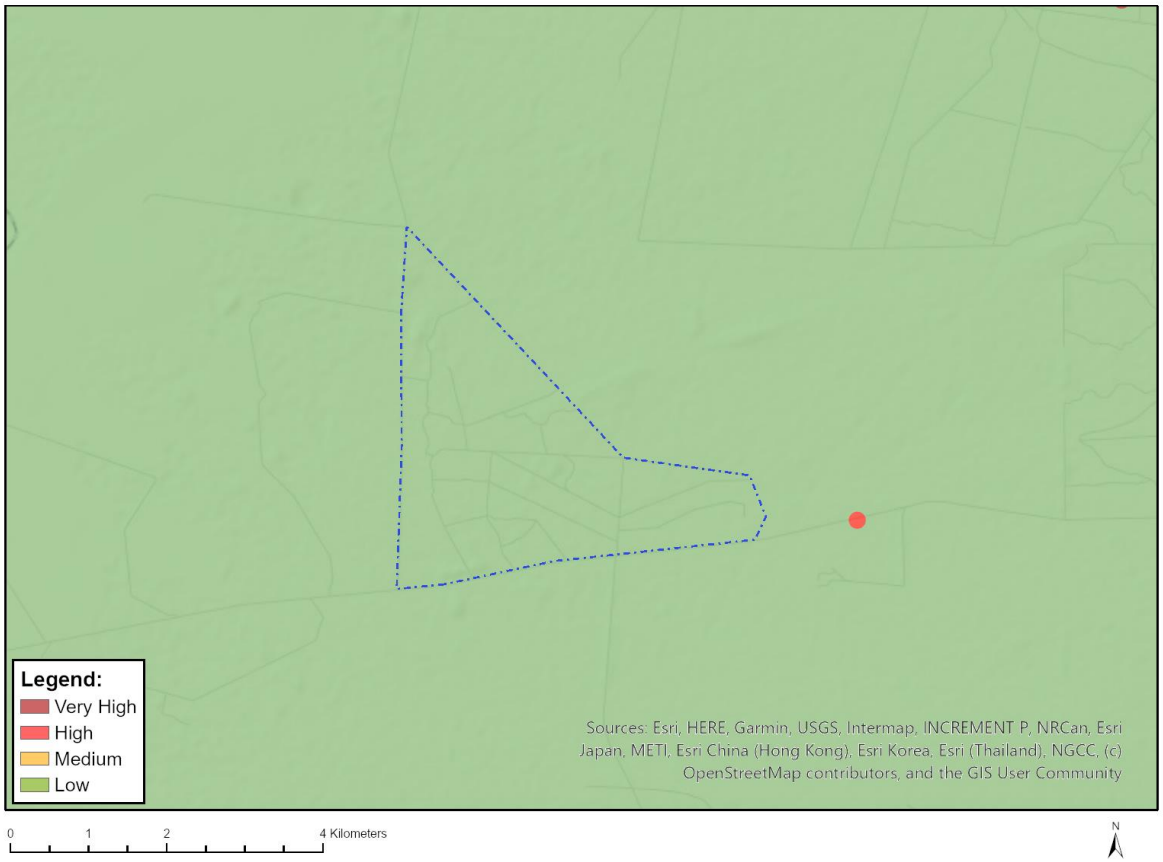
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

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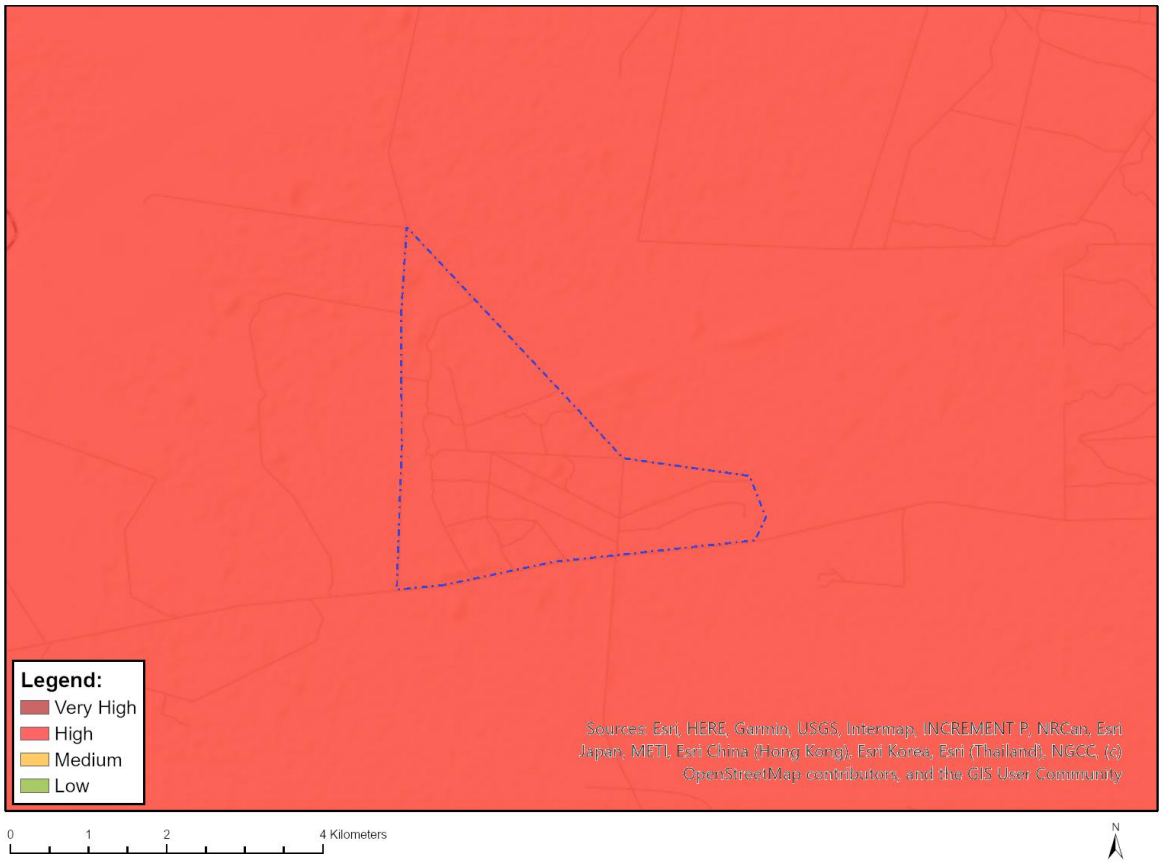
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Dangerous and restricted airspace as demarcated

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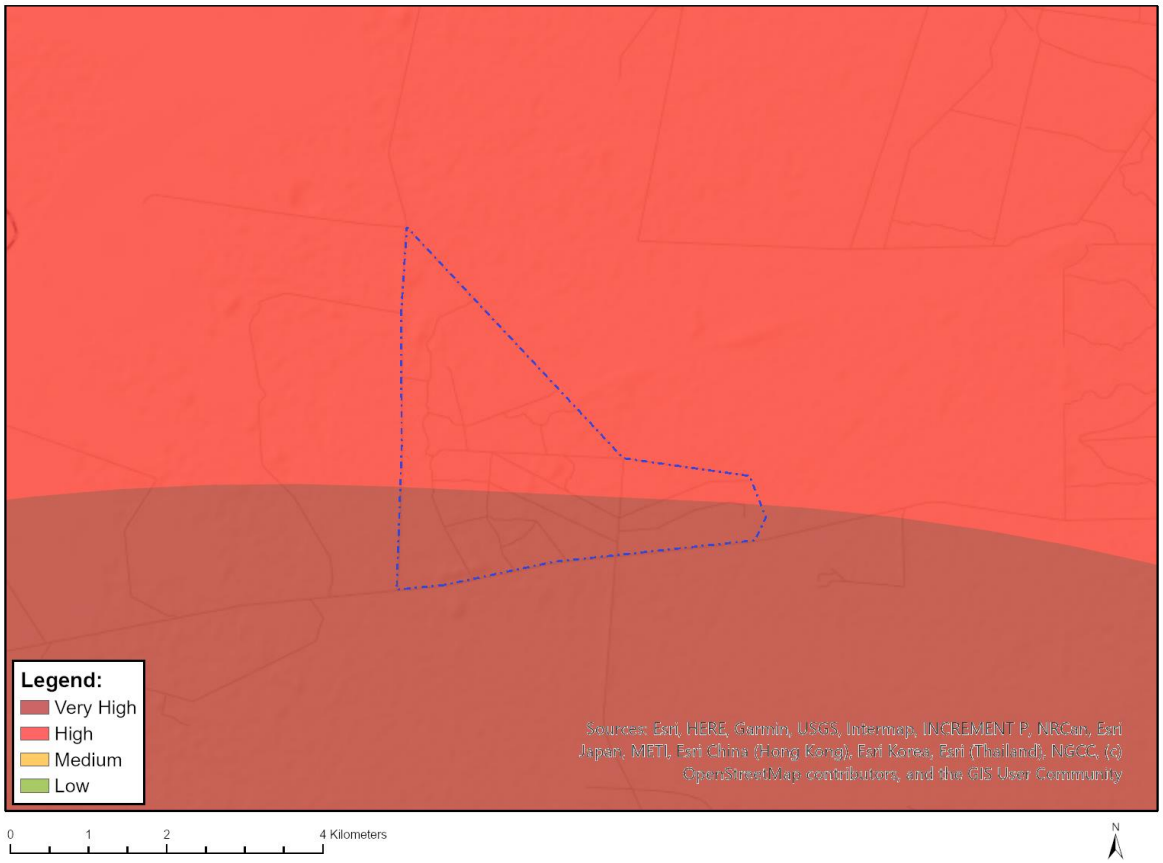
MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Military and Defence Site
Medium	Military and Defence Site
Very High	Military and Defence Site

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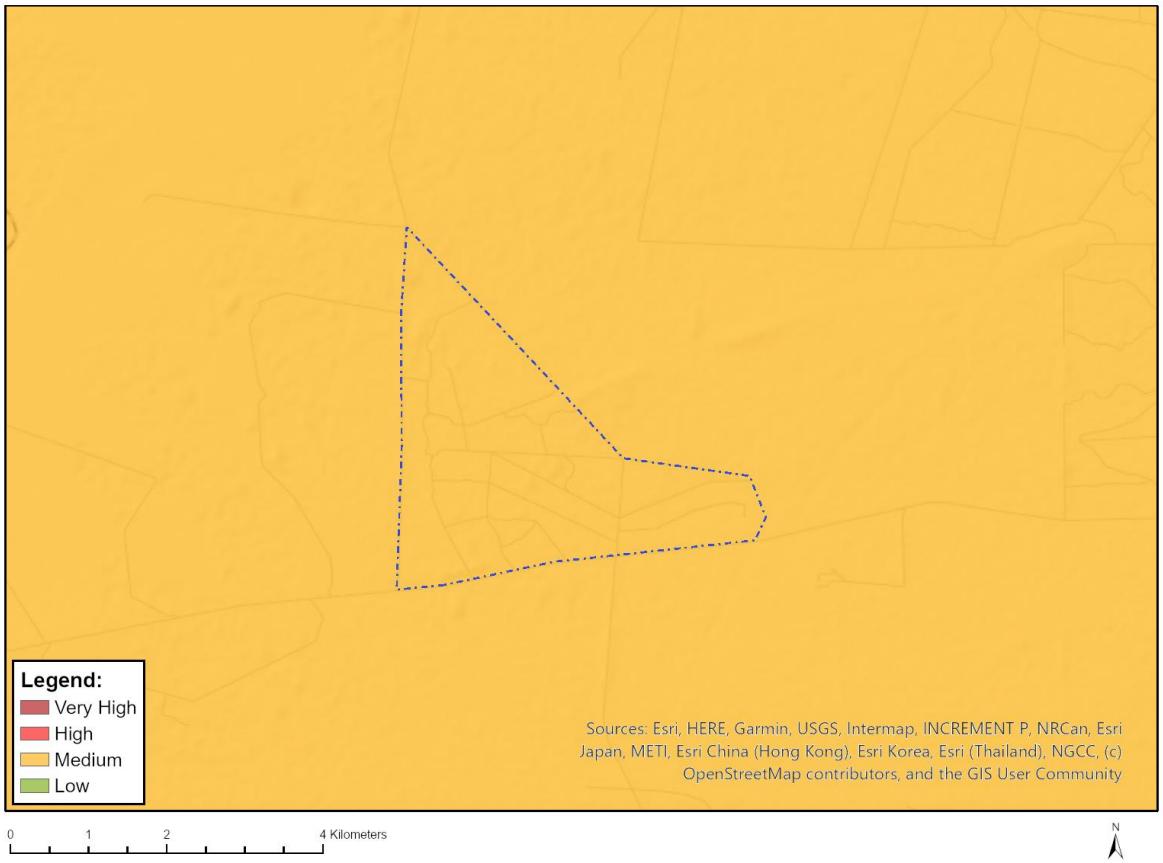
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

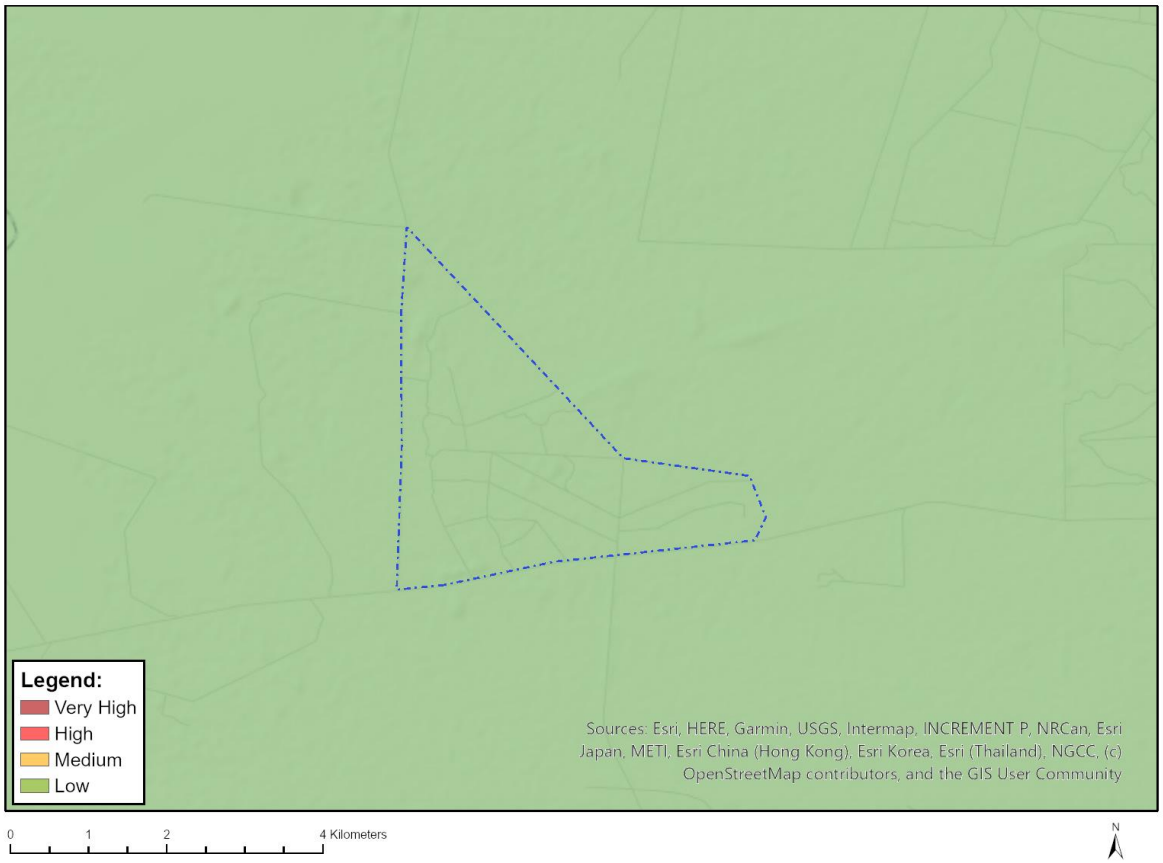


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

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



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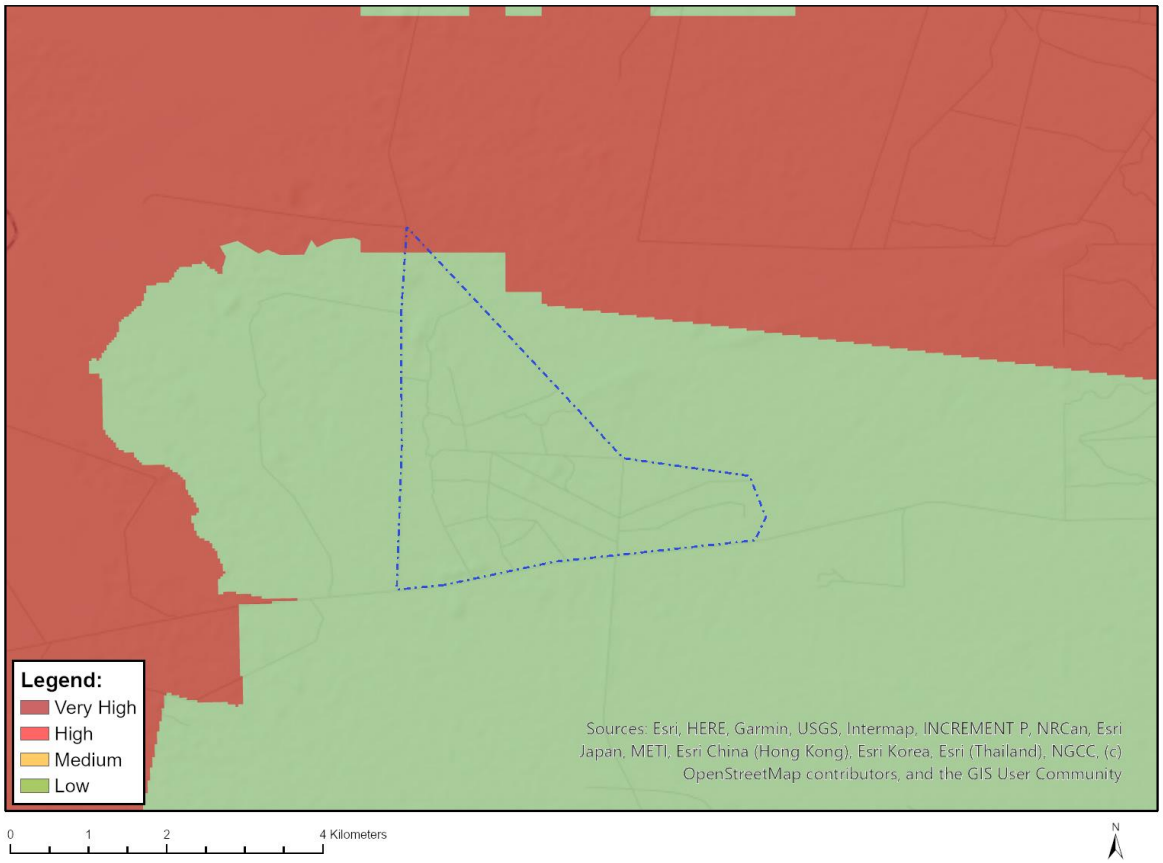
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	ESA 1

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

EIA Reference number: TBC

Project name: Electrical Grid Alternative 1

Project title: Electrical Grid Alternative 1

Date screening report generated: 13/03/2025 11:55:20

Applicant: Draailoop Solar PV, Klipput Solar PV, Bethel Solar PV, Makoppa Solar PV

Compiler: Cape EAPrac

Compiler signature: .....

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

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MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY 16

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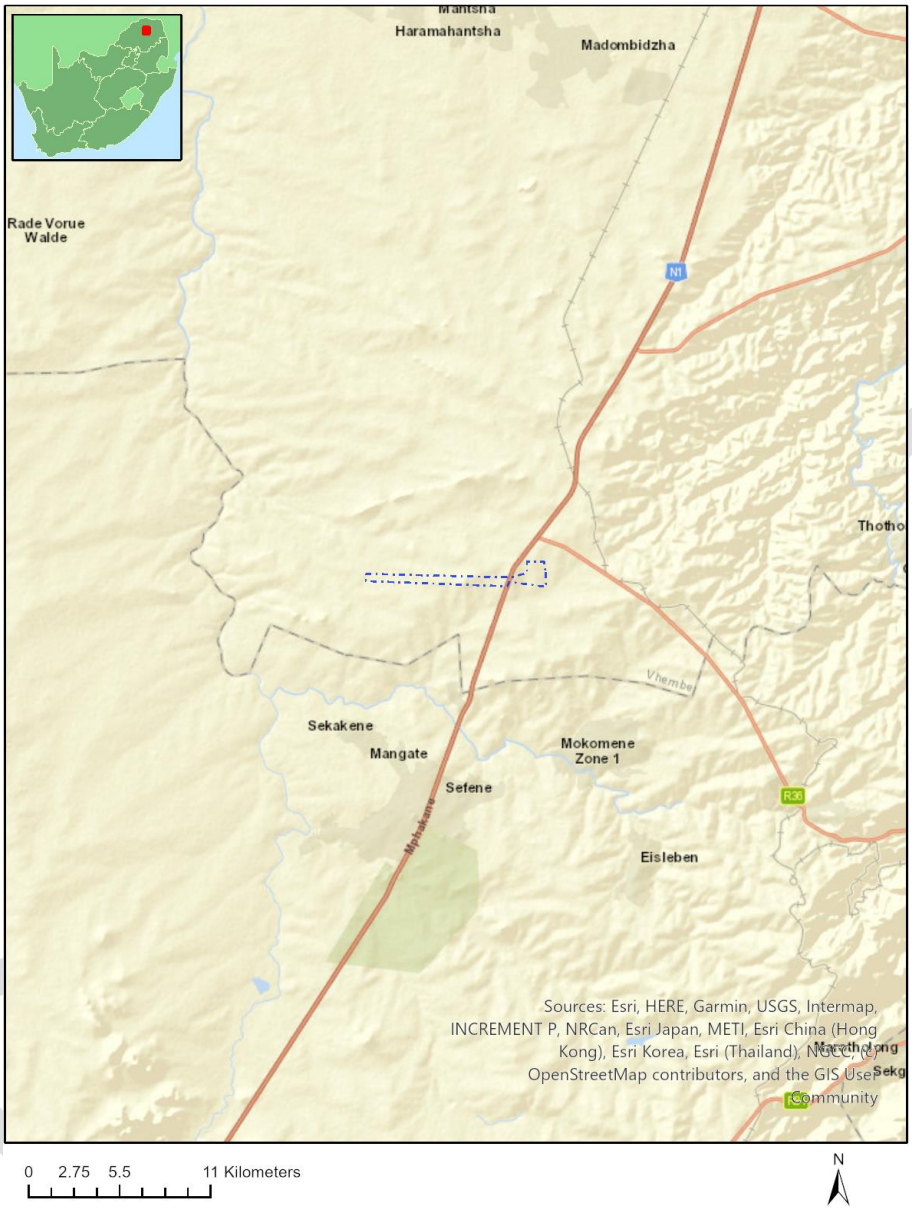
Proposed Project Location

Orientation map 1: General location

General Orientation: Electrical Grid Alternative 1



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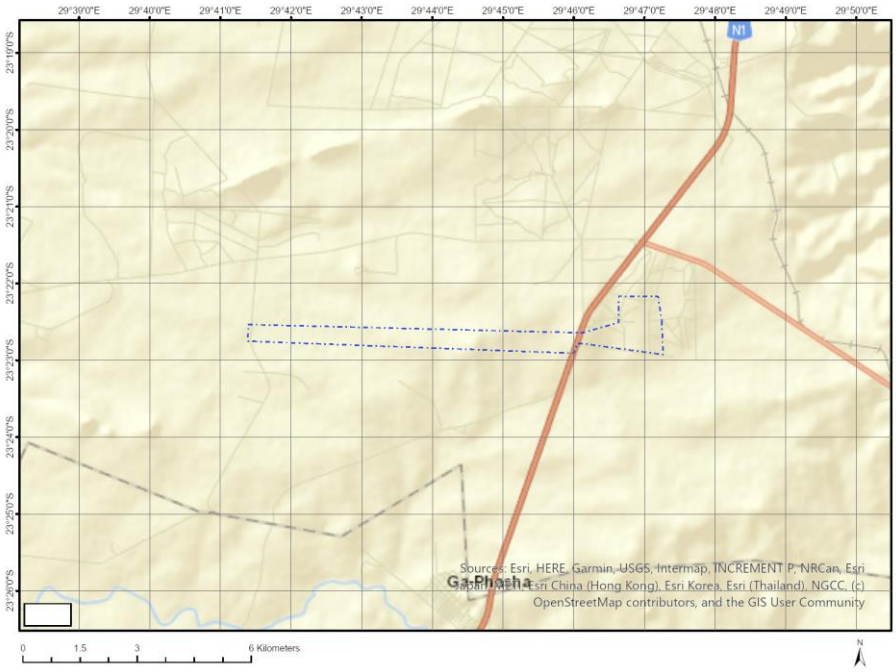
Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	BRANDHOEK	1211	0	23°22'7.29S	29°45'27.01E	Farm
2	JOPPA	473	0	23°21'44.29S	29°46'44.21E	Farm
3	LEEUWDOORNS	472	0	23°24'6.85S	29°45'37.15E	Farm
4	KLIPPUT	425	0	23°21'56S	29°42'15.21E	Farm
5	JOPPA	1209	0	23°22'10.66S	29°46'52.18E	Farm
6	BETHEL	431	0	23°21'49.56S	29°40'45.12E	Farm
7	MAKOPPA	466	0	23°23'1.92S	29°41'47.96E	Farm
8	HAAKDOORN	470	0	23°23'23.01S	29°43'48.66E	Farm
9	BELLEVUE	424	0	23°22'1.68S	29°43'48.35E	Farm
10		419	1	23°22'40.7S	29°46'4.73E	Farm Portion
11	BELLEVUE	424	0	23°22'22.13S	29°43'49.17E	Farm Portion
12	KLIPPUT	425	1	23°21'47.94S	29°41'54.1E	Farm Portion
13	KLIPPUT	425	2	23°22'4.27S	29°42'36.9E	Farm Portion
14	BETHEL	431	0	23°21'49.56S	29°40'45.12E	Farm Portion
15	MAKOPPA	466	1	23°23'7.39S	29°42'28.99E	Farm Portion
16	MAKOPPA	466	0	23°22'56.59S	29°41'8.02E	Farm Portion
17	HAAKDOORN	470	2	23°23'4.1S	29°43'54.14E	Farm Portion
18	LEEUWDOORNS	472	4	23°24'18.17S	29°45'27.46E	Farm Portion
19	LEEUWDOORNS	472	2	23°23'15.76S	29°45'10.48E	Farm Portion
20	LEEUWDOORNS	472	8	23°23'34.65S	29°45'42.52E	Farm Portion
21	LEEUWDOORNS	472	5	23°23'25.6S	29°45'46.89E	Farm Portion
22	JOPPA	473	1	23°22'37.92S	29°46'53.82E	Farm Portion
23	JOPPA	1209	0	23°22'10.66S	29°46'52.18E	Farm Portion
24	BRANDHOEK	1211	0	23°22'7.29S	29°45'27.01E	Farm Portion

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Development footprint[1] vertices:
No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	12/12/20/2619/AM2	Solar PV	Approved	12.2
2	14/12/16/3/3/2/2256	Solar PV	Approved	1.8
3	14/12/16/3/3/2/2093	Solar PV	Approved	0
4	12/12/20/2619	Solar PV	Approved	12.2

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|Substation**.

Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-International corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf
Main Electricity Transmission Substation	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Distribution_Transmission.pdf

Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the

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

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proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme		X		
Animal Species Theme			X	
Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme		X		
Defence Theme	X			
Paleontology Theme			X	
Plant Species Theme				X
Terrestrial Biodiversity Theme				X

Specialist assessments identified

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

No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
8	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

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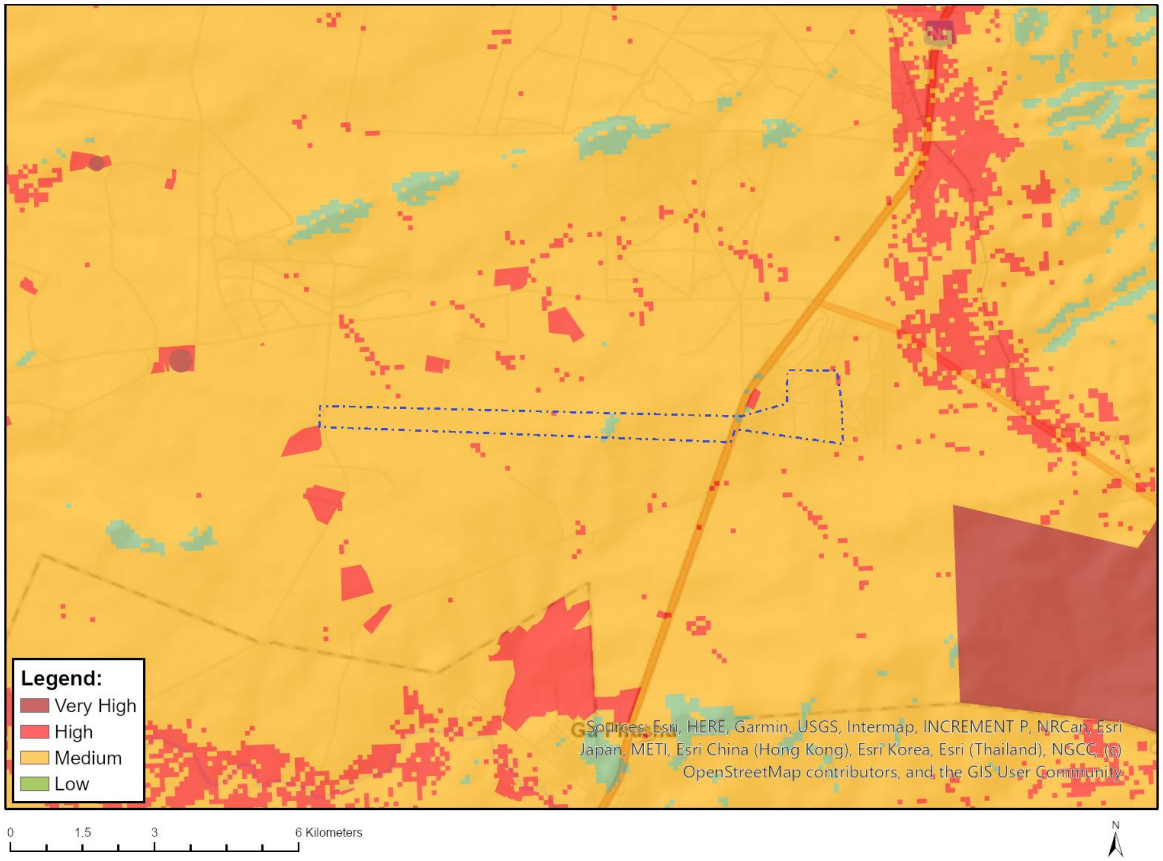
Results of the environmental sensitivity of the proposed area.

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

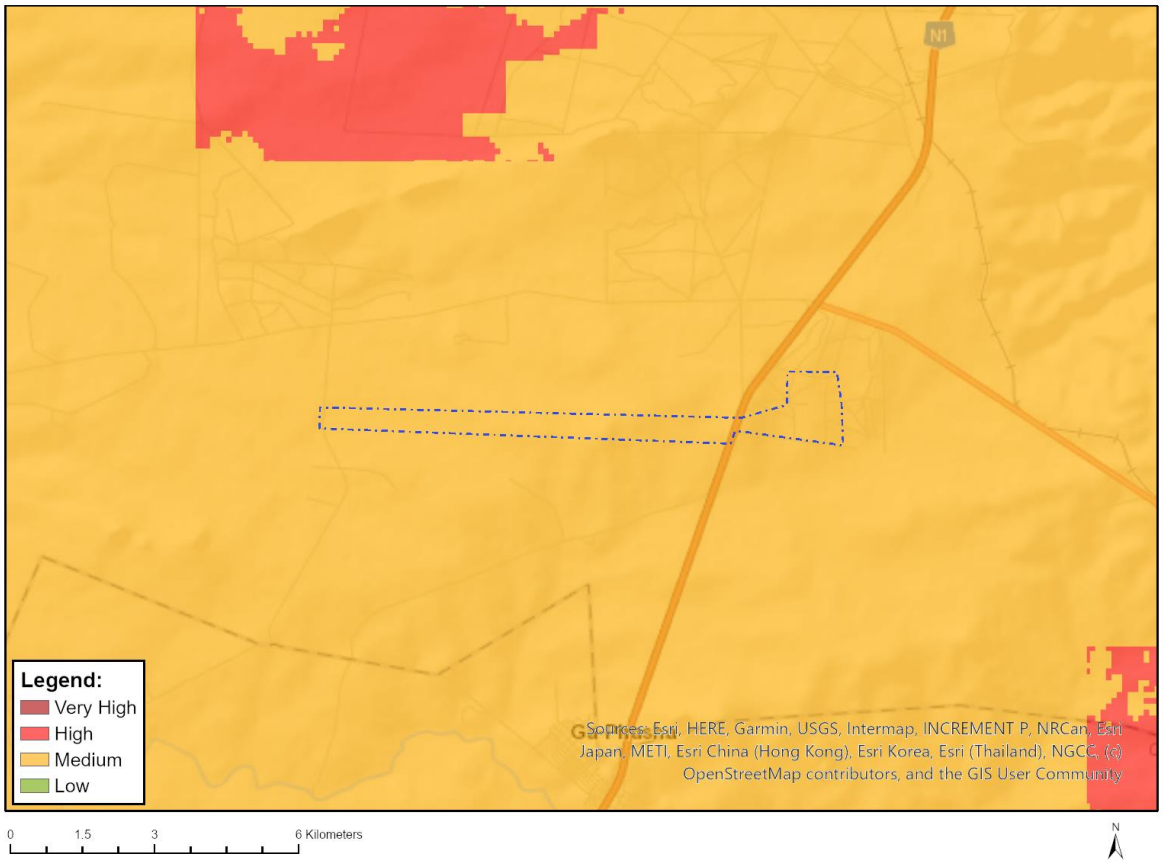


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Rainfed Annual Crop Cultivation / Planted Pastures
High	08. Moderate
Low	05. Low
Medium	06. Low-Moderate
Medium	07. Low-Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Sensitive species 5
Medium	Mammalia-Crocidura maquassiensis
Medium	Invertebrate-Thoracistus viridicrus

Disclaimer applies
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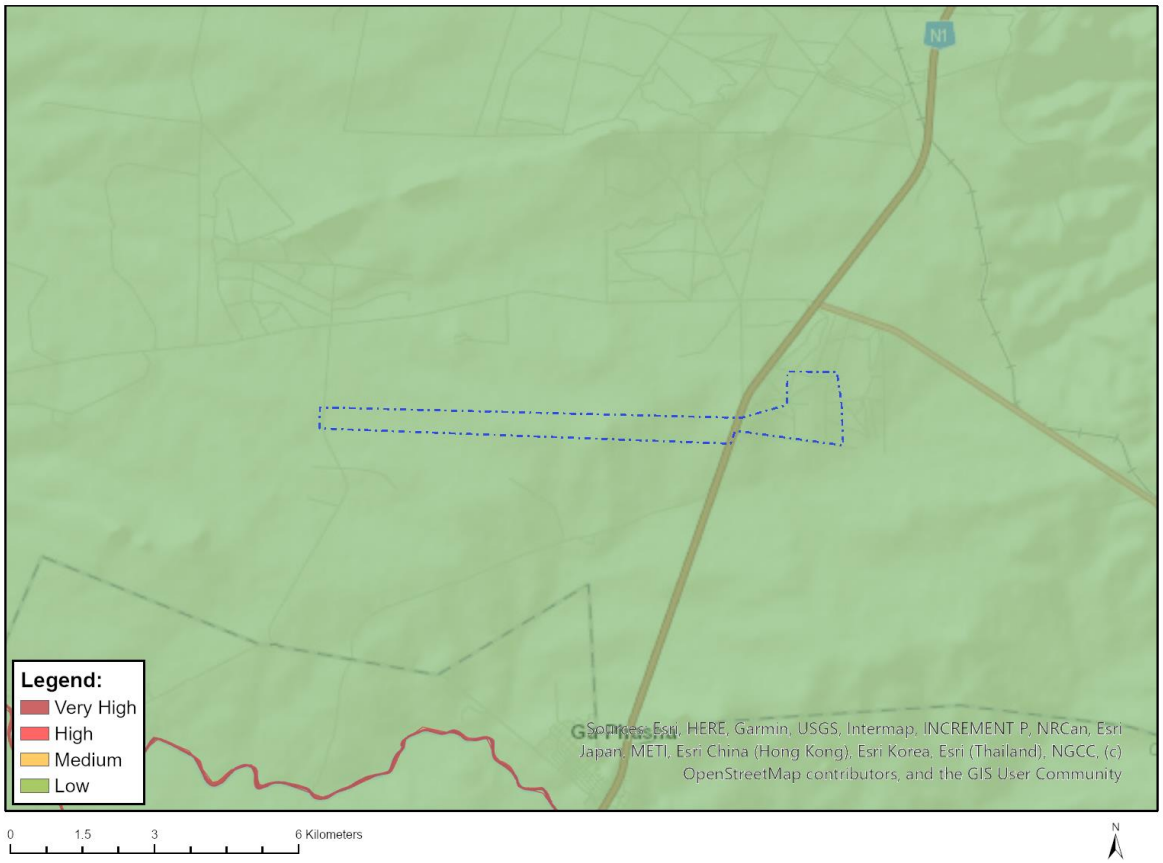
MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

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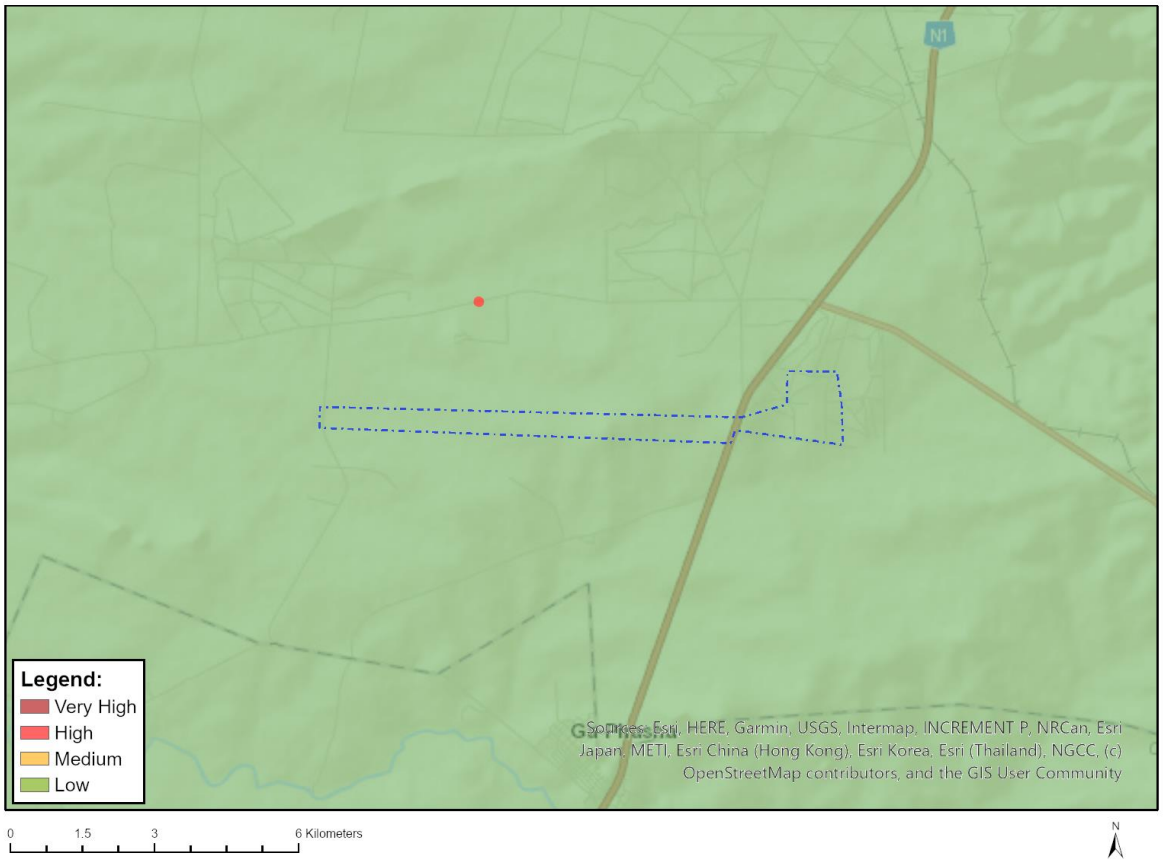
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

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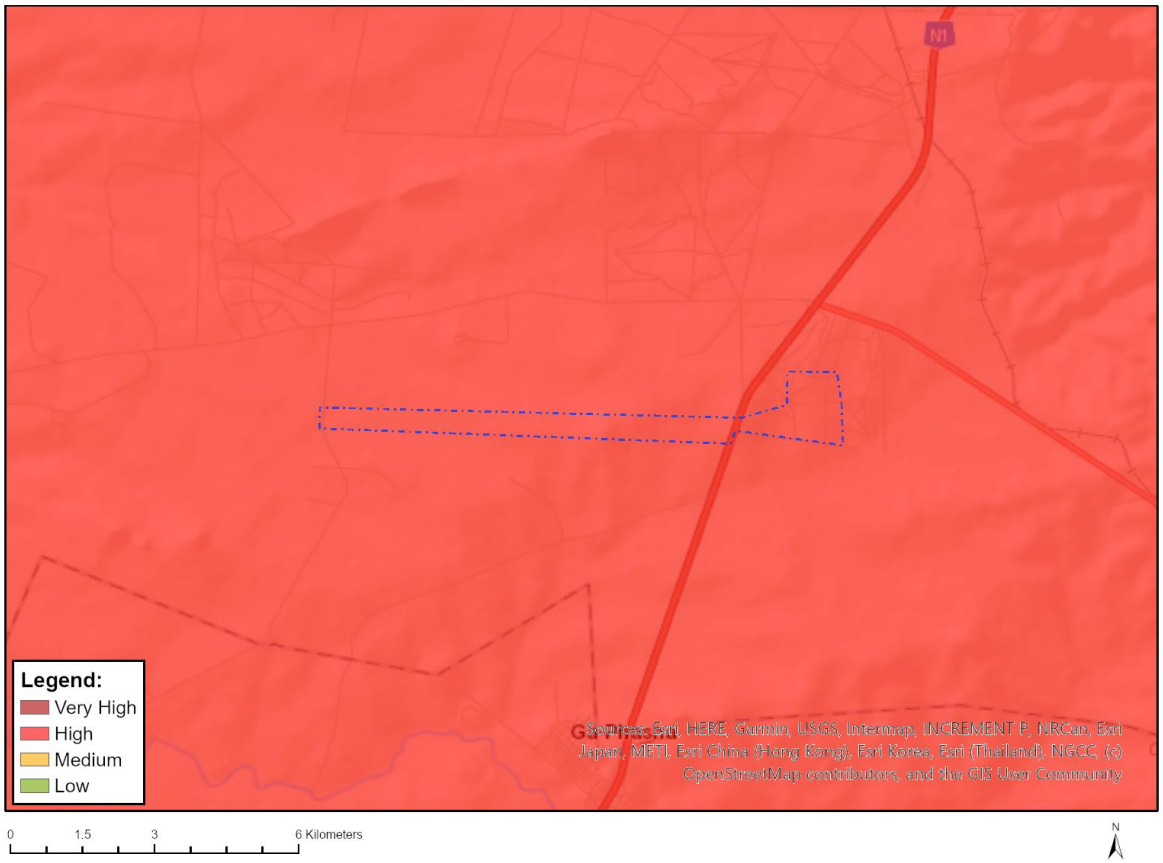
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Dangerous and restricted airspace as demarcated

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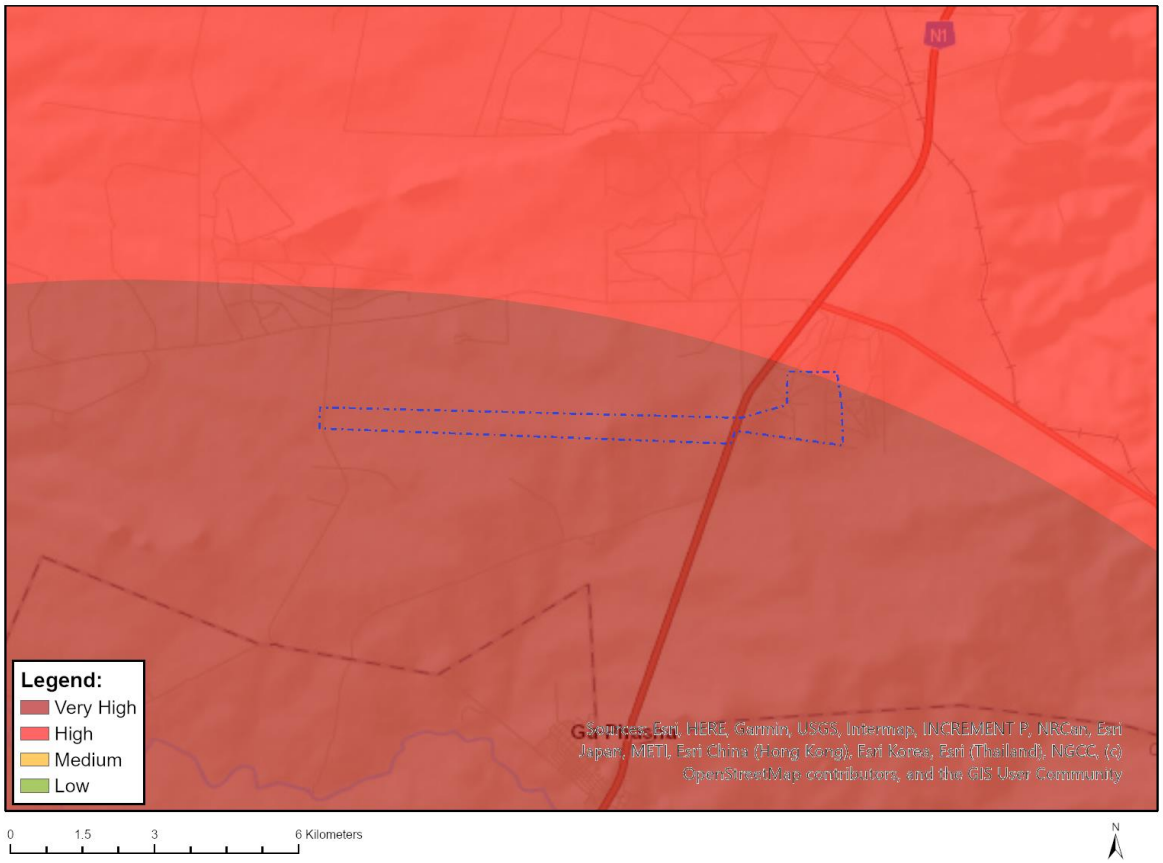
MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Military and Defence Site
Medium	Military and Defence Site
Very High	Military and Defence Site

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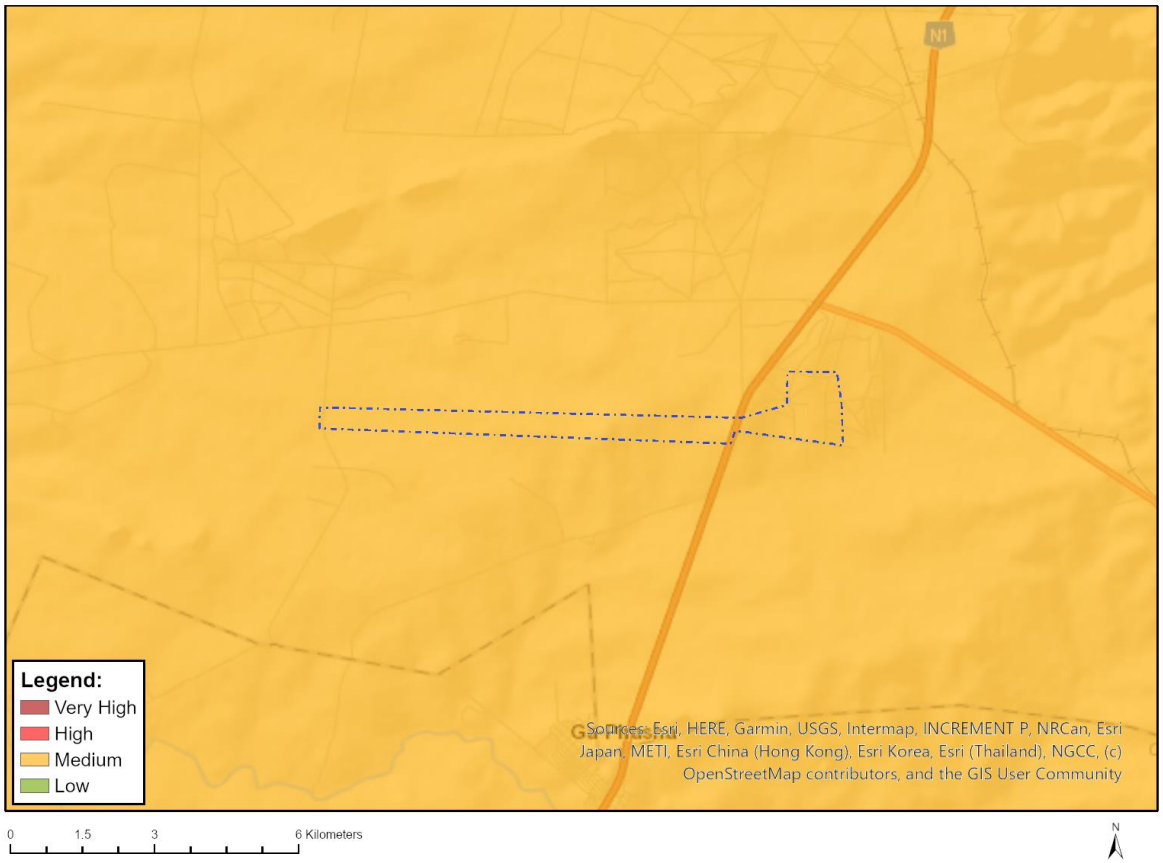
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY



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

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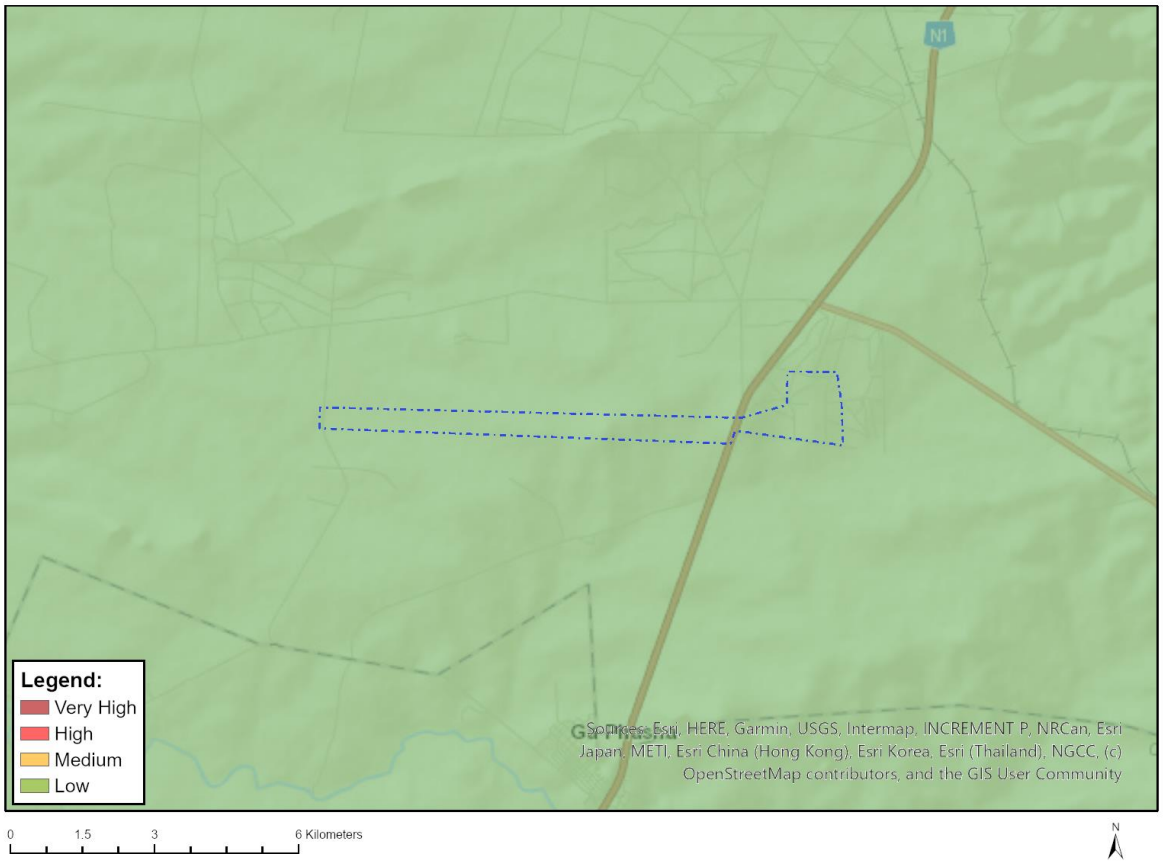
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

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

EIA Reference number: TBC

Project name: Electrical Grid Alternative 2

Project title: Electrical Grid Alternative 2

Date screening report generated: 13/03/2025 12:22:46

Applicant: Draailoop Solar PV, Klipput Solar PV, Bethel Solar PV, Makoppa Solar PV

Compiler: Cape EAPrac

Compiler signature: .....

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

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MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY 16

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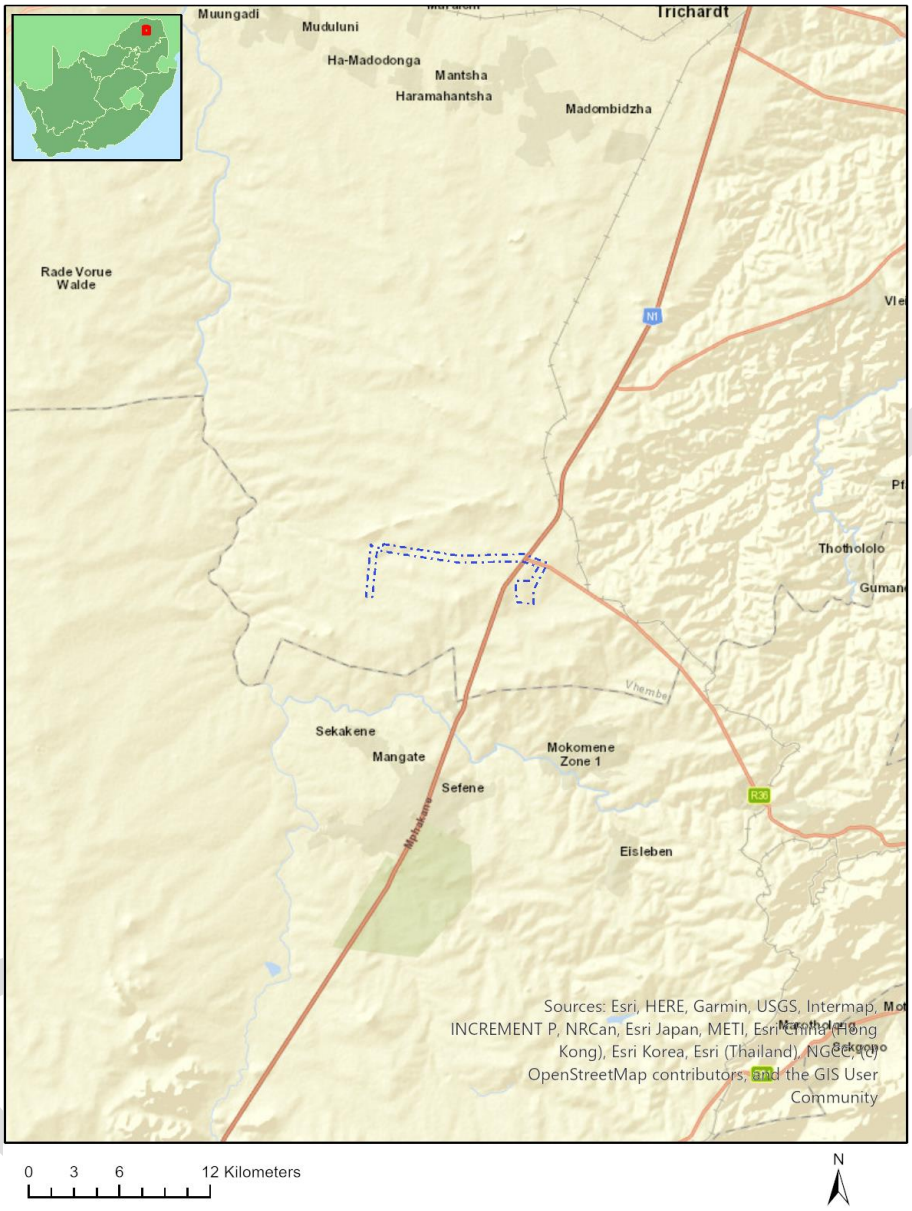
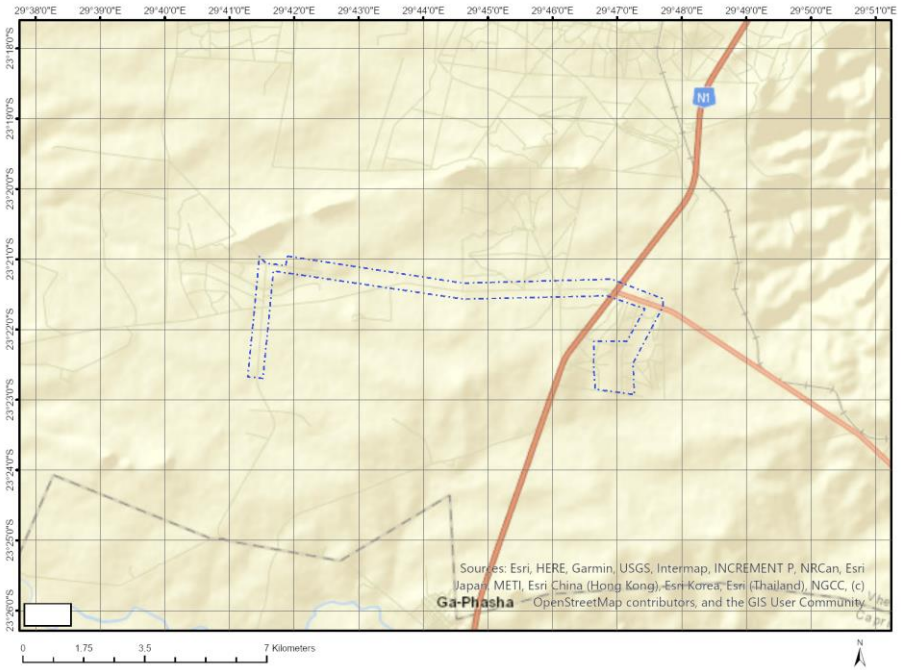
Proposed Project Location

Orientation map 1: General location

General Orientation: Electrical Grid 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	DRAAILOOP	430	0	23°20'19.21S	29°40'49.5E	Farm
2	DOORNVELD	426	0	23°20'25.45S	29°42'20.99E	Farm
3	BRANDHOEK	1211	0	23°22'7.29S	29°45'27.01E	Farm
4	JOPPA	473	0	23°21'44.29S	29°46'44.21E	Farm
5	KLIPPUT	425	0	23°21'56S	29°42'15.21E	Farm
6	JOPPA	1209	0	23°22'10.66S	29°46'52.18E	Farm
7	BETHEL	431	0	23°21'49.56S	29°40'45.12E	Farm
8	LANNGEDACHT	1210	0	23°20'40.29S	29°48'36.1E	Farm
9	GROENEPUNT	423	0	23°20'32.56S	29°43'51.18E	Farm
10	MAKOPPA	466	0	23°23'1.92S	29°41'47.96E	Farm
11	VLUCHTKRAAL	420	0	23°20'31.8S	29°45'28.08E	Farm
12	VRYHEID	418	0	23°20'30.43S	29°47'14.42E	Farm
13	BELLEVUE	424	0	23°22'1.68S	29°43'48.35E	Farm
14	VRYHEID	418	0	23°20'7.18S	29°47'6.39E	Farm Portion
15	VRYHEID	418	1	23°20'13.27S	29°48'0.66E	Farm Portion
16	VLUCHTKRAAL	420	0	23°20'31.8S	29°45'28.08E	Farm Portion
17	GROENEPUNT	423	0	23°20'19.32S	29°43'45.73E	Farm Portion
18	GROENEPUNT	423	1	23°21'4.42S	29°44'4.35E	Farm Portion
19	BELLEVUE	424	1	23°21'40.66S	29°43'47.5E	Farm Portion
20	KLIPPUT	425	1	23°21'47.94S	29°41'54.1E	Farm Portion
21	KLIPPUT	425	2	23°22'4.27S	29°42'36.9E	Farm Portion
22	DOORNVELD	426	1	23°20'20S	29°41'48.76E	Farm Portion
23	DOORNVELD	426	0	23°20'27.34S	29°42'32.19E	Farm Portion
24	DRAAILOOP	430	0	23°20'32.21S	29°40'32.87E	Farm Portion
25	BETHEL	431	0	23°21'49.56S	29°40'45.12E	Farm Portion
26	MAKOPPA	466	0	23°22'56.59S	29°41'8.02E	Farm Portion
27	JOPPA	473	1	23°22'37.92S	29°46'53.82E	Farm Portion
28	JOPPA	473	4	23°22'0.19S	29°46'29.91E	Farm Portion

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29	JOPPA	473	8	23°21'37.33S	29°47'29.81E	Farm Portion
30	JOPPA	473	5	23°21'28.89S	29°47'2.61E	Farm Portion
31	JOPPA	1209	0	23°22'10.66S	29°46'52.18E	Farm Portion
32	LANNGEDACHT	1210	0	23°20'40.29S	29°48'36.1E	Farm Portion
33	BRANDHOEK	1211	0	23°22'7.29S	29°45'27.01E	Farm Portion

Development footprint[1] vertices:
No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	12/12/20/2619/AM2	Solar PV	Approved	12.2
2	14/12/16/3/3/2/2256	Solar PV	Approved	0.3
3	14/12/16/3/3/2/2093	Solar PV	Approved	0
4	12/12/20/2619	Solar PV	Approved	12.2

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|Substation**.

Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-International corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf
Main Electricity	https://screening.environment.gov.za/ScreeningDownloads/Developmen

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

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Transmission Substation	tZones/Distribution_Transmission.pdf

Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme		X		
Animal Species Theme			X	
Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme		X		
Defence Theme	X			
Paleontology Theme			X	
Plant Species Theme				X
Terrestrial Biodiversity Theme				X

Specialist assessments identified

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

No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse

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		ssmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
8	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

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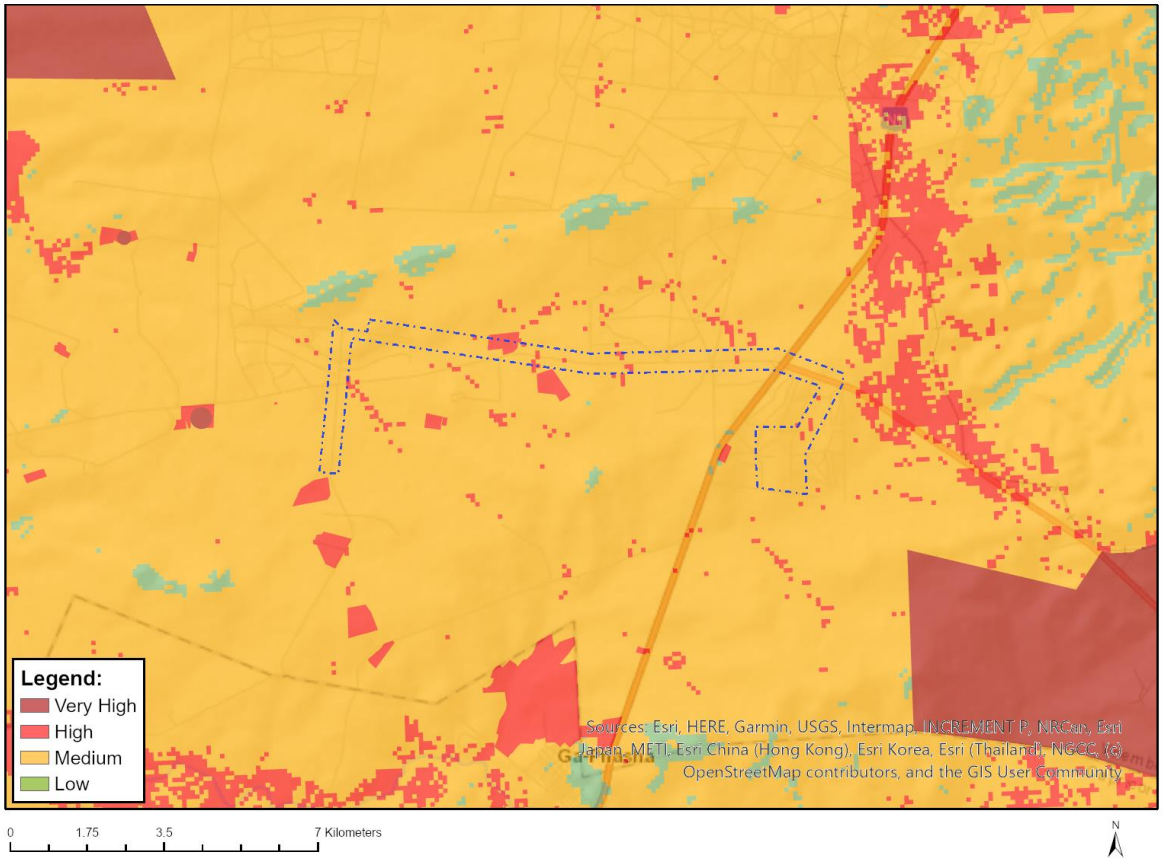
Results of the environmental sensitivity of the proposed area.

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

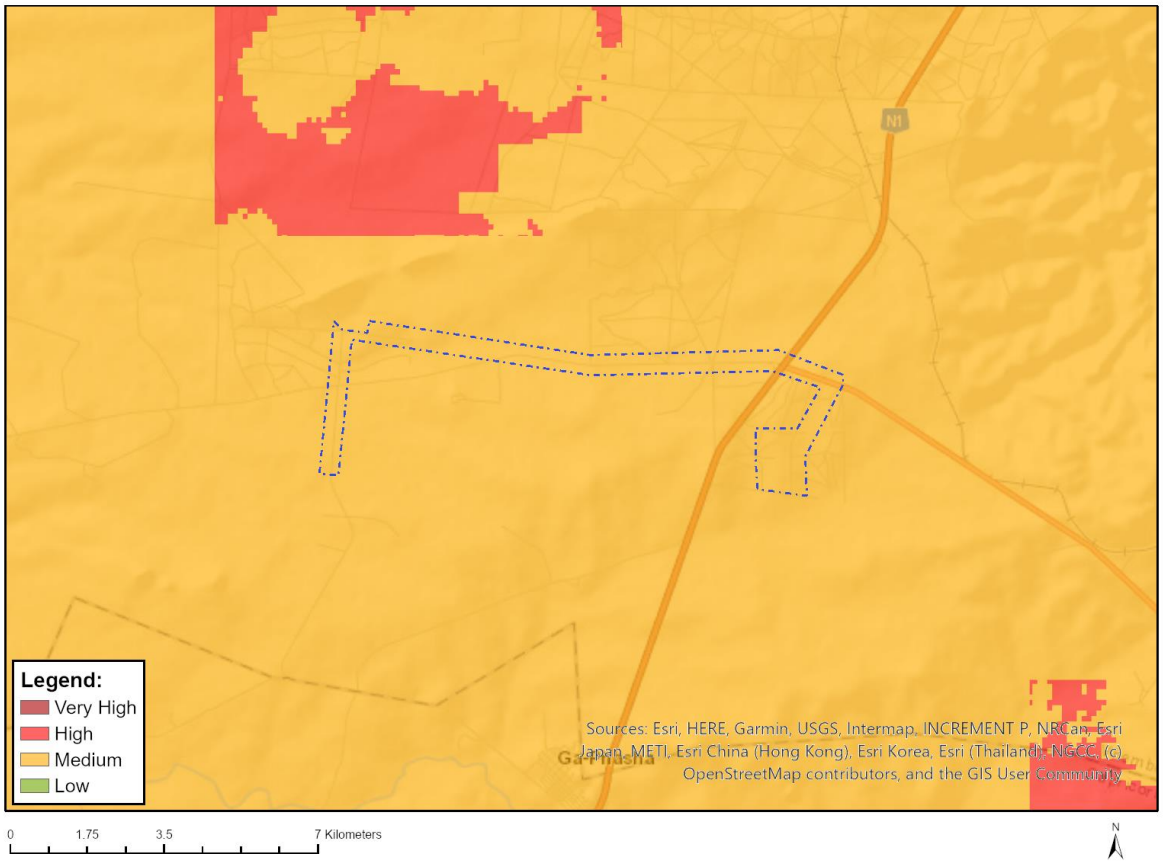


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Rainfed Annual Crop Cultivation / Planted Pastures
High	08. Moderate
Medium	06. Low-Moderate
Medium	07. Low-Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



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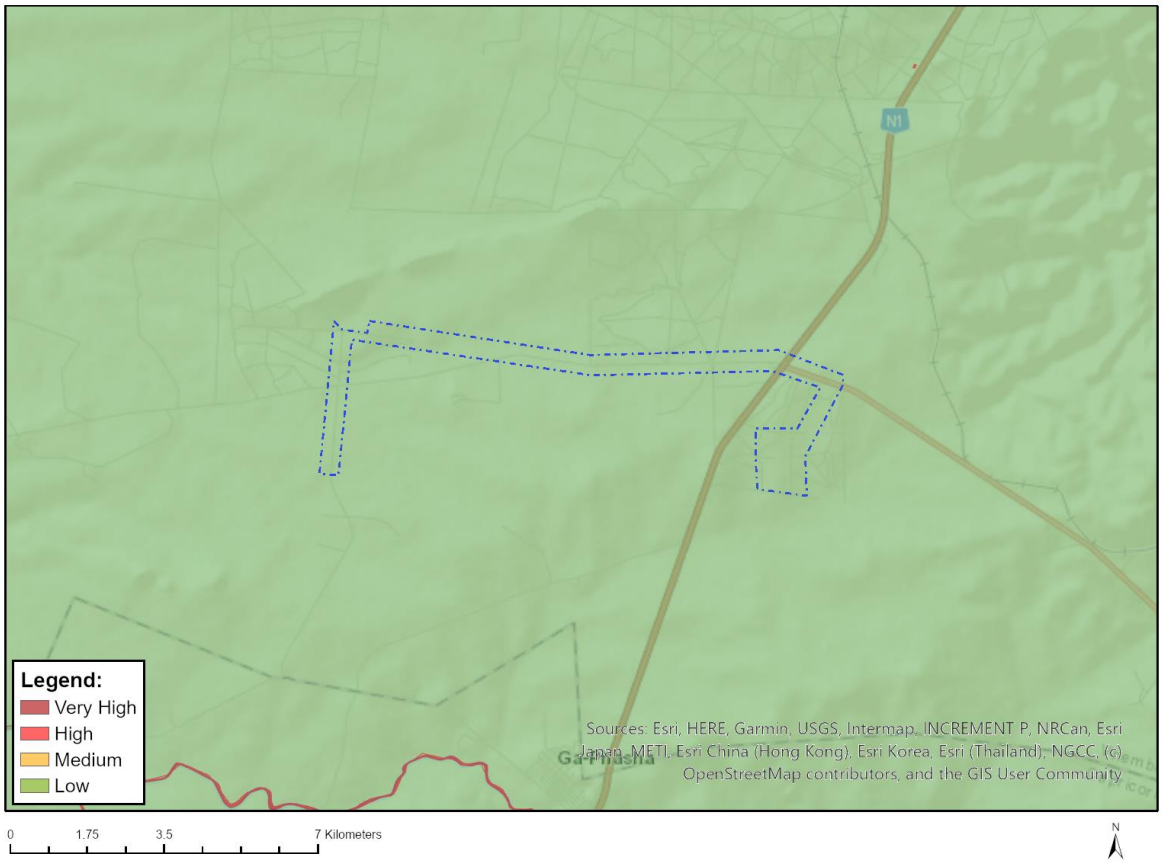
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Aves-Aquila rapax
Medium	Sensitive species 5
Medium	Mammalia-Crocidura maquassiensis
Medium	Invertebrate-Thoracistus viridicrus

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

Disclaimer applies
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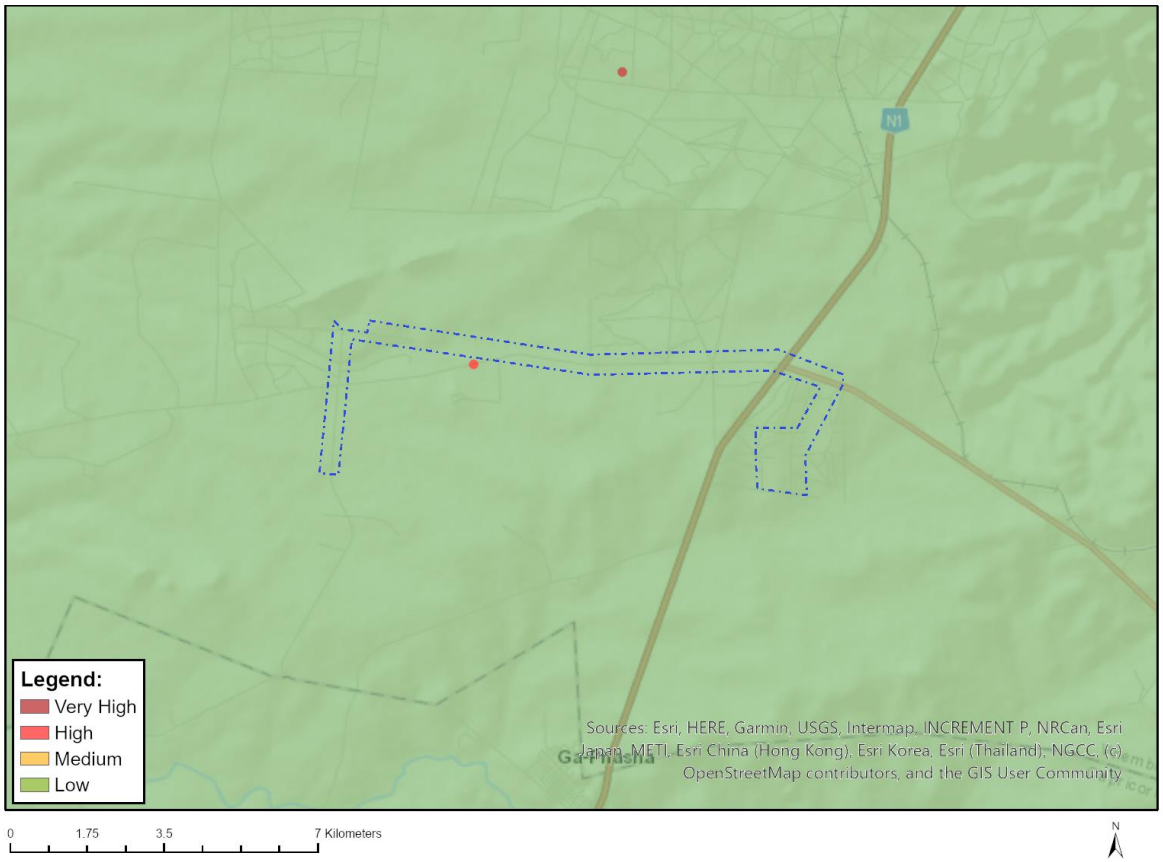
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



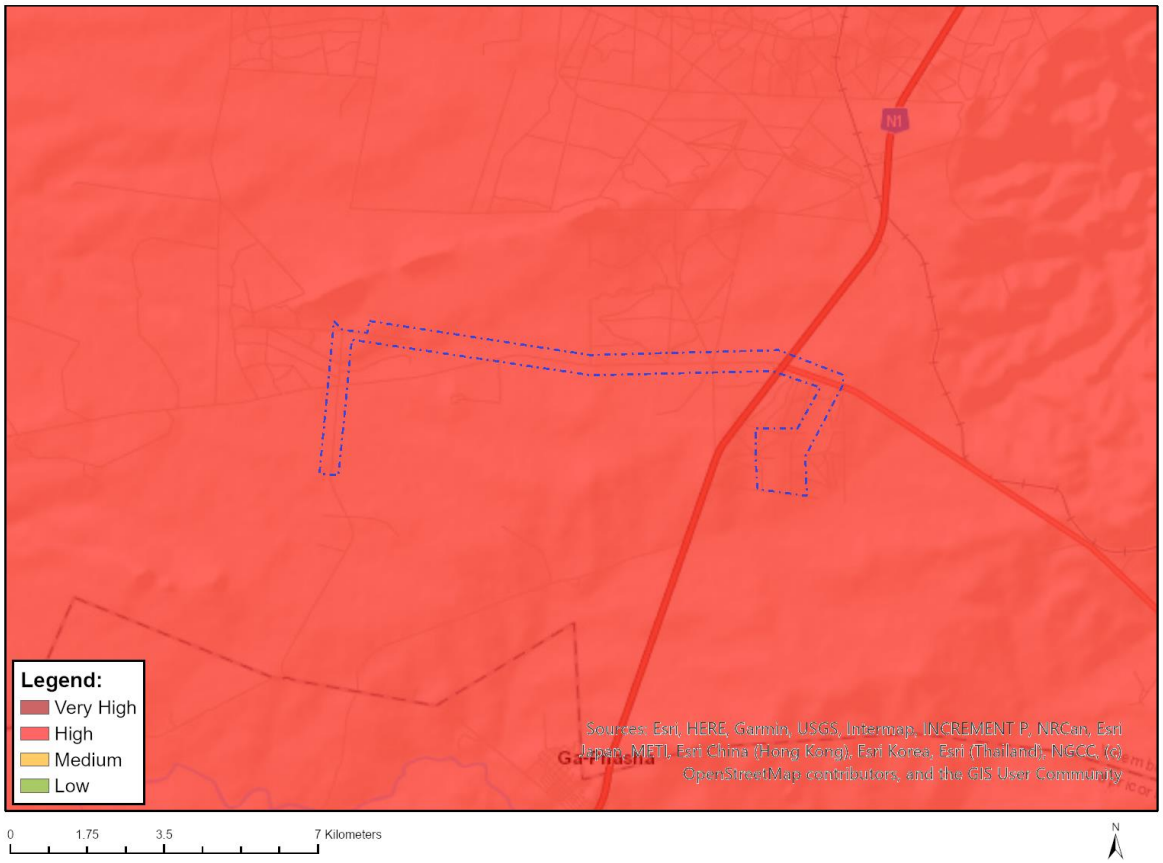
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

Disclaimer applies
13/03/2025

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY



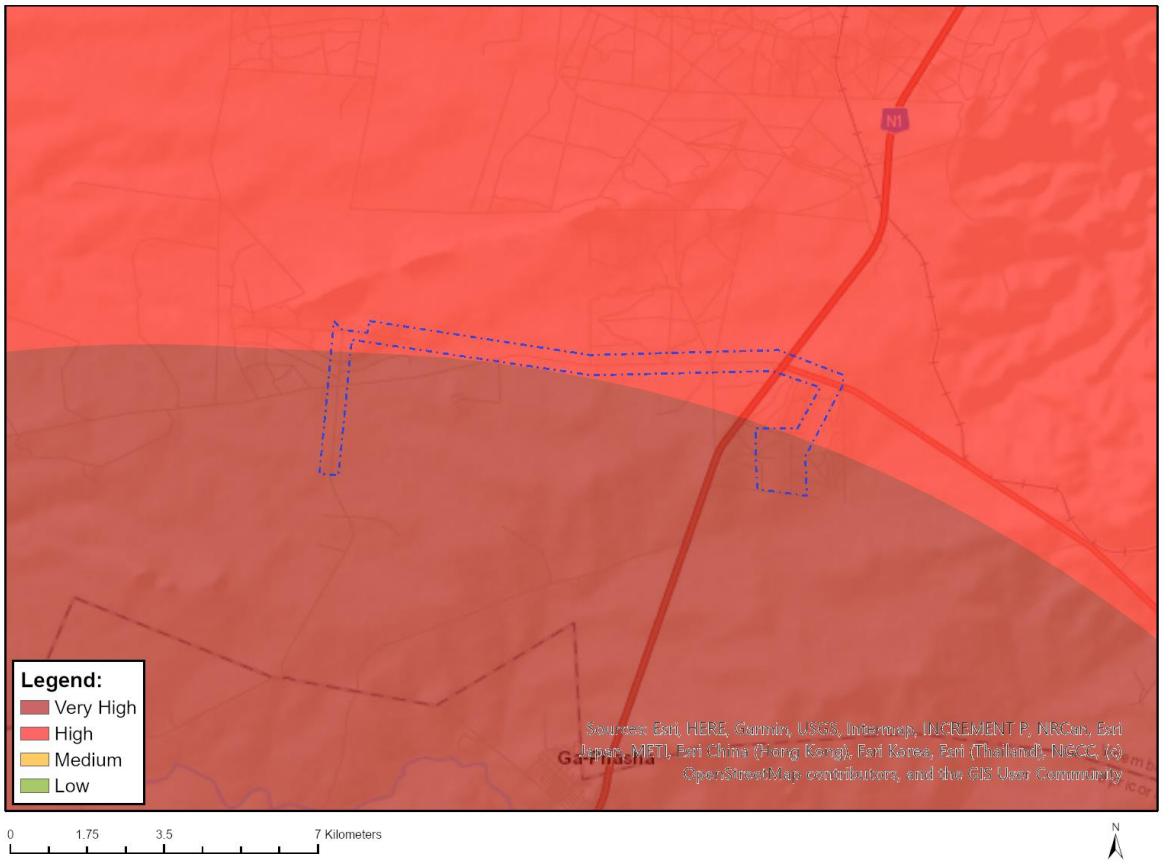
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Dangerous and restricted airspace as demarcated

Disclaimer applies
13/03/2025

MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Military and Defence Site
Medium	Military and Defence Site
Very High	Military and Defence Site

Disclaimer applies
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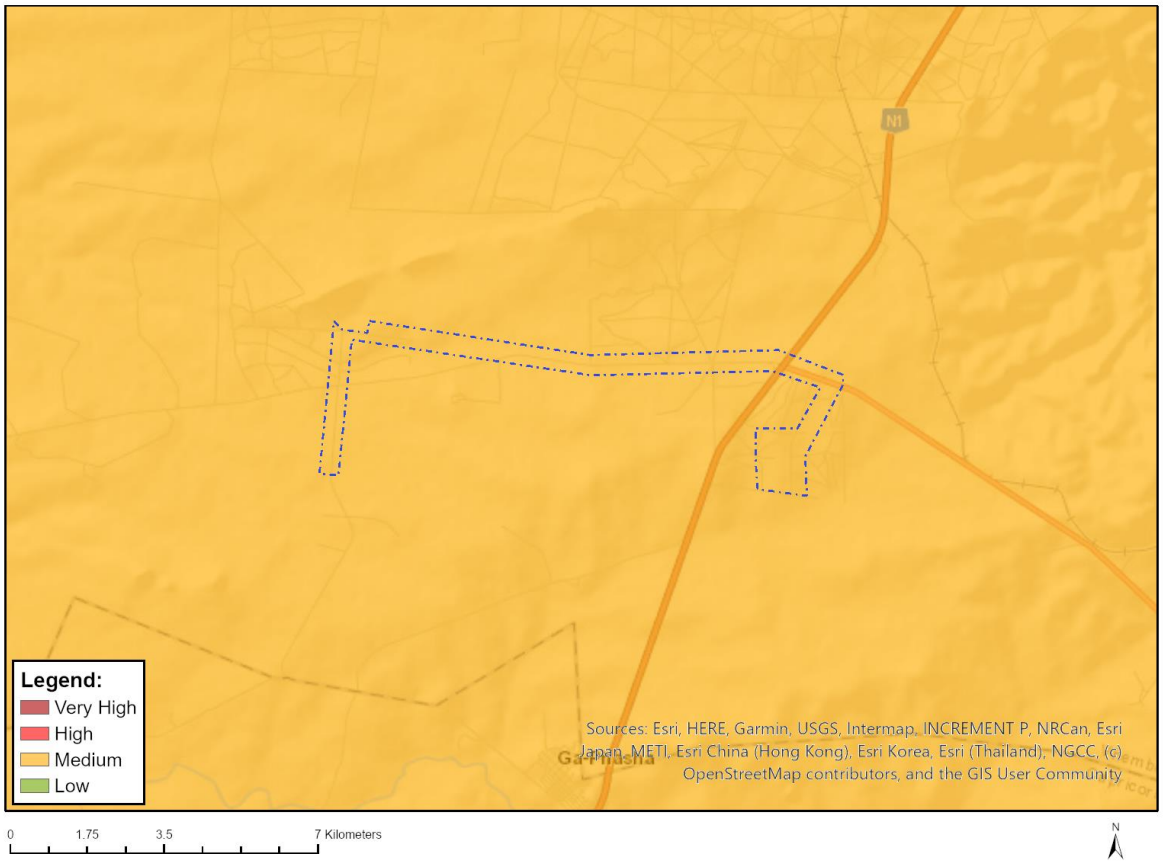
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY



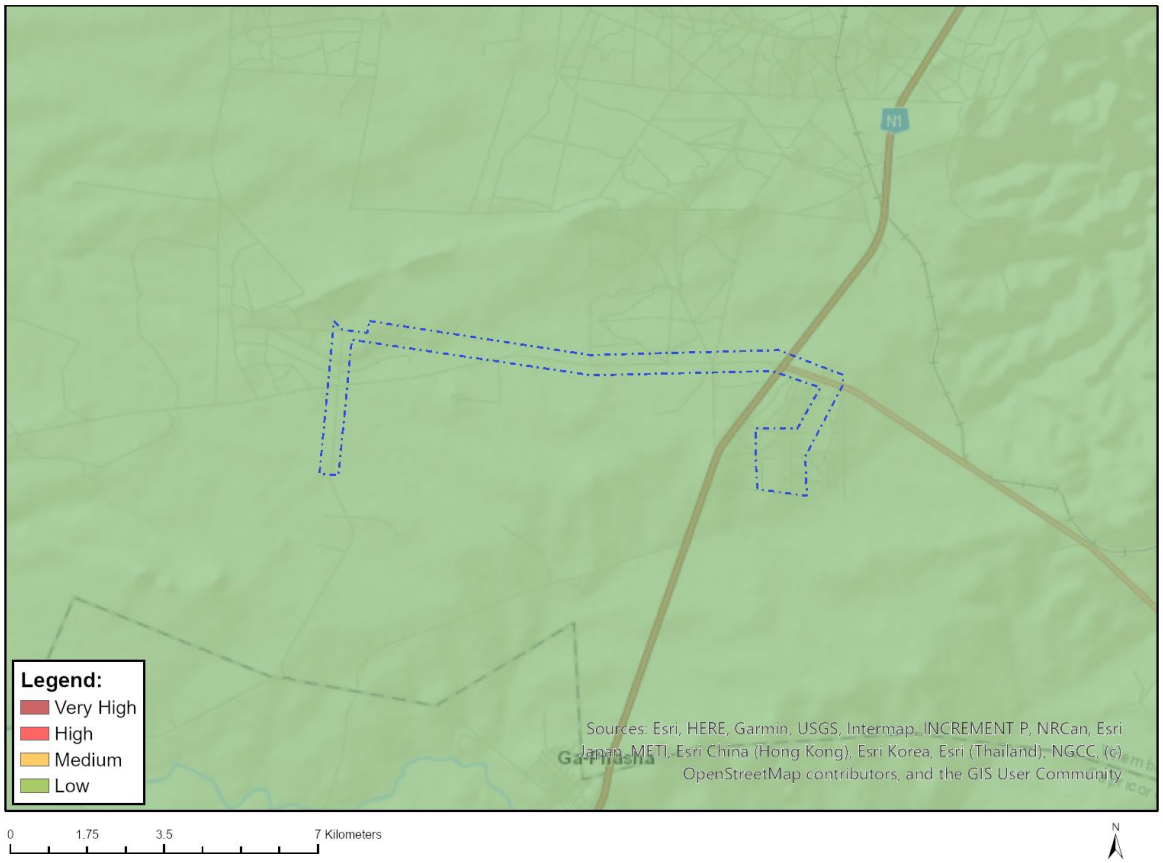
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Features with a Low paleontological sensitivity
Medium	Features with a Medium paleontological sensitivity

Disclaimer applies
13/03/2025

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

Disclaimer applies
13/03/2025

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

Disclaimer applies
13/03/2025

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

EIA Reference number: TBC

Project name: Electrical Grid Alternative 3

Project title: Electrical Grid Alternative 3

Date screening report generated: 13/03/2025 13:03:50

Applicant: Draailoop Solar PV, Klipput Solar PV, Bethel Solar PV, Makoppa Solar PV

Compiler: Cape EAPrac

Compiler signature: .....

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

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MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY 15

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY 16

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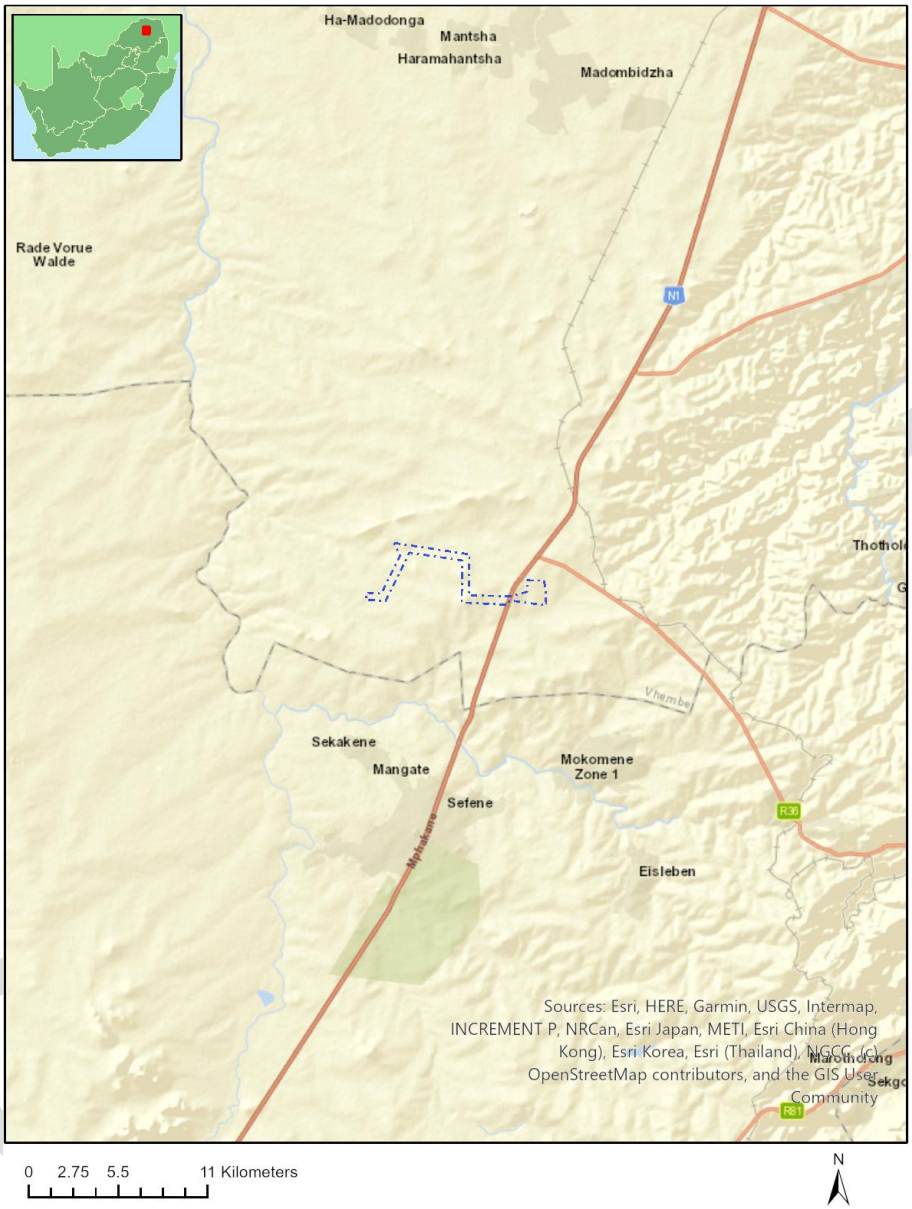
Proposed Project Location

Orientation map 1: General location

General Orientation: Electrical Grid Alternative 3



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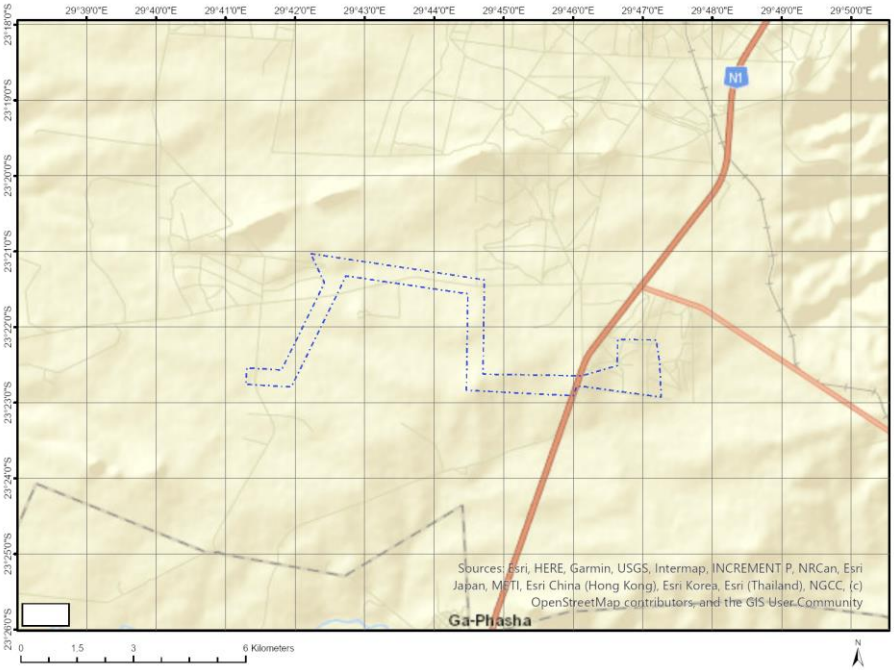
Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	DOORNVELD	426	0	23°20'25.45S	29°42'20.99E	Farm
2	BRANDHOEK	1211	0	23°22'7.29S	29°45'27.01E	Farm
3	JOPPA	473	0	23°21'44.29S	29°46'44.21E	Farm
4	LEEUWDOORNS	472	0	23°24'6.85S	29°45'37.15E	Farm
5	KLIPPUT	425	0	23°21'56S	29°42'15.21E	Farm
6	JOPPA	1209	0	23°22'10.66S	29°46'52.18E	Farm
7	BETHEL	431	0	23°21'49.56S	29°40'45.12E	Farm
8	GROENEPUNT	423	0	23°20'32.56S	29°43'51.18E	Farm
9	MAKOPPA	466	0	23°23'1.92S	29°41'47.96E	Farm
10	VLUCHTKRAAL	420	0	23°20'31.8S	29°45'28.08E	Farm
11	HAAKDOORN	470	0	23°23'23.01S	29°43'48.66E	Farm
12	BELLEVUE	424	0	23°22'1.68S	29°43'48.35E	Farm
13		419	1	23°22'40.7S	29°46'4.73E	Farm Portion
14	VLUCHTKRAAL	420	0	23°20'31.8S	29°45'28.08E	Farm Portion
15	GROENEPUNT	423	0	23°20'19.32S	29°43'45.73E	Farm Portion
16	GROENEPUNT	423	1	23°21'4.42S	29°44'4.35E	Farm Portion
17	BELLEVUE	424	1	23°21'40.66S	29°43'47.5E	Farm Portion
18	BELLEVUE	424	0	23°22'22.13S	29°43'49.17E	Farm Portion
19	KLIPPUT	425	1	23°21'47.94S	29°41'54.1E	Farm Portion
20	KLIPPUT	425	2	23°22'4.27S	29°42'36.9E	Farm Portion
21	DOORNVELD	426	0	23°20'27.34S	29°42'32.19E	Farm Portion
22	BETHEL	431	0	23°21'49.56S	29°40'45.12E	Farm Portion
23	MAKOPPA	466	1	23°23'7.39S	29°42'28.99E	Farm Portion
24	MAKOPPA	466	0	23°22'56.59S	29°41'8.02E	Farm Portion
25	HAAKDOORN	470	2	23°23'4.1S	29°43'54.14E	Farm Portion
26	LEEUWDOORNS	472	4	23°24'18.17S	29°45'27.46E	Farm Portion
27	LEEUWDOORNS	472	2	23°23'15.76S	29°45'10.48E	Farm Portion
28	LEEUWDOORNS	472	8	23°23'34.65S	29°45'42.52E	Farm Portion

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29	LEEUWDOORNS	472	5	23°23'25.6S	29°45'46.89E	Farm Portion
30	JOPPA	473	1	23°22'37.92S	29°46'53.82E	Farm Portion
31	JOPPA	1209	0	23°22'10.66S	29°46'52.18E	Farm Portion
32	BRANDHOEK	1211	0	23°22'7.29S	29°45'27.01E	Farm Portion

Development footprint[1] vertices:
No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	12/12/20/2619/AM2	Solar PV	Approved	12.2
2	14/12/16/3/3/2/2256	Solar PV	Approved	1.8
3	14/12/16/3/3/2/2093	Solar PV	Approved	0
4	12/12/20/2619	Solar PV	Approved	12.2

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|Substation**.

Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-International corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf
Main Electricity Transmission Substation	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Distribution_Transmission.pdf

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

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Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme		X		
Animal Species Theme			X	
Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme		X		
Defence Theme	X			
Paleontology Theme			X	
Plant Species Theme				X
Terrestrial Biodiversity Theme				X

Specialist assessments identified

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

No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.

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		pdf
8	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

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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

Unable to obtain map image.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Rainfed Annual Crop Cultivation / Planted Pastures
High	08. Moderate
Low	05. Low
Medium	06. Low-Moderate
Medium	07. Low-Moderate

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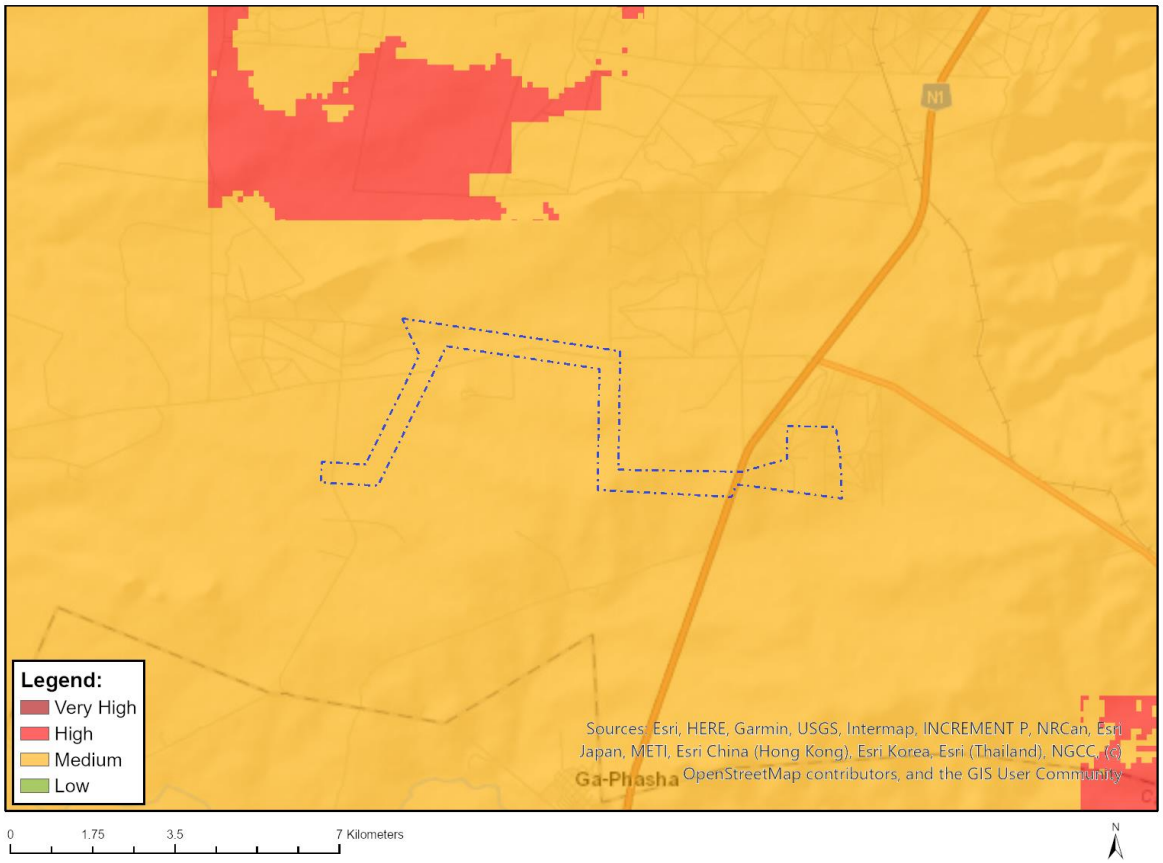
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



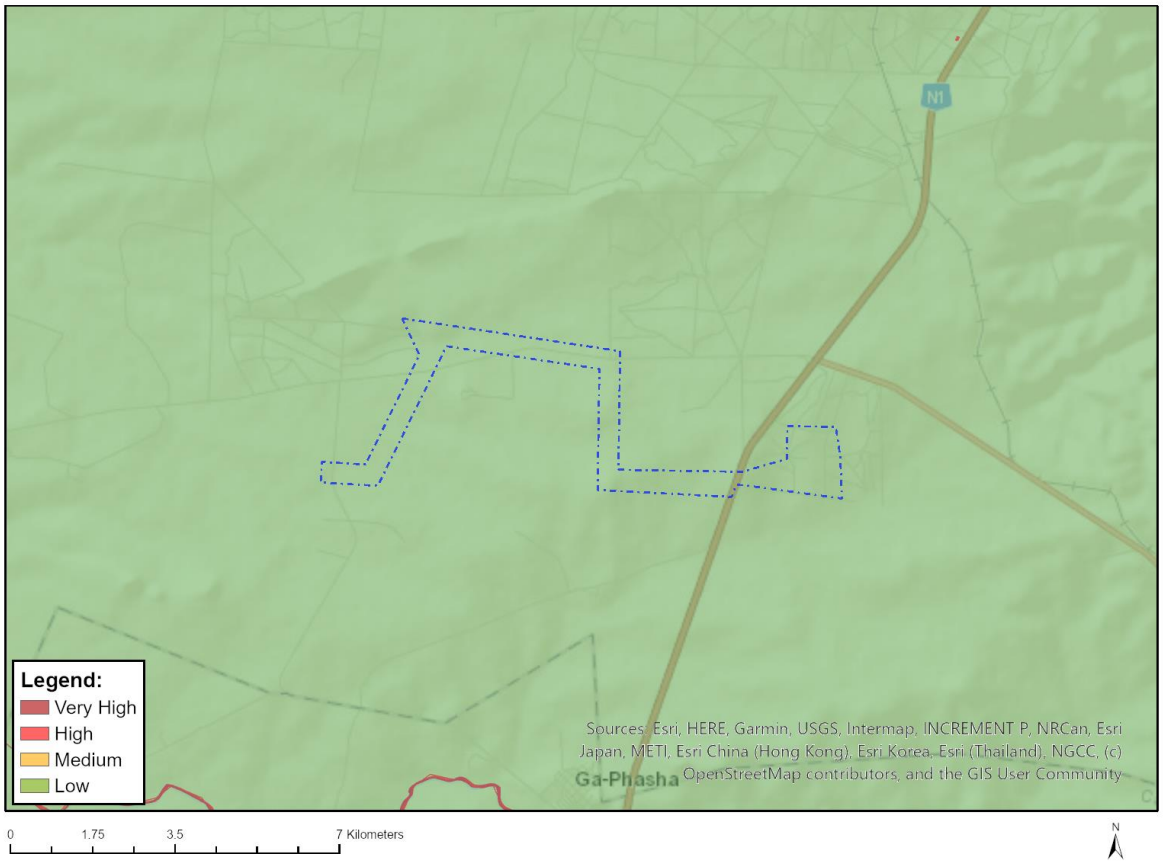
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Medium	Aves-Aquila rapax
Medium	Sensitive species 5
Medium	Mammalia-Crocidura maquassiensis
Medium	Invertebrate-Thoracistus viridicrus

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

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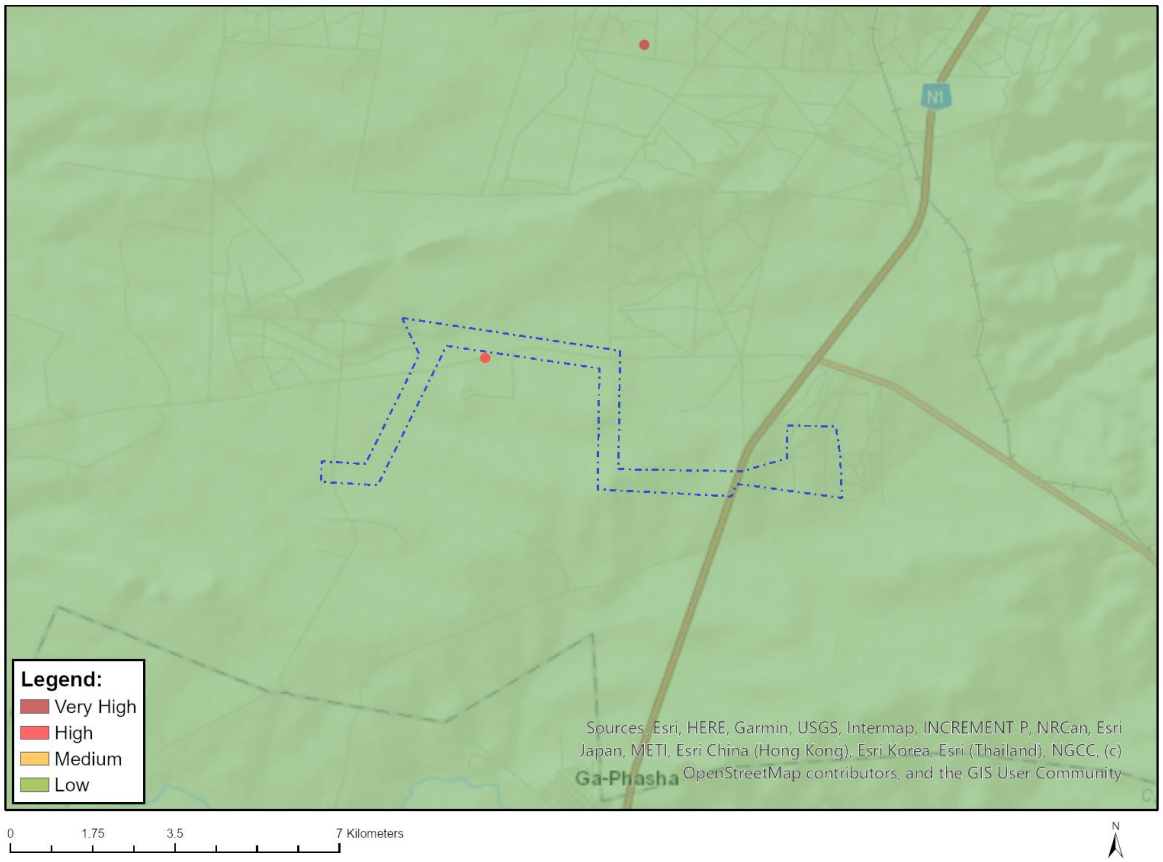
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

Disclaimer applies
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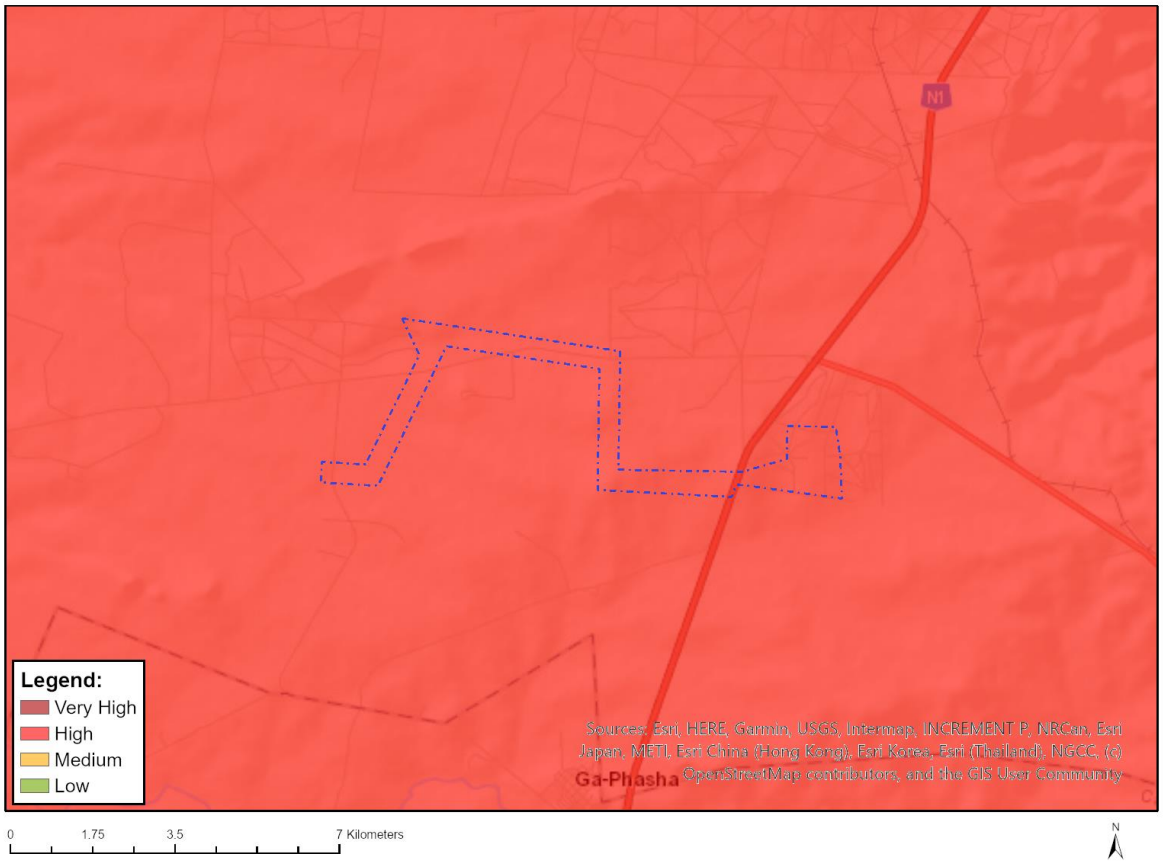
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Dangerous and restricted airspace as demarcated

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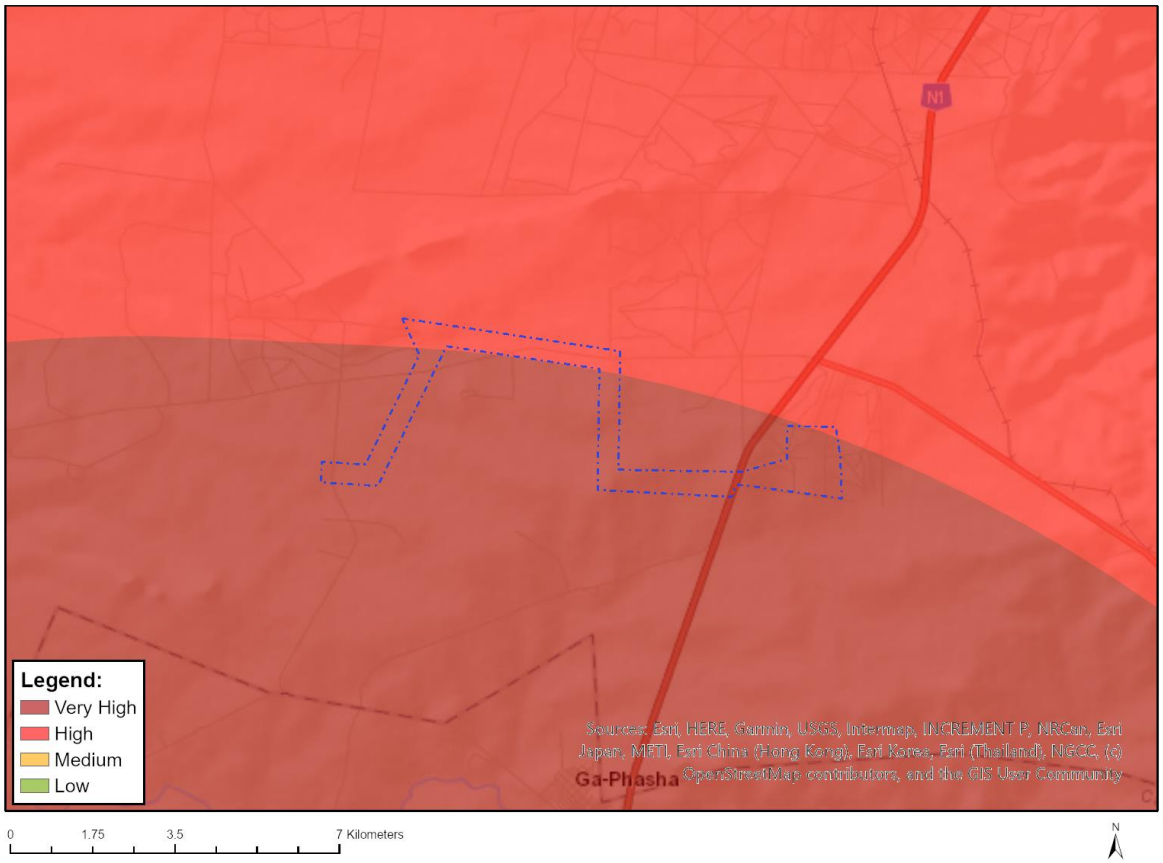
MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Military and Defence Site
Medium	Military and Defence Site
Very High	Military and Defence Site

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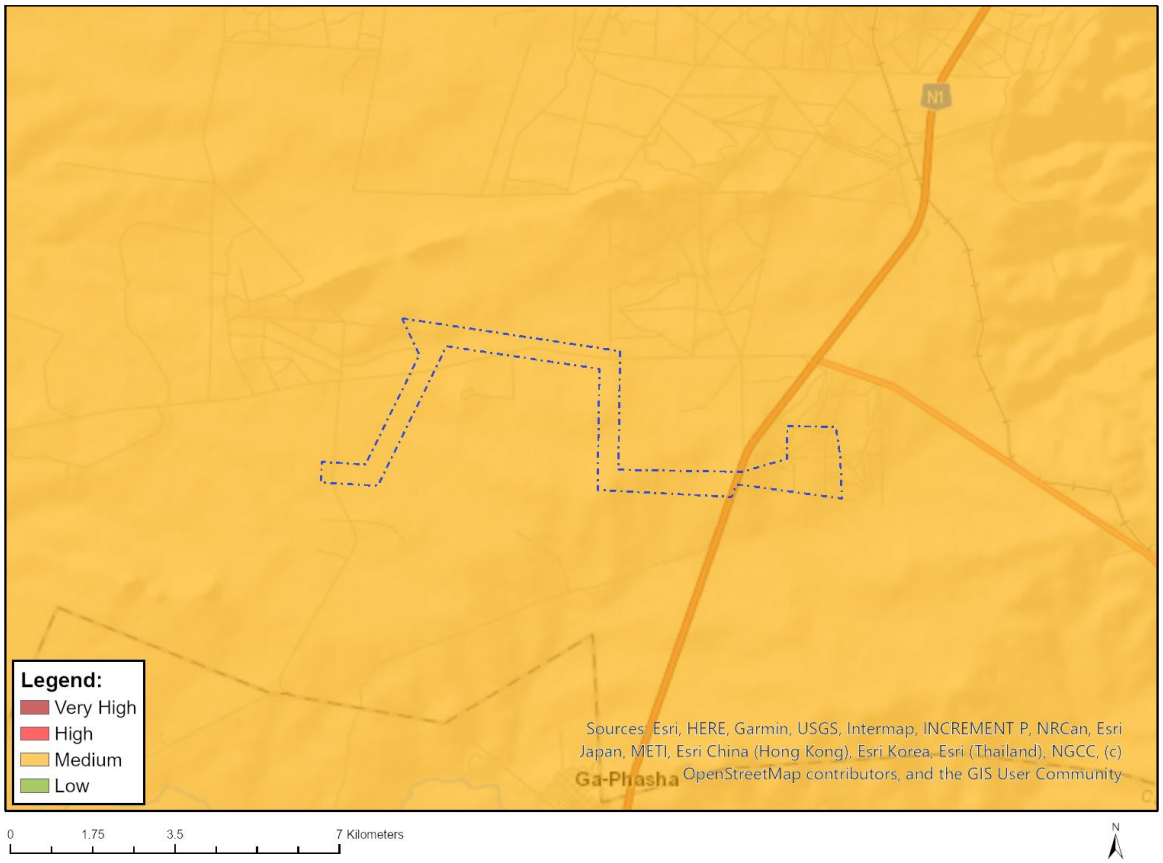
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

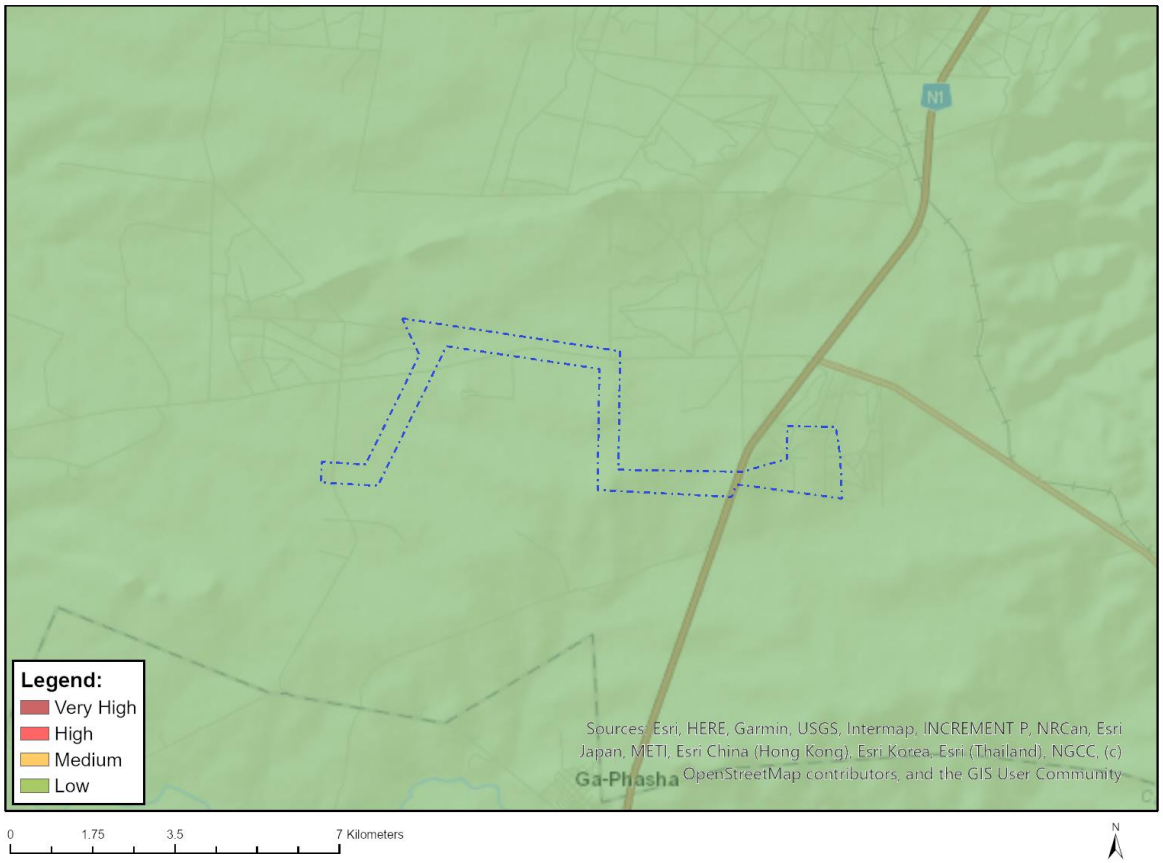


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

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



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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

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MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

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