

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

EIA Reference number: MP 30/5/1/2/2/10268 MR

Project name: RIETKOL MINING OPERATION

Project title: Mining Right, Environmental Authorisation and Waste Application

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Applicant: NHLABATHI MINERALS (PTY) LTD

Compiler: JACANA ENVIRONMENTALS cc

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Application Category: Mining|Mining Right

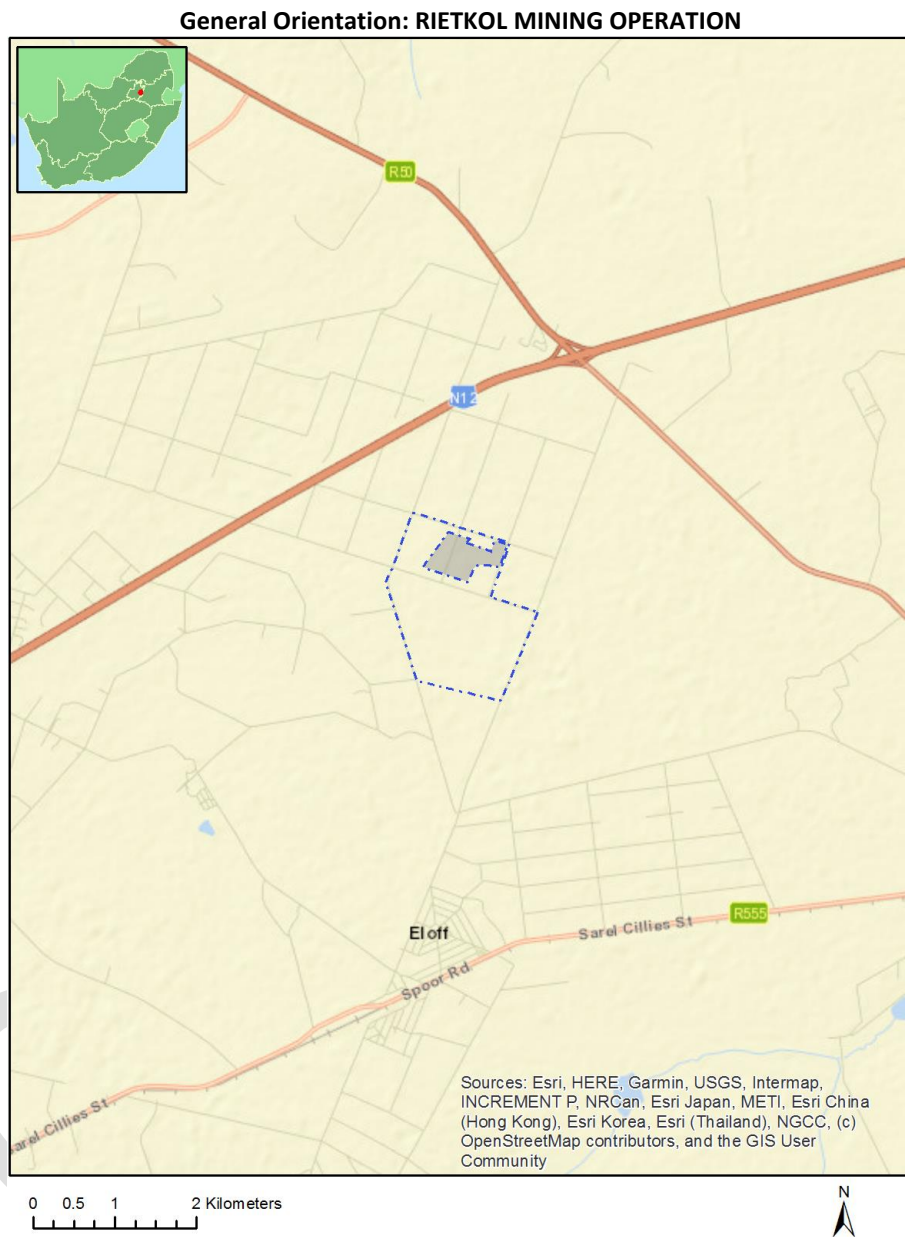


Table of Contents

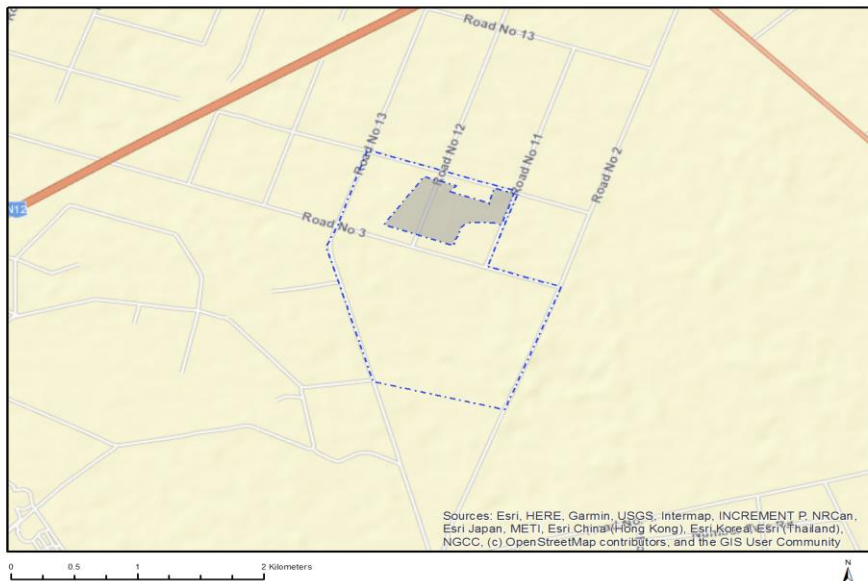
- Proposed Project Location 3
 - Orientation map 1: General location 3
- Map of proposed site and relevant area(s) 4
 - Cadastral details of the proposed site 4
 - Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area 5
 - Environmental Management Frameworks relevant to the application 6
- Environmental screening results and assessment outcomes 6
 - Relevant development incentives, restrictions, exclusions or prohibitions 6
- Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones 8
 - Proposed Development Area Environmental Sensitivity 8
 - Specialist assessments identified 9
- Results of the environmental sensitivity of the proposed area 11
 - MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY 11
 - MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY 12
 - MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY 13
 - MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY 14
 - MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY 15
 - MAP OF RELATIVE DEFENCE THEME SENSITIVITY 16
 - MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY 17
 - MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY 18
 - MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY 19

Proposed Project Location

Orientation map 1: General location



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	OLIFANTSFONTEIN	196	0	26°5'50.6S	28°36'5.1E	Farm
2	RIETKOL	237	0	26°9'0.67S	28°34'27.5E	Farm
3	RIETKOL	237	71	26°8'7.05S	28°36'46.32E	Farm Portion
4	OLIFANTSFONTEIN	196	3	26°6'50.26S	28°35'58.94E	Farm Portion
5	RIETKOL	237	31	26°8'16.98S	28°36'21.47E	Farm Portion
6	MODDER EAST ORCHARDS AH	212	0	26°7'28.69S	28°36'14.07E	Agri Holding
7	MODDER EAST ORCHARDS AH	218	0	26°7'45.85S	28°36'38.41E	Agri Holding
8	MODDER EAST ORCHARDS AH	214	0	26°7'35.91S	28°36'21.37E	Agri Holding
9	MODDER EAST ORCHARDS AH	215	0	26°7'40.57S	28°36'19.54E	Agri Holding
10	MODDER EAST ORCHARDS AH	219	0	26°7'41.21S	28°36'40.25E	Agri Holding
11	MODDER EAST ORCHARDS AH	211	0	26°7'31.25S	28°36'23.22E	Agri Holding
12	MODDER EAST ORCHARDS AH	220	0	26°7'38.65S	28°36'31.13E	Agri Holding
13	MODDER EAST ORCHARDS AH	281	0	26°7'44.26S	28°36'49.76E	Agri Holding
14	MODDER EAST ORCHARDS AH	210	0	26°7'26.71S	28°36'25.02E	Agri Holding
15	MODDER EAST ORCHARDS AH	217	0	26°7'43.3S	28°36'29.29E	Agri Holding
16	MODDER EAST ORCHARDS AH	222	0	26°7'36.55S	28°36'42.11E	Agri Holding
17	MODDER EAST ORCHARDS AH	278	0	26°7'39.7S	28°36'51.59E	Agri Holding

18	MODDER EAST ORCHARDS AH	221	0	26°7'33.99S	28°36'32.97E	Agri Holding
19	MODDER EAST ORCHARDS AH	223	0	26°7'32.01S	28°36'43.92E	Agri Holding
20	MODDER EAST ORCHARDS AH	282	0	26°7'47.96S	28°36'44.53E	Agri Holding
21	MODDER EAST ORCHARDS AH	283	0	26°7'51.29S	28°36'56.74E	Agri Holding
22	MODDER EAST ORCHARDS AH	209	0	26°7'24.15S	28°36'15.86E	Agri Holding
23	MODDER EAST ORCHARDS AH	213	0	26°7'33.35S	28°36'12.22E	Agri Holding
24	MODDER EAST ORCHARDS AH	216	0	26°7'38S	28°36'10.39E	Agri Holding
25	MODDER EAST ORCHARDS AH	224	0	26°7'29.44S	28°36'34.77E	Agri Holding
26	MODDER EAST ORCHARDS AH	274	0	26°7'29.84S	28°36'55.61E	Agri Holding

Development footprint¹ vertices:

Footprint	Latitude	Longitude
1	26°7'38.92S	28°36'16.22E
1	26°7'30.71S	28°36'22.94E
1	26°7'26.65S	28°36'26.29E
1	26°7'29.05S	28°36'34.58E
1	26°7'30.45S	28°36'33.02E
1	26°7'33.46S	28°36'42.98E
1	26°7'29.66S	28°36'44.32E
1	26°7'31.06S	28°36'49.24E
1	26°7'39.13S	28°36'46.11E
1	26°7'38.61S	28°36'44.32E
1	26°7'38.46S	28°36'42.41E
1	26°7'38.35S	28°36'40.03E
1	26°7'38.35S	28°36'38.64E
1	26°7'38.82S	28°36'37.01E
1	26°7'39.76S	28°36'35.8E
1	26°7'41.42S	28°36'35.22E
1	26°7'42.87S	28°36'34.29E
1	26°7'43.34S	28°36'33.94E
1	26°7'43.86S	28°36'34.12E
1	26°7'44.39S	28°36'33.77E
1	26°7'38.92S	28°36'16.22E

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

1	12/12/20/1923/2	Solar PV	Approved	26.8
2	14/12/16/3/3/2/706	Solar CSP	Approved	26.8

Environmental Management Frameworks relevant to the application



Environmental Management Framework	LINK
Olifants EMF	https://screening.environment.gov.za/ScreeningDownloads/EMF/Zone_46, 67, 78, 80, 92, 103, 122, 129.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 footprint as well as the most environmental sensitive features on the footprint based on the footprint sensitivity screening results for the application classification that was selected. The application classification selected for this report is:

Mining | Mining Right.

Relevant development incentives, restrictions, exclusions or prohibitions

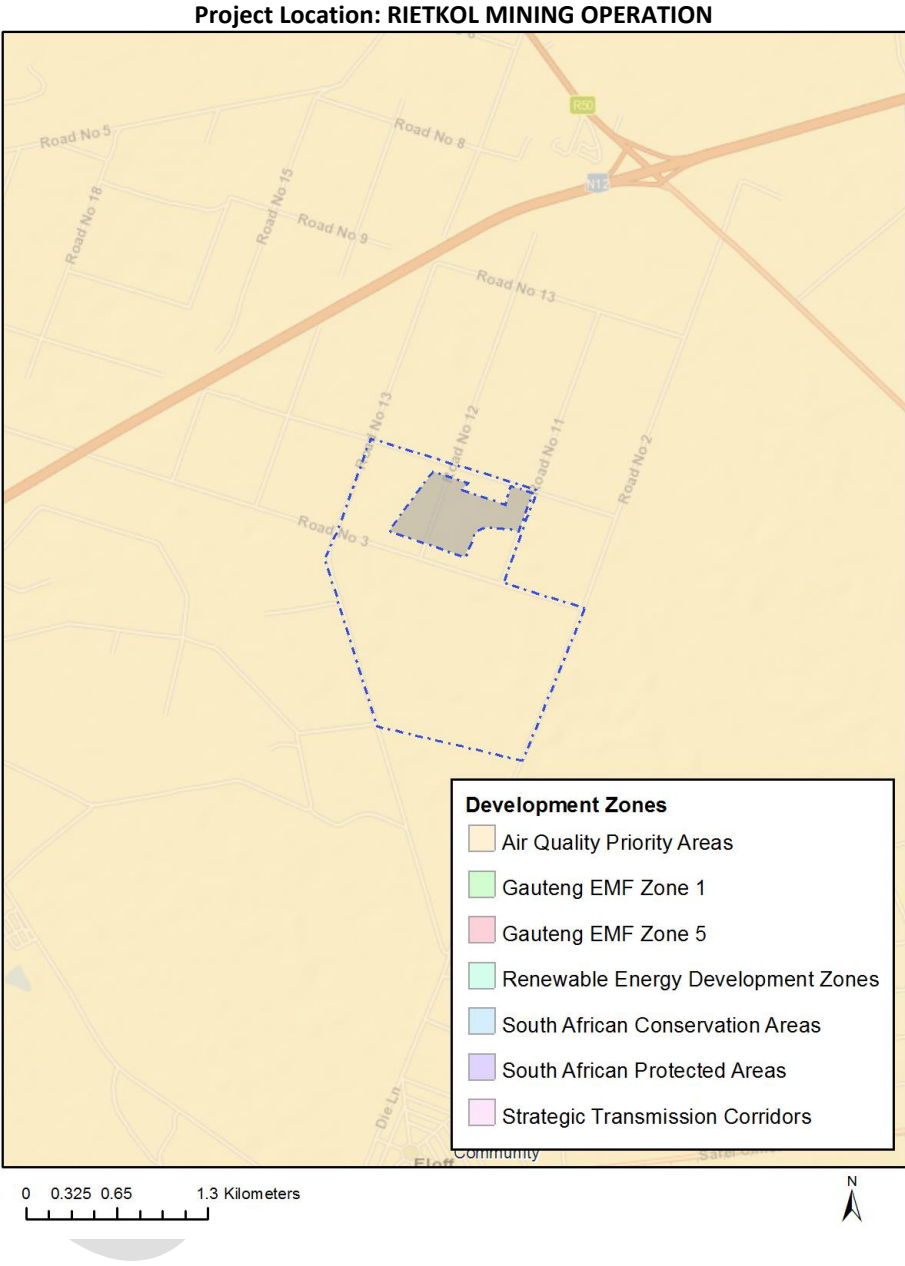
The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this footprint are indicated below.

Incentive,	Implication
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restriction or prohibition	
Strategic Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GN11316February2018.pdf
Air Quality-Highveld Priority Area	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/HIGHVELD_PRIORITY_AREA_AQMP.pdf

OFFICIAL

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



Proposed Development Area Environmental Sensitivity

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

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

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

Specialist assessments identified

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

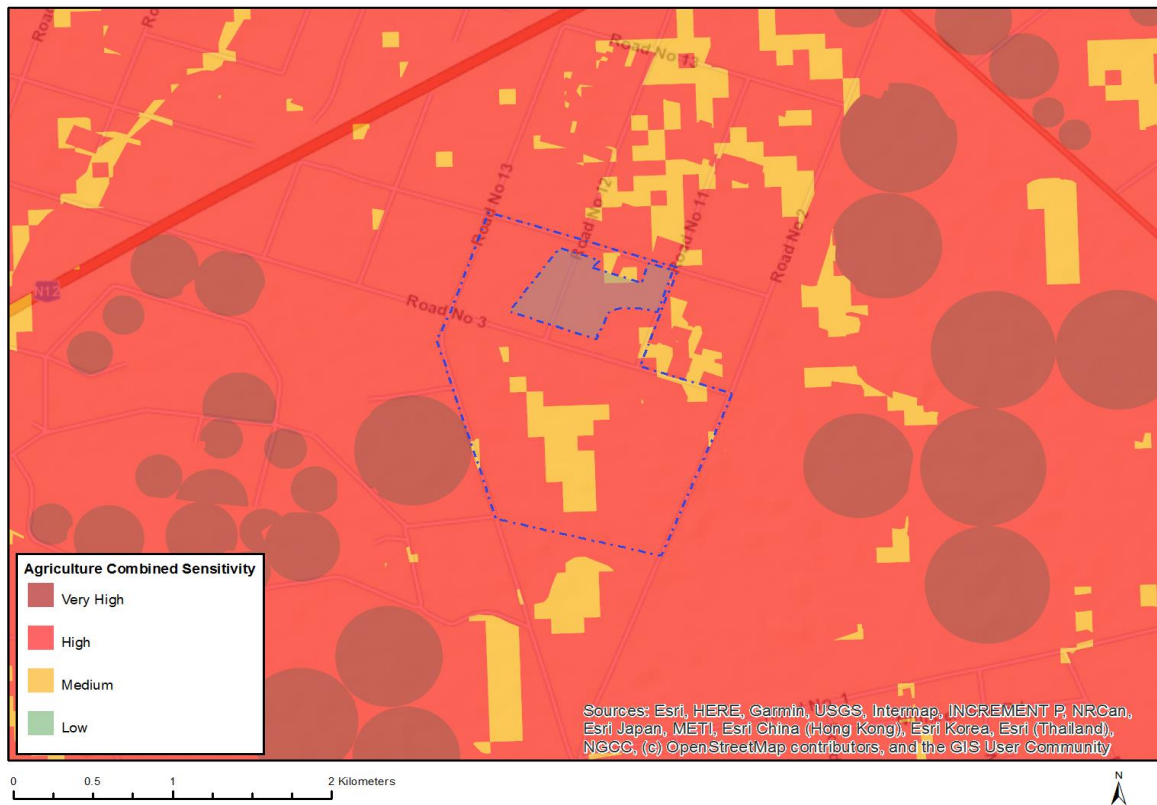
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
5	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
6	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Hydrology	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols

	Assessment	/Gazetted General Requirement Assessment Protocols.pdf
8	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Noise Impacts Assessment Protocol.pdf
9	Radioactivity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.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	Climate Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
13	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
14	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
15	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
16	Seismicity Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
17	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Plant Species Assessment Protocols.pdf
18	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Animal Species Assessment Protocols.pdf

Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed footprint for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.

MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

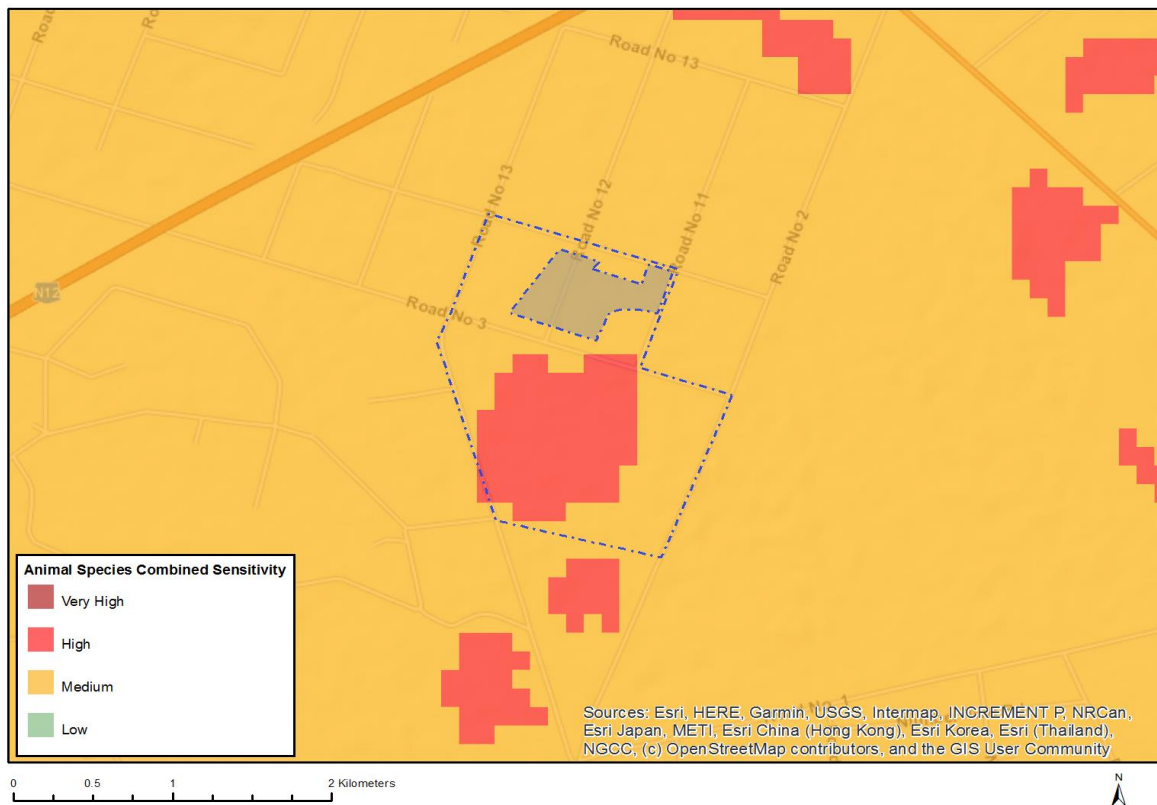


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
High	Small Holdings;Land capability;09. Moderate-High/10. Moderate-High
High	Small Holdings;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



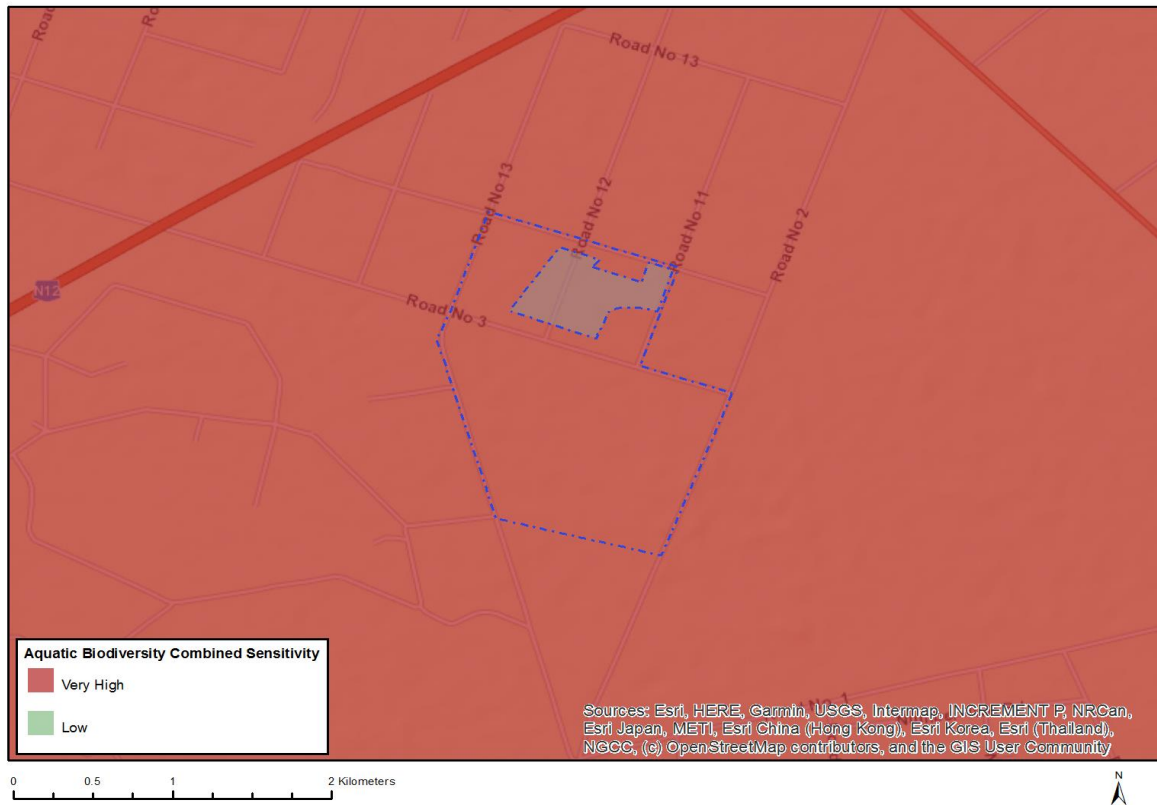
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Medium	Invertebrate-Clonia uvarovi
Medium	Mammalia-Chrysospalax villosus
Medium	Mammalia-Hydrictis maculicollis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

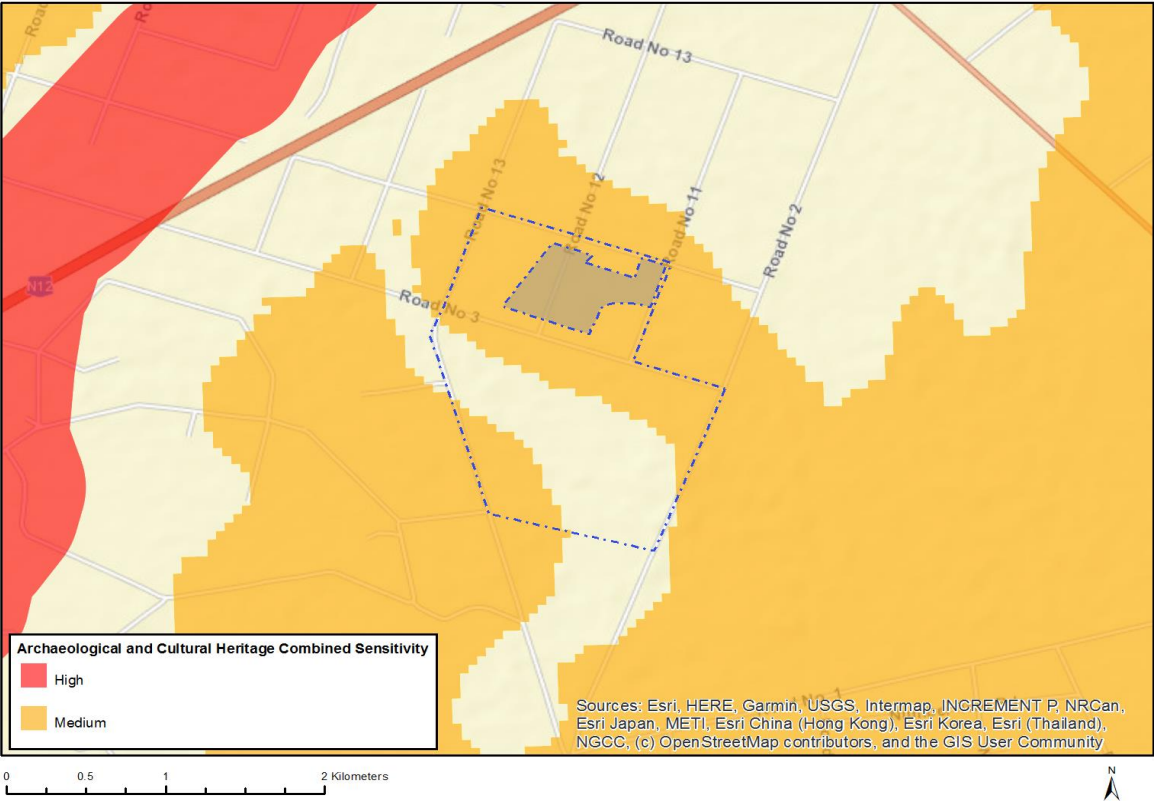


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Strategic water source area

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

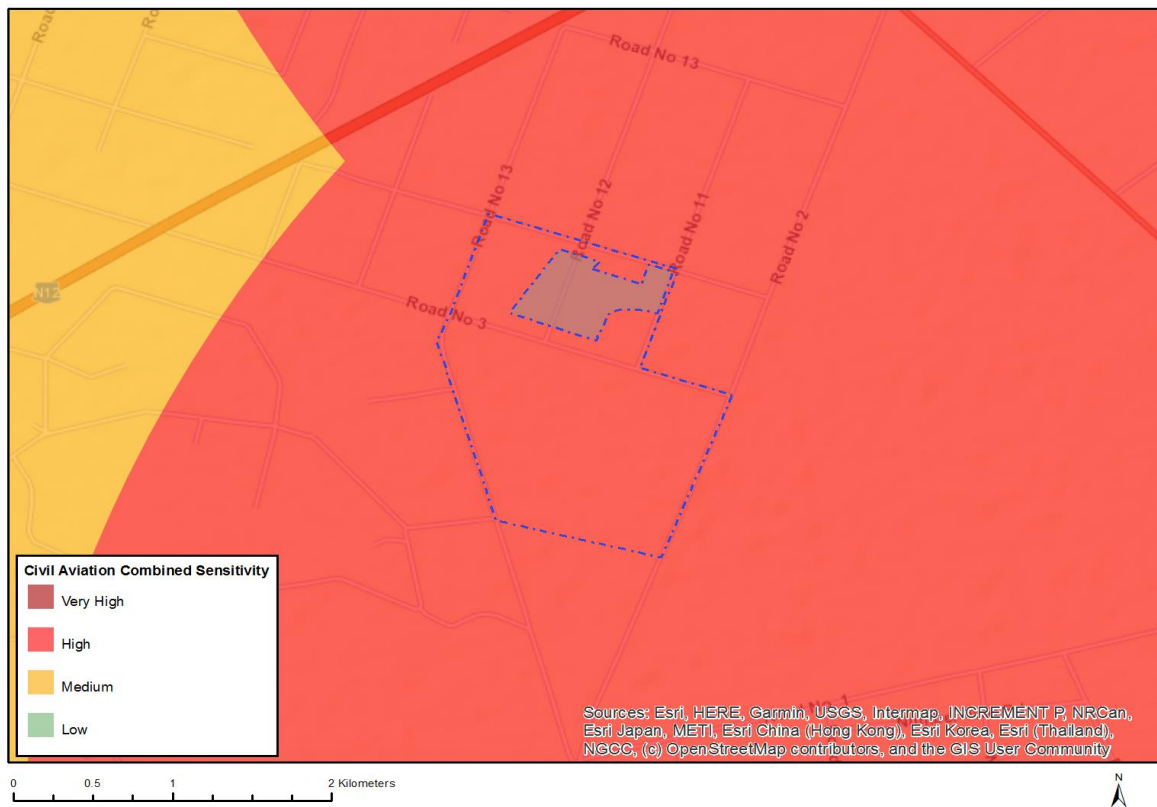


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Mountain or ridge

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

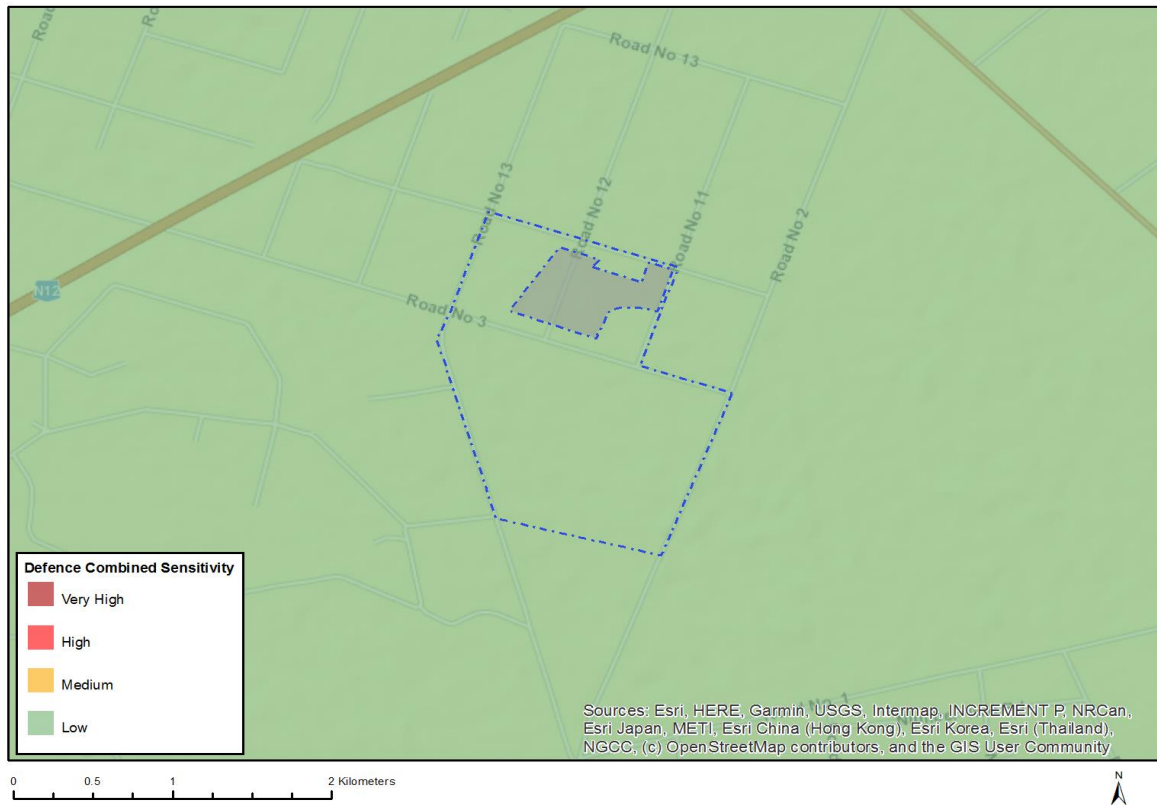


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

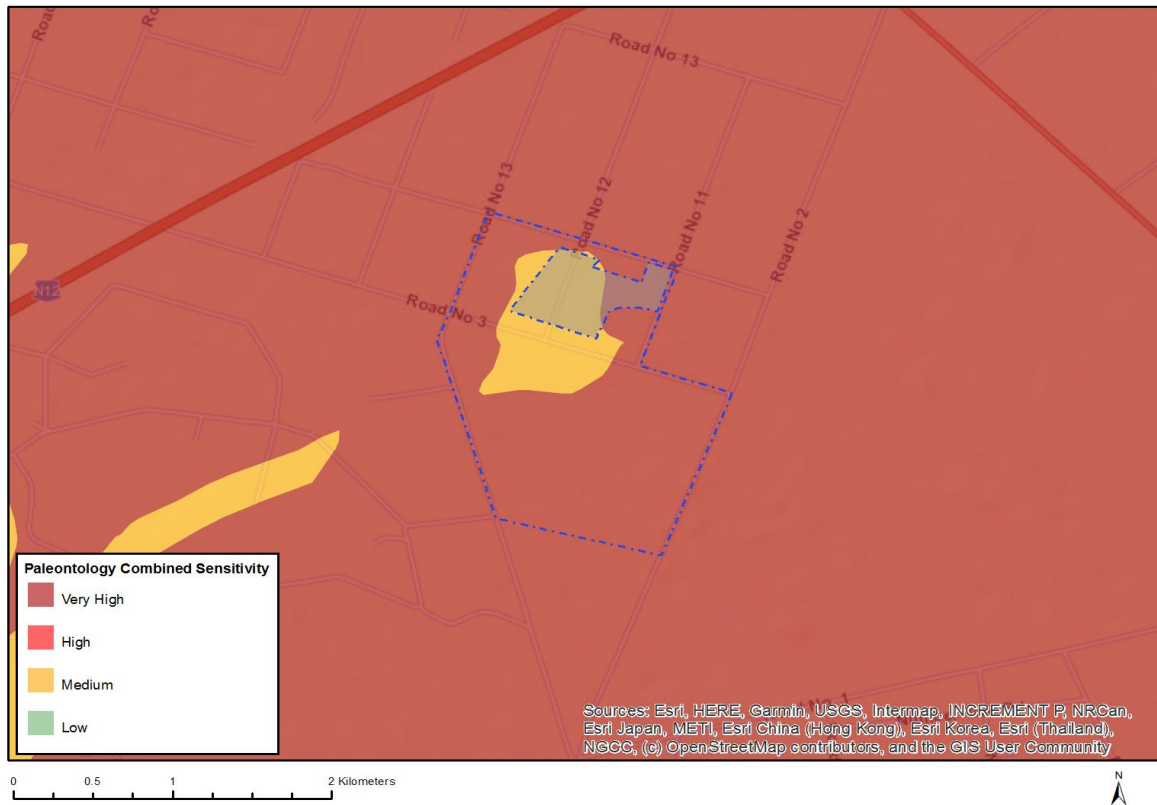


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

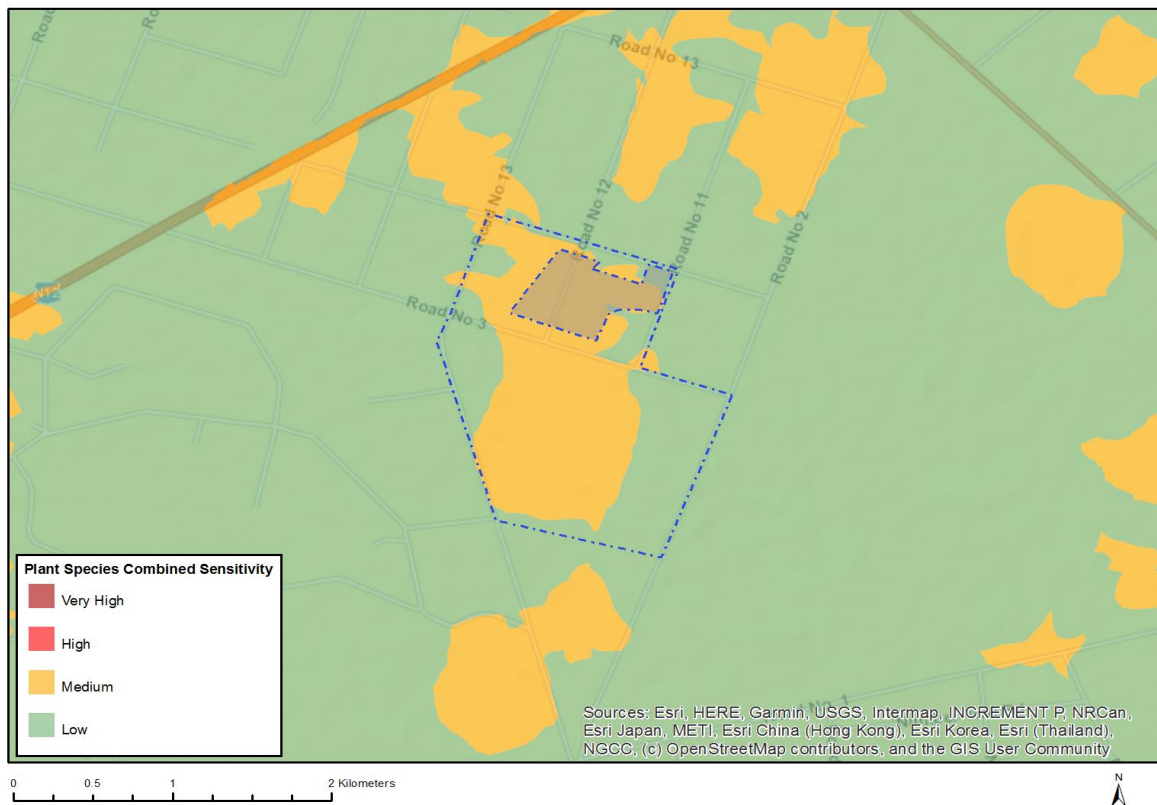


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



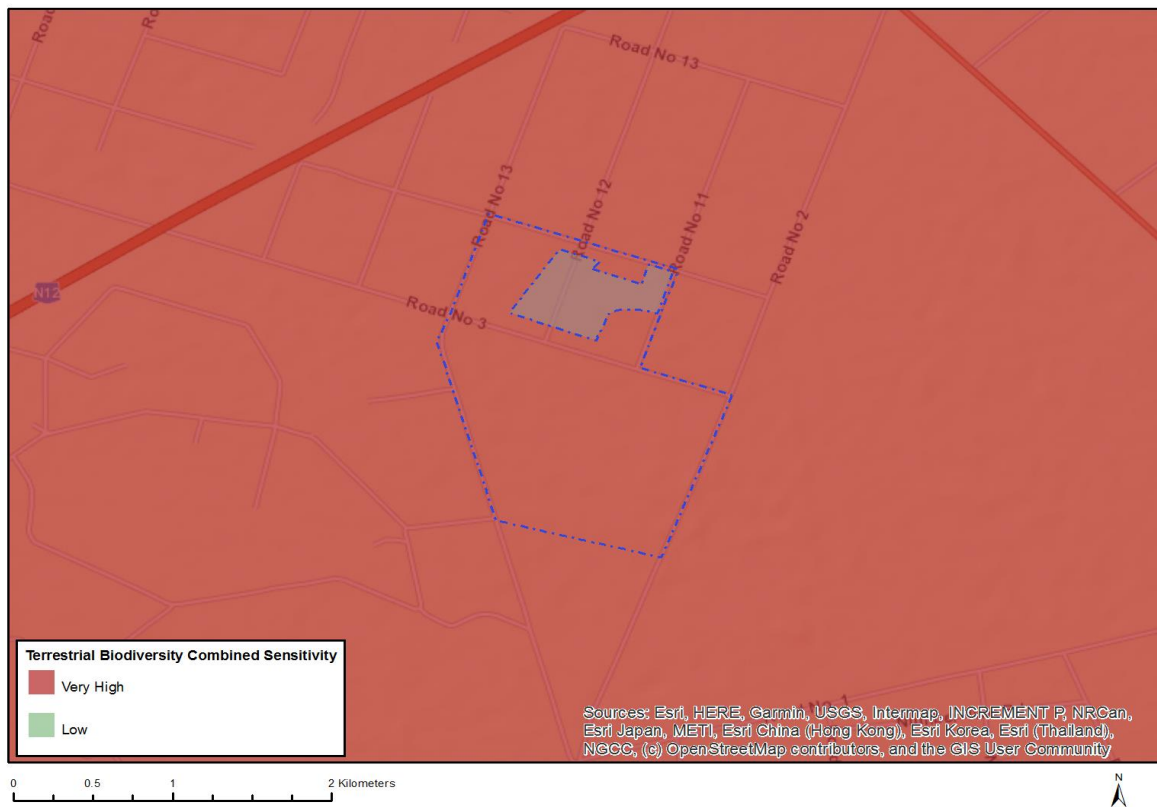
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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	Sensitive species 691
Medium	<i>Pachycarpus suaveolens</i>
Medium	<i>Brachycorythis conica</i> subsp. <i>transvaalensis</i>

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Vulnerable ecosystem