

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

EIA Reference number: GAUT 002/25-26/E0240

Project name: Vaal Aerotropolis

Project title: 22349

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Applicant: Vaal Aerozone (Pty) Ltd

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Application Category: Infrastructure|Transport Services|Airport_Runways_Landing
Strip_Helipad|Commercial



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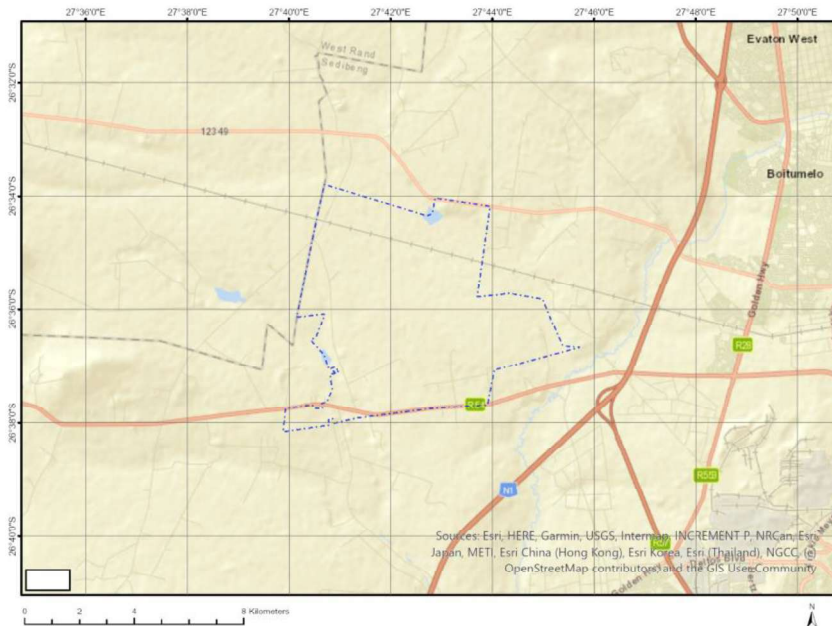
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Proposed Project Location

Orientation map 1: General location



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	TWEEFONTEIN	523	0	26°34'38.02S	27°38'25.46E	Farm
2	KLIPKOP	530	0	26°34'29.58S	27°42'53.66E	Farm
3	RIETKUIL	554	0	26°37'2.12S	27°46'7.35E	Farm
4	VLAKPLAATS	555	0	26°37'21.83S	27°42'14.17E	Farm
5	VLAKPLAATS	555	44	26°37'3.91S	27°43'40.69E	Farm Portion
6	RIETKUIL	554	3	26°36'49.09S	27°44'40.51E	Farm Portion
7	RIETKUIL	554	33	26°36'17.82S	27°45'22.65E	Farm Portion
8	VLAKPLAATS	555	6	26°36'16.09S	27°41'9.83E	Farm Portion
9	VLAKPLAATS	555	22	26°37'47.12S	27°43'38.13E	Farm Portion
10	RIETKUIL	554	36	26°36'1.83S	27°45'25.83E	Farm Portion
11	VLAKPLAATS	555	16	26°38'6.36S	27°41'26.05E	Farm Portion
12	VLAKPLAATS	555	38	26°37'19.91S	27°43'18.16E	Farm Portion
13	VLAKPLAATS	555	43	26°37'16.05S	27°43'42.94E	Farm Portion
14	KLIPKOP	530	15	26°34'36.85S	27°44'5.4E	Farm Portion
15	KLIPKOP	530	45	26°33'41.9S	27°42'7.14E	Farm Portion
16	TWEEFONTEIN	523	2	26°35'8.33S	27°39'31.38E	Farm Portion
17	KLIPKOP	530	13	26°34'16.56S	27°44'8.66E	Farm Portion
18	KLIPKOP	530	14	26°34'26.69S	27°44'7.03E	Farm Portion
19	RIETKUIL	554	26	26°36'35.61S	27°44'43.78E	Farm Portion
20	VLAKPLAATS	555	17	26°37'28.83S	27°41'50.36E	Farm Portion
21	VLAKPLAATS	555	20	26°37'41.12S	27°40'52.61E	Farm Portion
22	VLAKPLAATS	555	7	26°36'26.8S	27°41'50.84E	Farm Portion
23	KLIPKOP	530	48	26°35'30.26S	27°40'32.31E	Farm Portion
24	KLIPKOP	530	47	26°35'56.33S	27°40'25.18E	Farm Portion
25	KLIPKOP	530	1	26°35'26.01S	27°44'23.11E	Farm Portion
26	VLAKPLAATS	555	33	26°37'11.26S	27°42'58.94E	Farm Portion
27	VLAKPLAATS	555	34	26°37'22.58S	27°43'1.09E	Farm Portion
28	VLAKPLAATS	555	37	26°37'8.25S	27°43'16.02E	Farm Portion

29	RIETKUIL	554	32	26°36'27.01S	27°45'33.31E	Farm Portion
30	RIETKUIL	554	15	26°37'22.1S	27°44'5.63E	Farm Portion
31	VLAKPLAATS	555	21	26°37'45.92S	27°43'48.02E	Farm Portion
32	VLAKPLAATS	555	30	26°37'25.33S	27°42'43.42E	Farm Portion
33	VLAKPLAATS	555	32	26°37'12.79S	27°42'50.21E	Farm Portion
34	KLIPKOP	530	0	26°34'21.66S	27°43'22.54E	Farm Portion
35	KLIPKOP	530	41	26°35'26.18S	27°43'54.98E	Farm Portion
36	VLAKPLAATS	555	29	26°37'14.35S	27°42'41.31E	Farm Portion
37	VLAKPLAATS	555	31	26°37'23.95S	27°42'52.31E	Farm Portion
38	VLAKPLAATS	555	39	26°37'18.62S	27°43'26.53E	Farm Portion
39	VLAKPLAATS	555	42	26°37'17.31S	27°43'34.78E	Farm Portion
40	RIETKUIL	554	9	26°36'9.37S	27°44'40.09E	Farm Portion
41	VLAKPLAATS	555	5	26°36'38.93S	27°43'25.57E	Farm Portion
42	VLAKPLAATS	555	18	26°36'0.96S	27°42'25.04E	Farm Portion
43	VLAKPLAATS	555	35	26°37'21.23S	27°43'9.69E	Farm Portion
44	VLAKPLAATS	555	40	26°37'6.8S	27°43'24.32E	Farm Portion
45	VLAKPLAATS	555	52	26°37'42.54S	27°42'20.64E	Farm Portion
46	VLAKPLAATS	555	51	26°36'42.09S	27°42'36.69E	Farm Portion

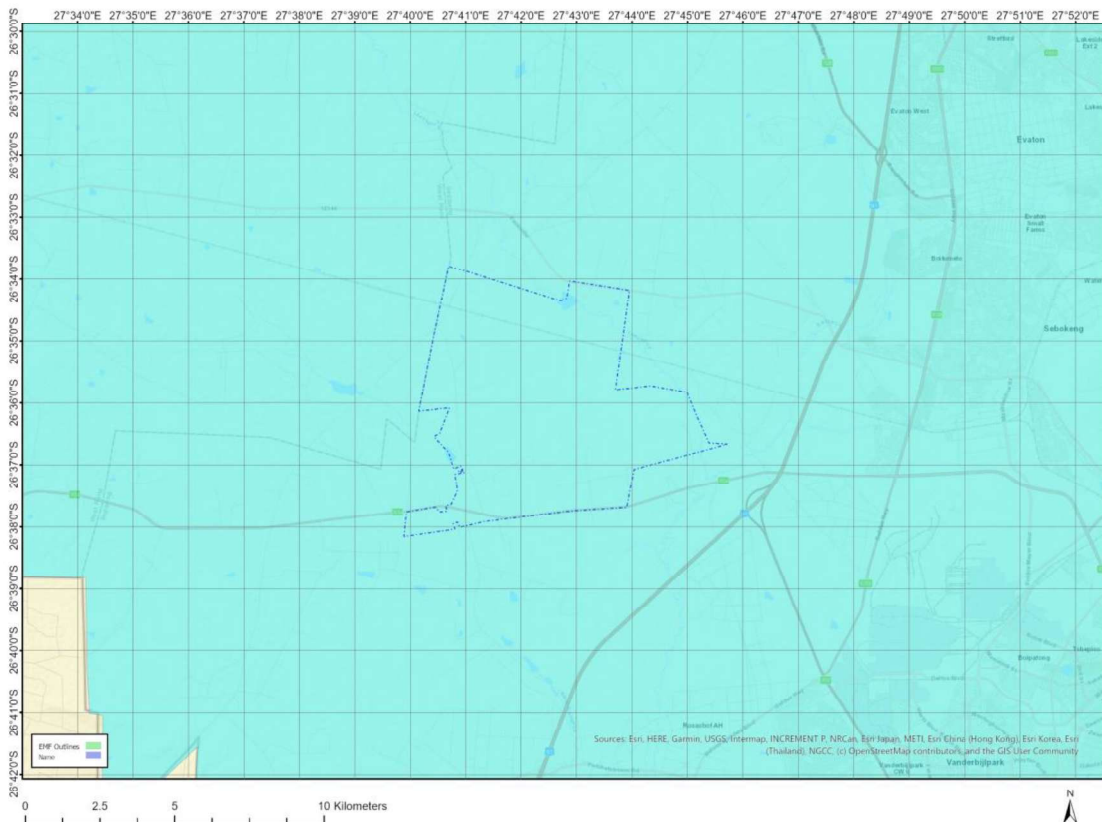
Development footprint¹ vertices:
No development footprint(s) specified.

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	14/12/16/3/3/2/2567	Solar PV	Approved	8.8
2	14/12/16/3/3/2/2566	Solar PV	Approved	9
3	14/12/16/3/3/2/753	Solar PV	Approved	25.6
4	14/12/16/3/3/2/2078	Solar PV	Approved	17.1
5	14/12/16/3/3/2/2569	Solar PV	Approved	10.8
6	14/12/16/3/3/2/2385	Wind	Approved	20.4
7	14/12/16/3/3/2/2077	Wind	Approved	21.2
8	14/12/16/3/3/2/2375	Solar PV	Approved	24.7
9	14/12/16/3/3/2/2679	Solar PV	Approved	4
10	14/12/16/3/3/2/919	Solar PV	Approved	24.5
11	14/12/16/3/3/2/2568	Solar PV	Approved	13
12	14/12/16/3/3/2/2680	Solar PV	Approved	26.2

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.

Environmental Management Frameworks relevant to the application



Environmental Management Framework	LINK
Gauteng EMF	https://screening.environment.gov.za/ScreeningDownloads/EMF/GPEMF_2021_Gazette_and_summary.pdf

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:

Infrastructure|Transport Services|Airport_Runways_Landing Strip_Helipad|Commercial.

Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/Developmen

	tZones/Combined_EGI.pdf
Air Quality-Vaal Triangle Airshed Priority Area	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Final_VTAPA_AQMP_20090408_-15_April_2009.pdf
Strategic Gas Pipeline Corridors-Phase 3: Richards Bay to Gauteng	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf
Main Electricity Distribution Substation	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Distribution_Transmission.pdf
South African Protected Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SAPAD_OR_2026_Q1_Metadata.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.

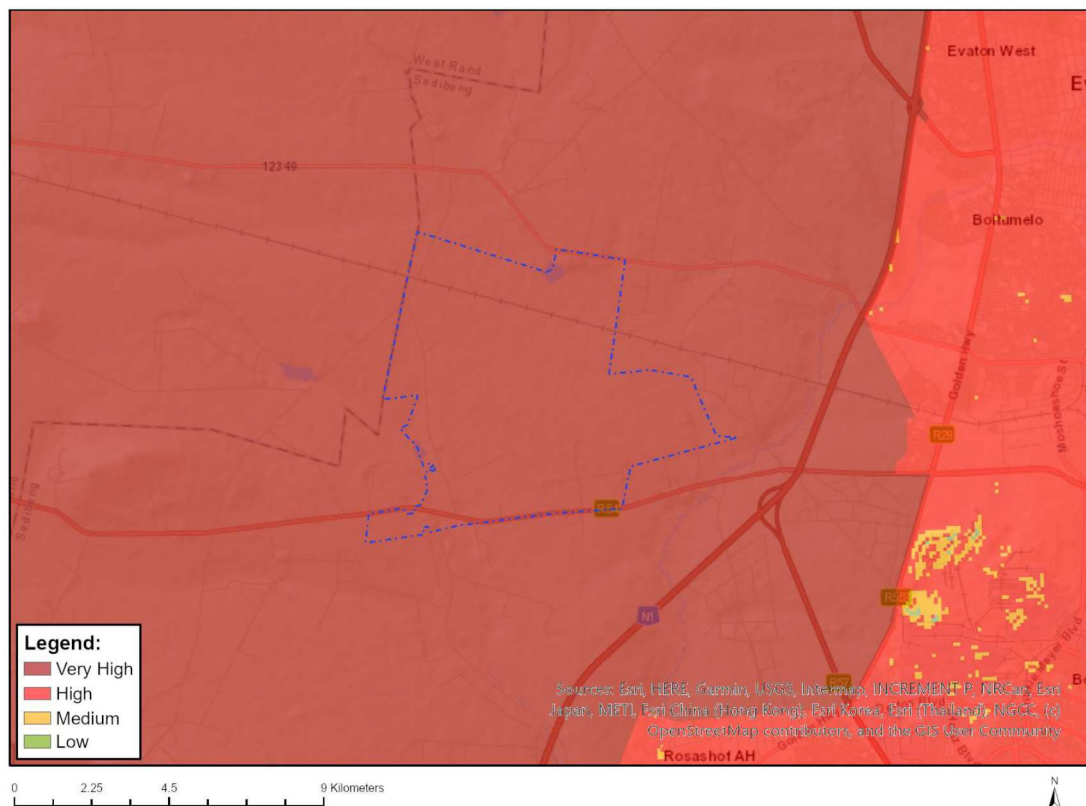
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/GuidanceforHIA.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/GuidanceforPIA.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	Avian Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Avifauna_Assessment_Protocols.pdf
7	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
8	Defense Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Defence_Installations_Assessment_Protocols.pdf
9	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
10	Traffic Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
11	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
12	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
14	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

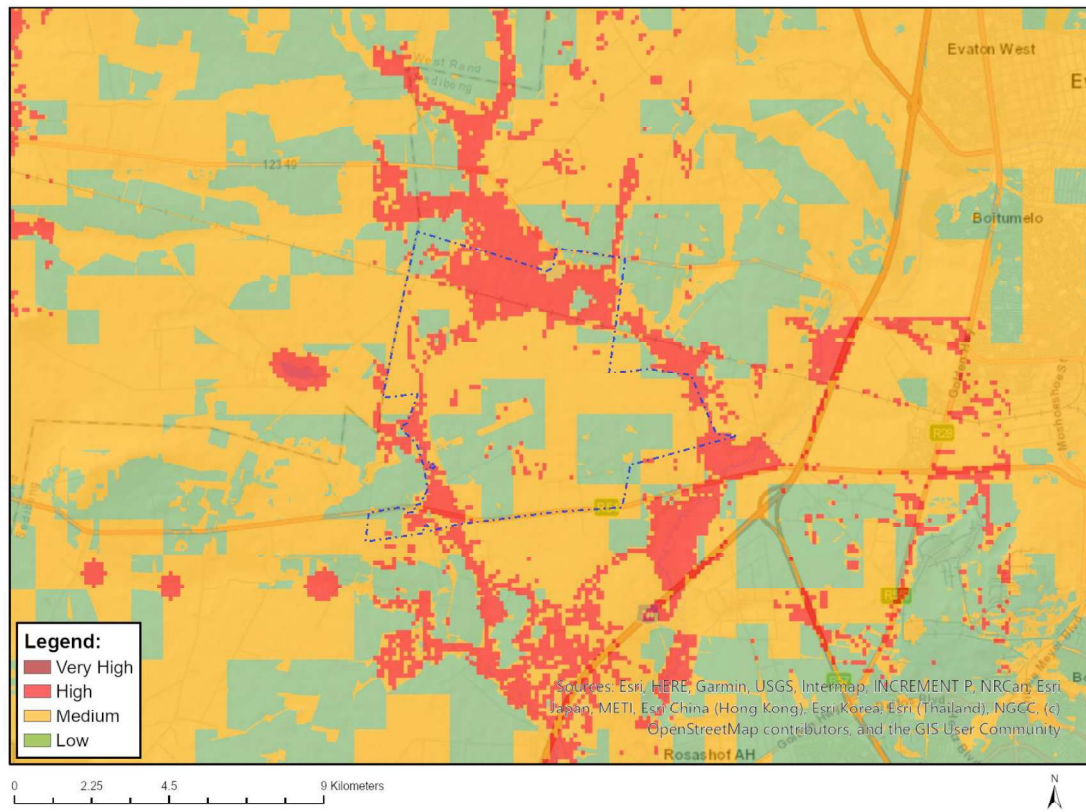


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Rainfed Annual Crop Cultivation / Planted Pastures
High	10. Moderate-High
High	08. Moderate
High	09. Moderate-High
Medium	07. Low-Moderate
Very High	Fochville PAA

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



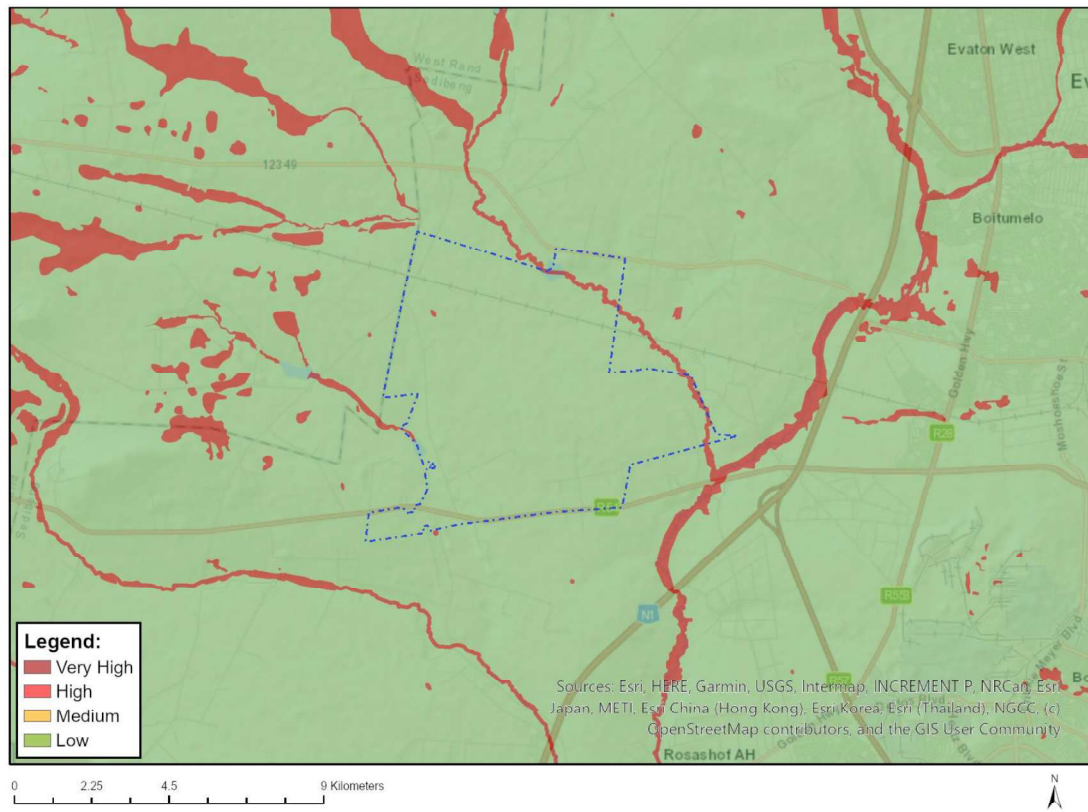
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Tyto capensis
High	Aves-Mycteria ibis
Low	Subject to confirmation
Medium	Aves-Hydroprogne caspia
Medium	Aves-Eupodotis senegalensis
Medium	Insecta-Aloeides dentatis dentatis
Medium	Insecta-Lepidochrysops praeterita
Medium	Insecta-Lepidochrysops procera
Medium	Mammalia-Crocidura maquassiensis
Medium	Mammalia-Hydricitis maculicollis
Medium	Mammalia-Ourebia ourebi ourebi

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

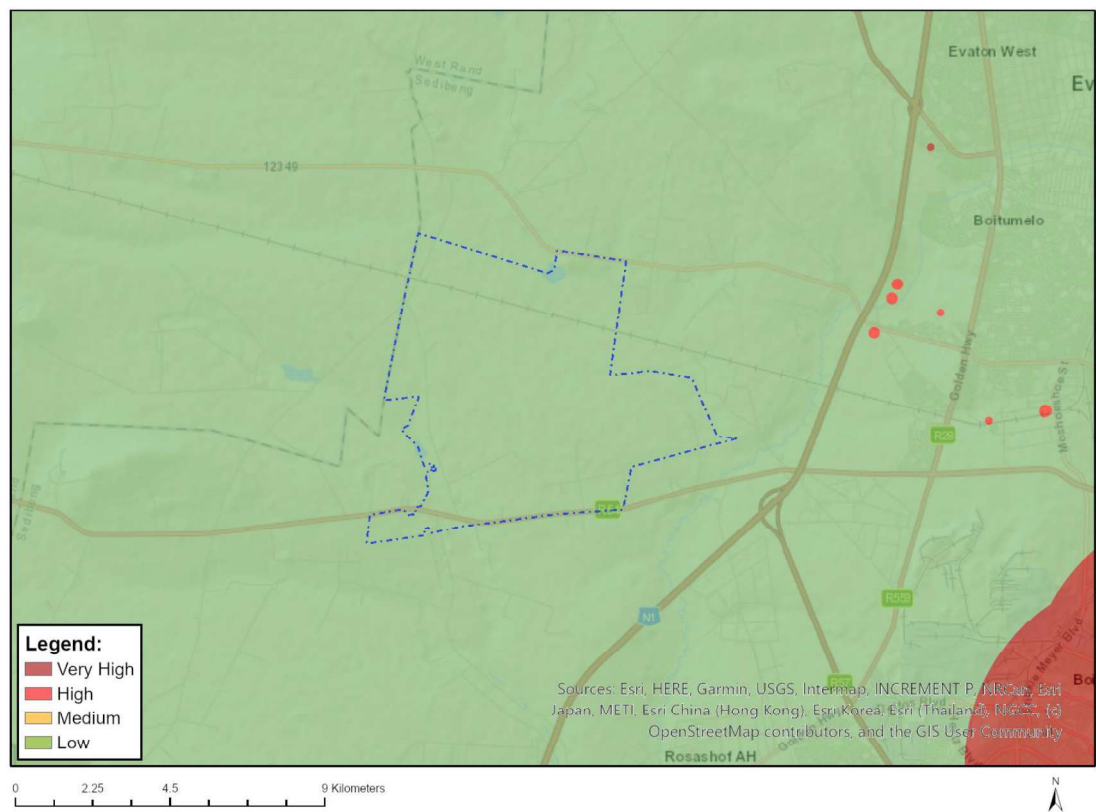


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Wetlands_Channelled valley-bottom
Very High	Wetlands_Depression
Very High	Wetlands_Unchannelled valley-bottom
Very High	Rivers

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

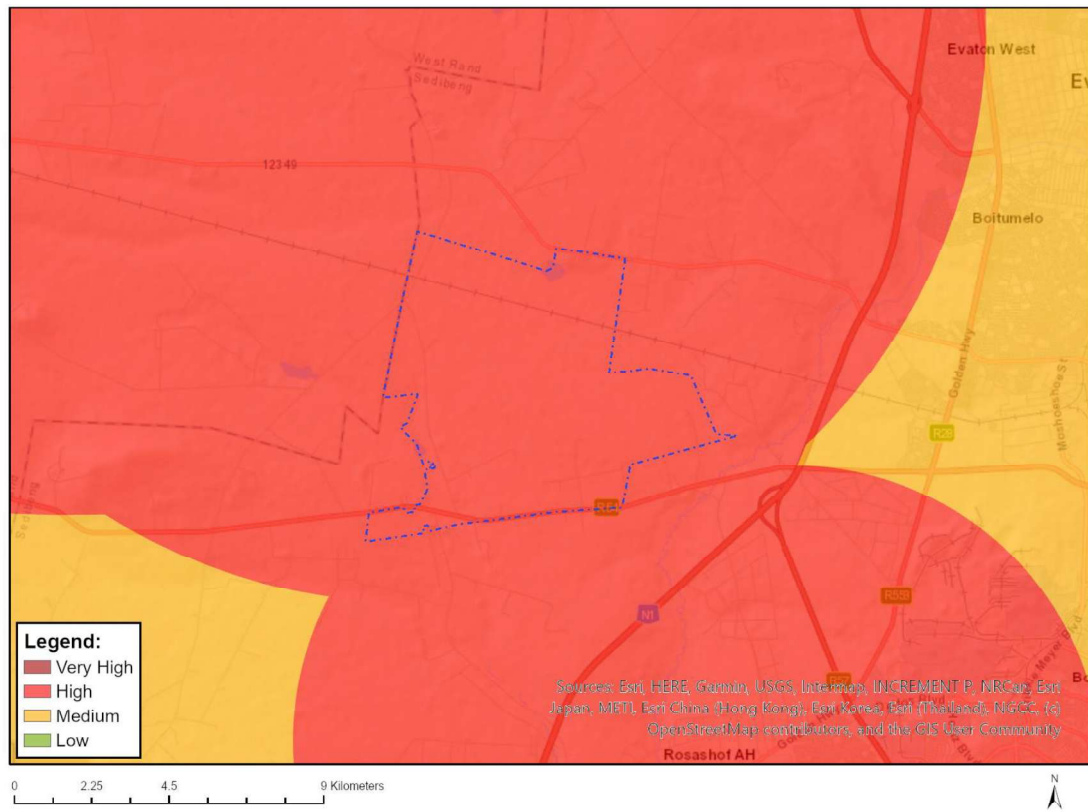


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

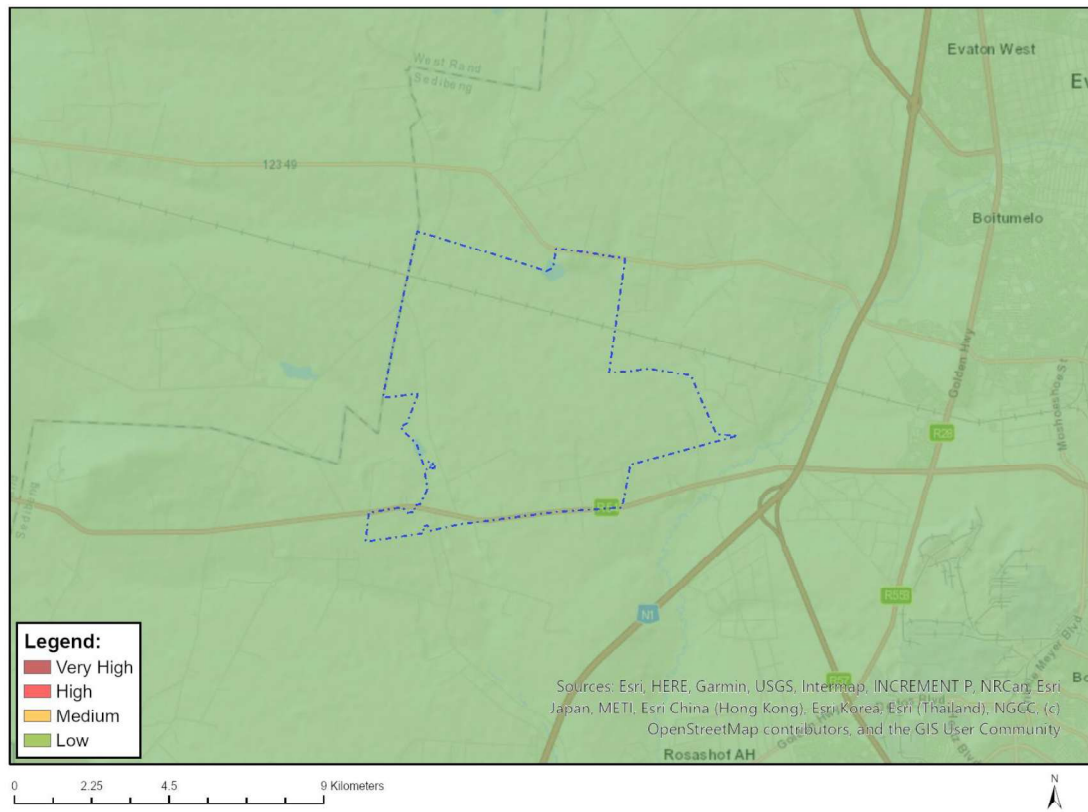


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 15 km of a civil aviation radar
High	Within 8 km of other civil aviation aerodrome
High	Dangerous and restricted airspace as demarcated
Medium	Between 15 and 35 km from a civil aviation radar
Medium	Between 8 and 15 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

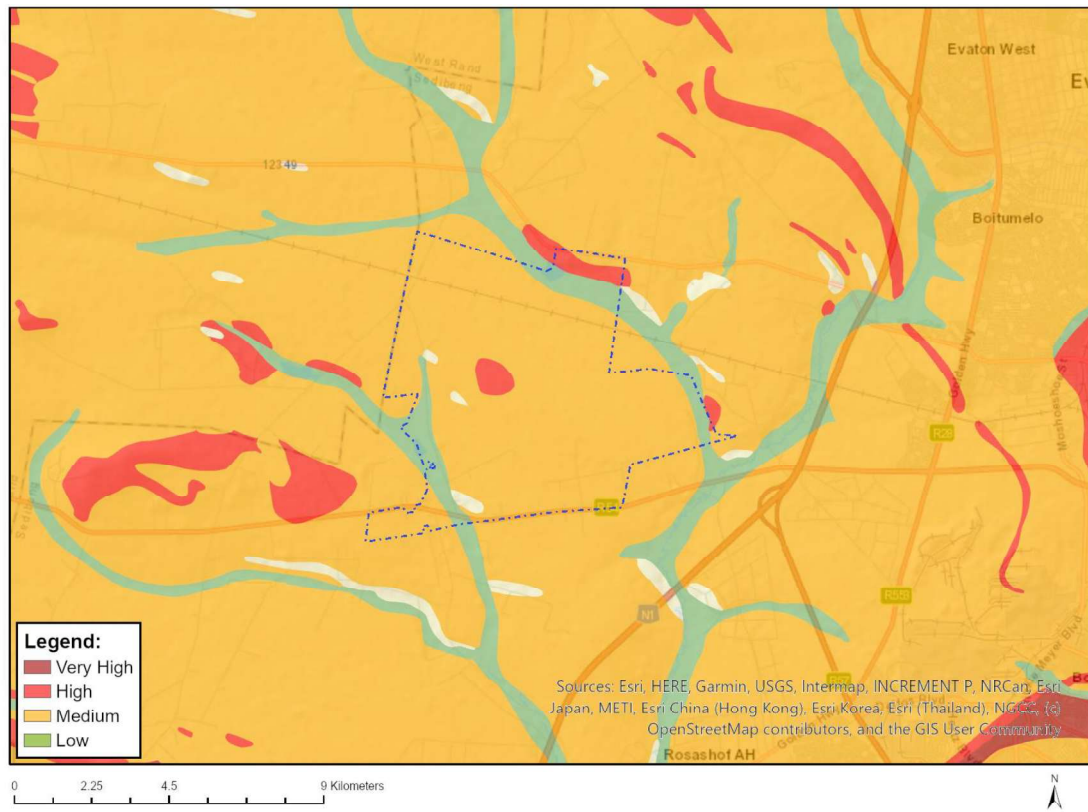


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

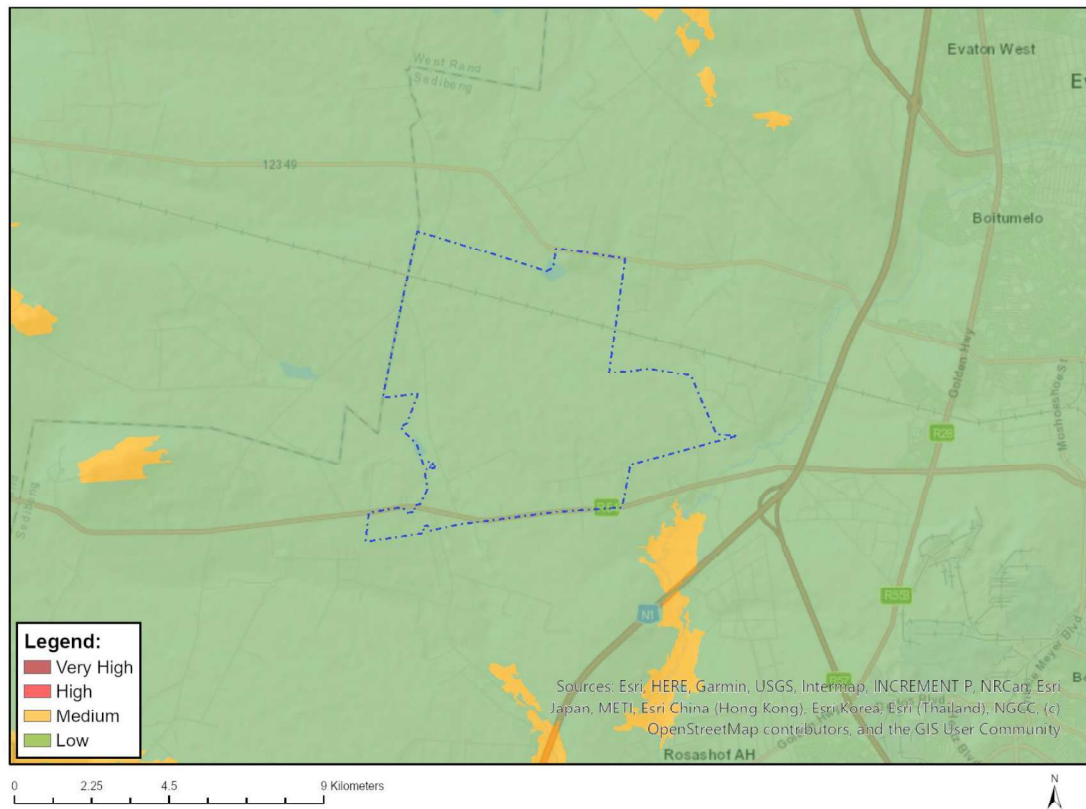


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



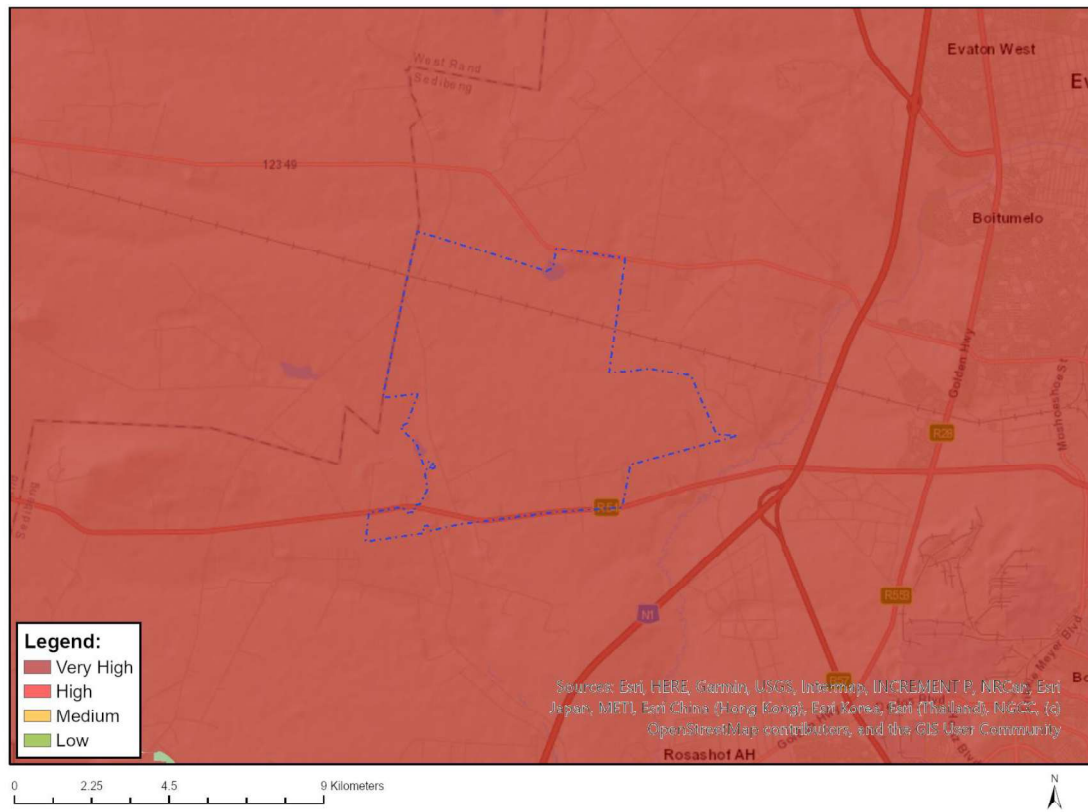
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	CBA 1
Very High	CBA 2
Very High	ESA 1
Very High	ESA 2
Very High	Tweefontein Private Nature Reserve
Very High	National Protected Area Expansion Strategy (NPAES)
Very High	VU_Soweto Highveld Grassland