



Reference No: To be confirmed

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13 June 2023

Attention: Regional Manager

Dear Me B Ngebulana

RE: SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORISATION AS REQUIRED BY THE 2014 EIA REGULATIONS (AS AMENDED) – MINING RIGHT APPLICATION OVER A PORTION OF PORTION 3 OF THE FARM THE ORCHARDS NO 233, ALBANY MAGISTERIAL DISTRICT, EASTERN CAPE PROVINCE. APPLICANT: MAKHANDA MINING (PTY) LTD.

Herewith please receive the screening report for an environmental authorisation application, as required in terms of the 2014 NEMA EIA Regulations (as amended) over a portion of Portion 3 of the farm The Orchards No 233, in the Albany magisterial district of the Eastern Cape.

The report identified the following list of specialist assessment for inclusion in the assessment report:

- Agricultural Impact Assessment;
- Landscape/Visual Impact Assessment;
- Archaeological and Cultural Heritage Impact Assessment;
- Paleontology Impact Assessment;
- Terrestrial Biodiversity Impact Assessment;
- Aquatic Biodiversity Impact Assessment;
- Hydrology Assessment;
- Noise Impact Assessment;
- Radioactivity Impact Assessment;
- Traffic Impact Assessment;
- Geotechnical Assessment;

the goal isn't to live forever, it is to protect a planet that will



- Climate Impact Assessment;
- Health Impact Assessment;
- Socio-economic Assessment;
- Ambient Air Quality Impact Assessment;
- Seismicity Assessment;
- Plant Species Assessment;
- Animal Species Assessment.

Makhanda Mining (Pty) Ltd (Applicant) appointed Greenmined Environmental (Pty) Ltd as the environmental impact assessment practitioner (EAP) to undertake the EIA associated with the proposed mining right application to mine ball clay, clay (general), gravel, kaolin, and aggregate from 39.2 ha of the abovementioned property. The mining right footprint encompasses at least three areas previously altered to allow for clay mining. Considering this, Greenmined would like to respond as follows to the list of required specialist studies:

■ Agricultural Impact Assessment (AIA):

The screening tool shows the Agricultural Theme Sensitivity as Low/Medium meaning the land capability of the area is of low-moderate significance. The Applicant also entered into an agreement with the landowner who in principle supports the mining application. As mentioned earlier, the mining right footprint was selected over areas previously mined for clay. It also encompasses the mining permit area of Grahamstown Mining (Pty) Ltd t/a Makana Brick. Upon closure of the mine, the area will be reinstated, and the vegetation re-established. The rehabilitated mining area will be returned to the landowner. Considering this, as well as the low agricultural value of the area and the high mining potential, no need for an agricultural impact assessment could be identified.

■ Landscape/Visual Impact Assessment:

Even though the project application extends over an area of ±39 ha, the Applicant proposes progressive rehabilitation to reinstate the mined areas before new areas are opened. Further to this, the mining right will be established in an area that is well known for clay mining. Should the rehabilitation objectives, to be proposed as part of the Closure Plan, be implemented it is believed that the visual impact of the proposed activity will be of low significance to the surrounding environment, and that a Landscape/Visual Impact Assessment is unnecessary.



- **Archaeological and Cultural Heritage Impact Assessment (HIA) & Paleontology Impact Assessment (PIA):**

The screening tool shows the archaeological sensitivity of the area mainly as low. A palaeontologist will however be appointed to report on the palaeontological sensitivity of the study area. The report will form part of the DEIAR to be distributed for public comments.
- **Terrestrial Biodiversity Impact Assessment (TBIA) & Plant Species Assessment (PSA) & Animal Species Assessment (ASA):**

The Biodiversity Company was appointed to assess the terrestrial biodiversity (including animal- and plant sensitivity) of the study area. The relevant report will form part of the DEIAR that will be available for public comments.
- **Aquatic Biodiversity Impact Assessment (ABIA) & Hydrology Assessment (HA):**

The proposed mining footprint is more than 100 m from the Botha's River, does not cross any watercourses, will not extract any water from the farm, and extends across previously approved mining areas. Considering this, no need could be identified for an ABIA and/or HA.
- **Noise Impact Assessment (NIA) & Ambient Air Quality Impact Assessment:**

Clay mining has been part of the land use of this property for numerous years (since 1900's). The Applicant proposes to mine the clay with a loader that will load tipper trucks that will transport the mineral from site. If the mining right is approved, the mining method will resemble that of the current mining permit approved on the property. No additional noise, or dust impacts (other than already experience on site) are anticipated, and therefore no NIA and/or air quality impact assessment is applicable to this project.
- **Radioactivity Impact Assessment & Seismicity Assessment**

No radioactivity impact assessment or Seismicity Assessment is deemed necessary as the mining operation will not perform activities of radioactive nature or generate hazardous waste of radioactive nature. Neither is the development planned in an area of seismic importance.



■ Traffic Impact Assessment (TIA):

The proposed development will take place within an area previously approved for mining and make use of the existing farm roads. The site has direct access to the adjacent N2 national road, and as the proposed project will resemble the already approved mining permit operations on the site, and no increase in traffic is anticipated no need could be identified for a TIA.

■ Geotechnical Assessment:

No reason for a geotechnical assessment could be identified as no permanent infrastructure will be established on any unstable, natural area not previously developed.

■ Climate Impact Assessment & Health Impact Assessment:

The proposed development will not affect the climate or health of the surrounding community as all the activities will be contained within the boundaries of the mine. The mine will operate in accordance with the Mine Health and Safety Act, 2016. Therefore, no Climate and/or Health Impact Assessment is deemed necessary.

■ Socio-economic Assessment (SEA):

The mining of the clay will be outsourced to a sub-contractor with ±14 employees including management. In terms of the Social and Labour Plan to be approved as part of the proposed mining right application, the Applicant has an obligation to contribute to Human Resource Development and Local Economic Development (LED). It is proposed that 14 employees support ±45 dependents, considering that each household contains an average of 3.2 persons. Since most of the potential employees reside within the Makana Local Municipality, it is fair to presume that most monthly earned salaries will be spent in the local area. Indirectly, through the payment for services and suppliers the mine will also support employment of the procurement partners. In addition, the operation will contribute to the local economy of the area through the implementation of a Local Economic Development project identified by and agreed with the Makana Local Municipality. As mentioned earlier, the Applicant entered into surface use agreements with the property owner as well as Grahamstown Mining (Pty) Ltd t/a Makana Brick (as a lawful occupier) regarding the proposed mining right application. Considering this, and the positive impact that the proposed project will have on the socio-economic status of the surrounding area a SEA is not deemed necessary.



Considering the above, we propose that the Palaeontological Assessment and Terrestrial Biodiversity Impact Assessment/Compliance Statement (inclusive of animal- and plant sensitivity) be the only specialist studies currently deemed applicable to the mining right application of Makhanda Mining (Pty) Ltd.

We trust you find this in order. Please do not hesitate to contact me in the event of any uncertainties.

Kind Regards

A handwritten signature in black ink, appearing to read 'Fouche', with a horizontal line underneath.

Christine Fouche

Greenmined Environmental (Pty) Ltd

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

EIA Reference number: TBC

Project name: Orchards Mining Right

Project title: Makhanda Mining Mining Right Application

Date screening report generated: 12/06/2023 15:35:03

Applicant: Makhanda Mining (Pty) Ltd

Compiler: C Fouche

Compiler signature: *Christine Fouche*

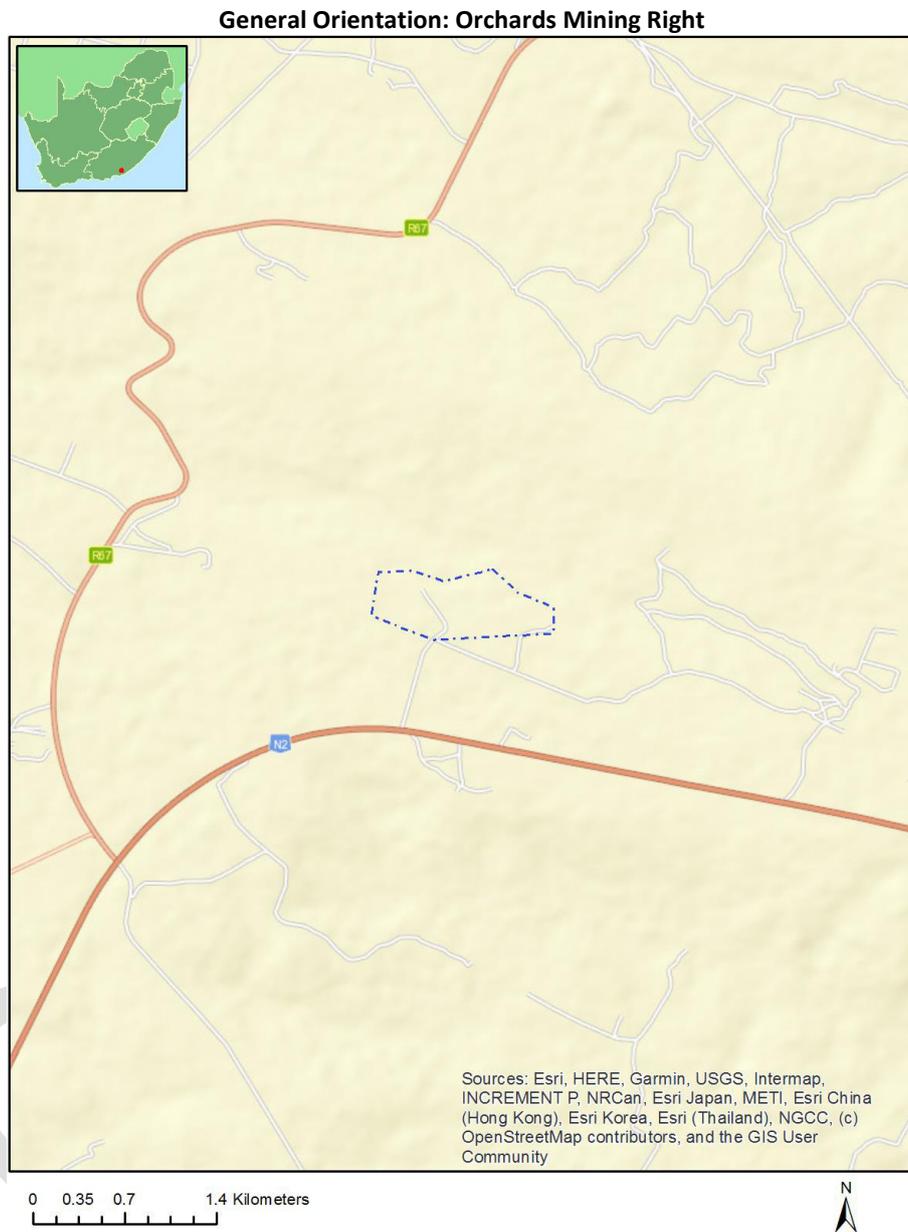
Application Category: Mining|Mining Right

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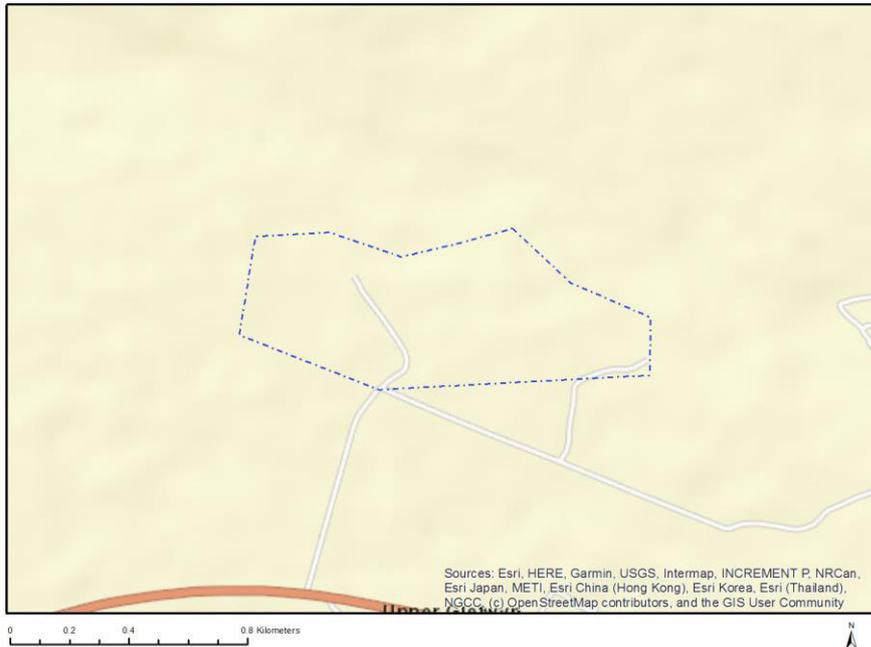
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Proposed Project Location

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	THE ORCHARDS	233	0	33°15'32.88S	26°37'50.5E	Farm
2	GROBBELERS KLOOF	334	0	33°16'55.84S	26°37'54.94E	Farm
3	THE ORCHARDS	233	3	33°15'55.84S	26°37'47.97E	Farm Portion
4	GROBBELERS KLOOF	334	3	33°16'16.15S	26°36'55.22E	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 nearby wind or solar developments found.

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

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:

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 site are indicated below.

Incentive, restriction or prohibition	Implication
Strategic Gas Pipeline Corridors-Phase 7: Coega to Richards Bay	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.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	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 Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/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

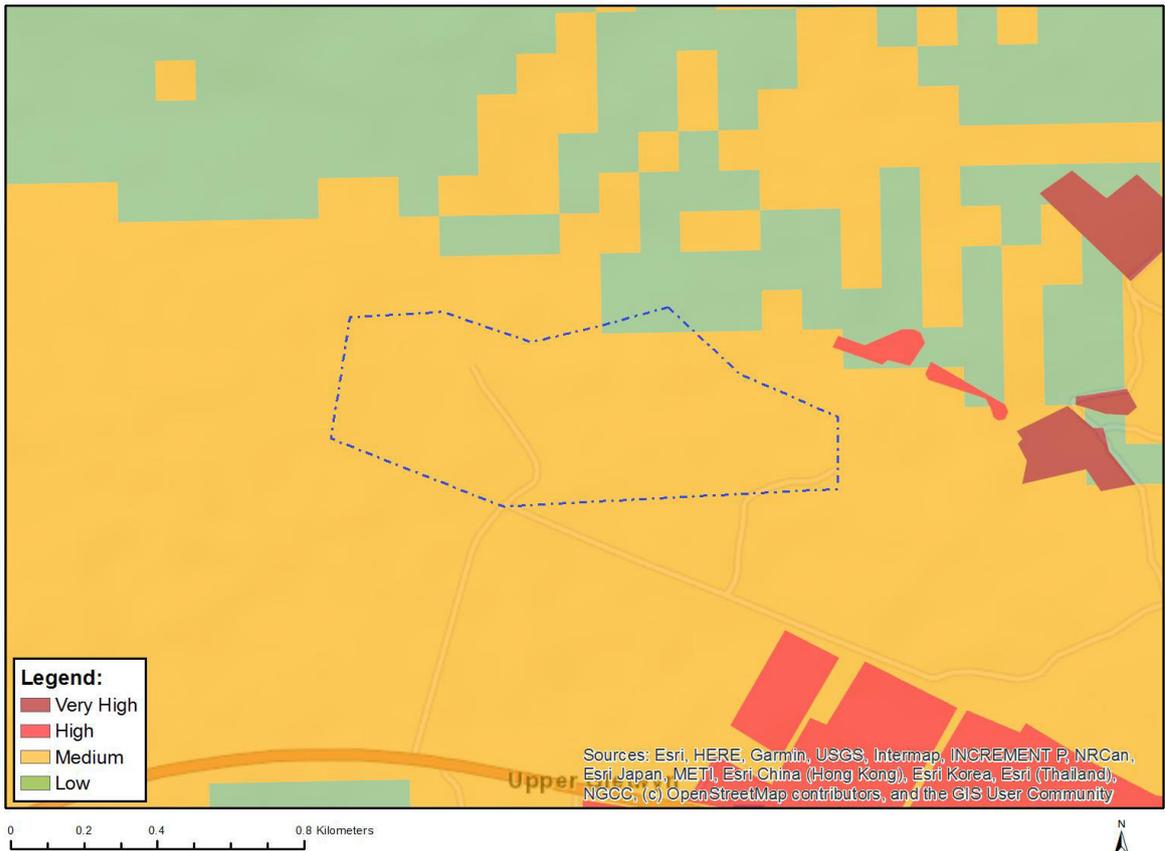
		rotocols.pdf
17	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Plant Species Assessment Protocols.pdf
18	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Animal Species Assessment Protocols.pdf

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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

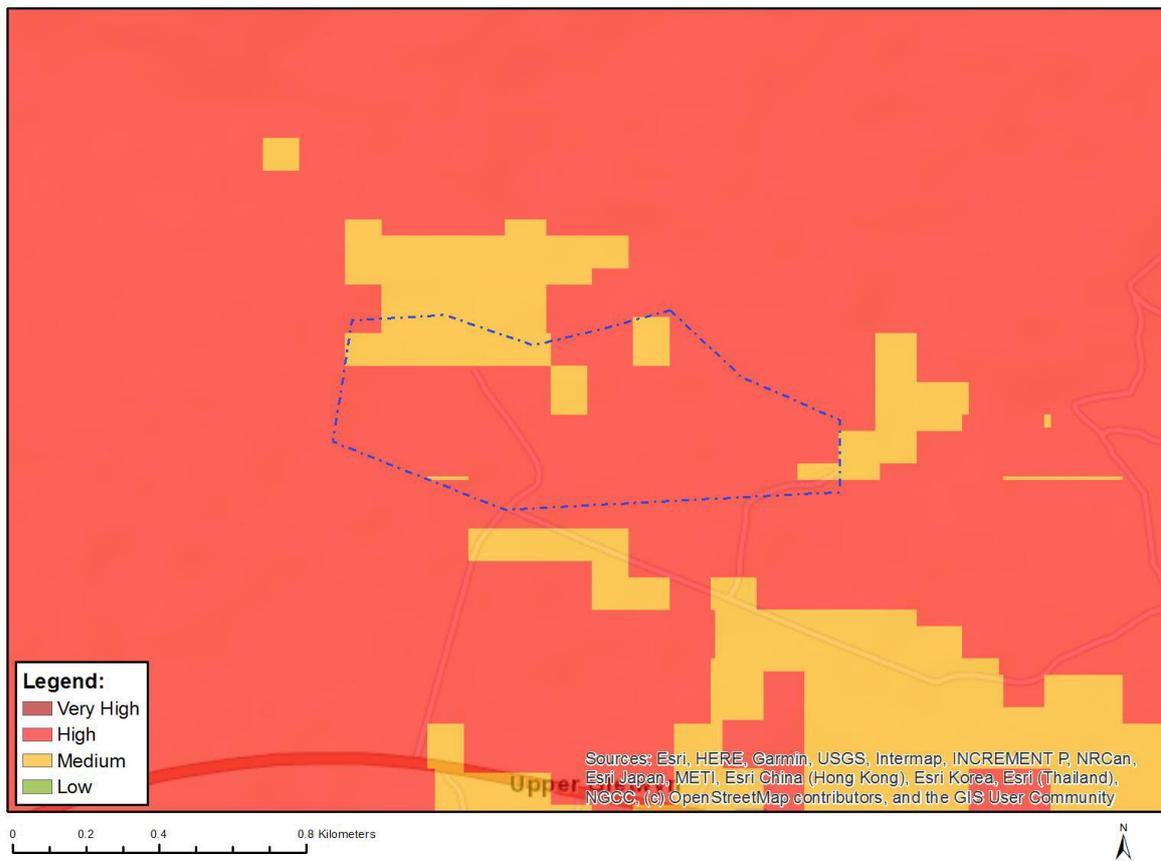


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



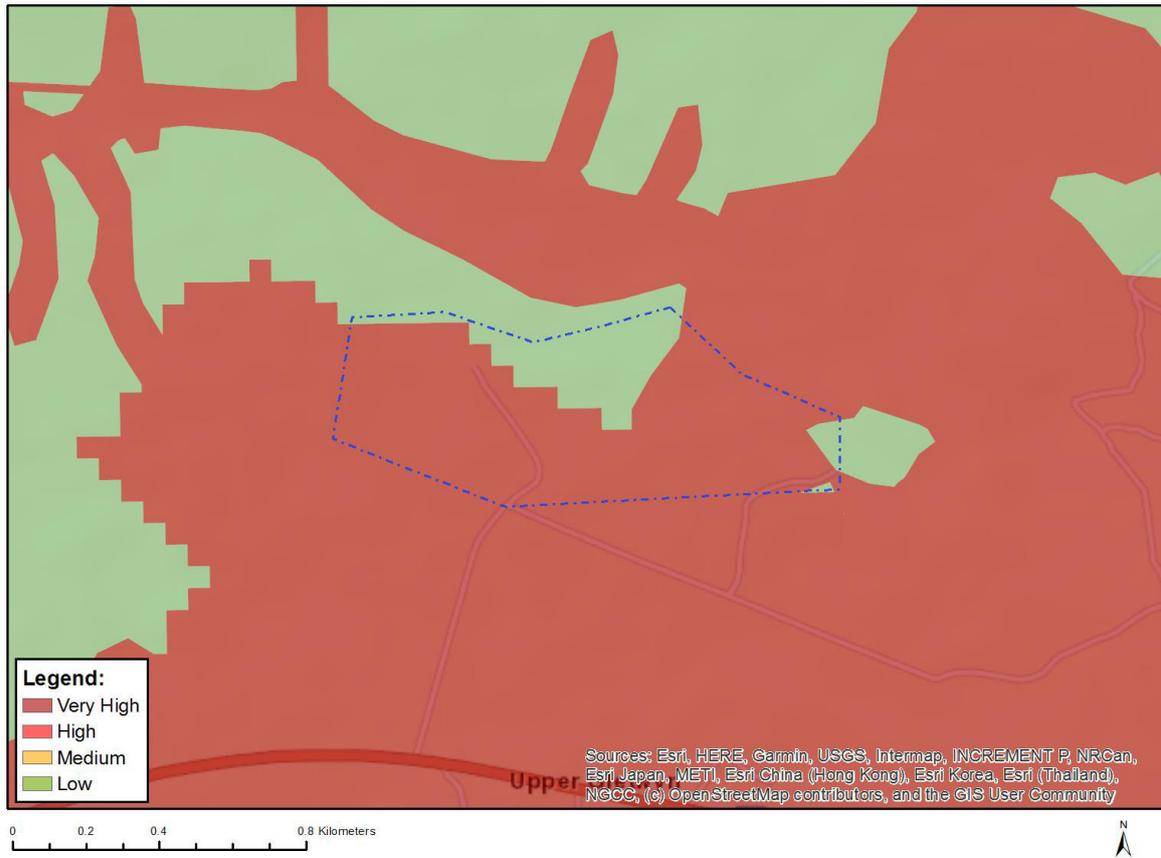
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Polemaetus bellicosus
High	Aves-Stephanoaetus coronatus
High	Aves-Circus maurus
High	Aves-Neotis denhami
Medium	Aves-Eupodotis senegalensis
Medium	Aves-Circus ranivorus
Medium	Sensitive species 8

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

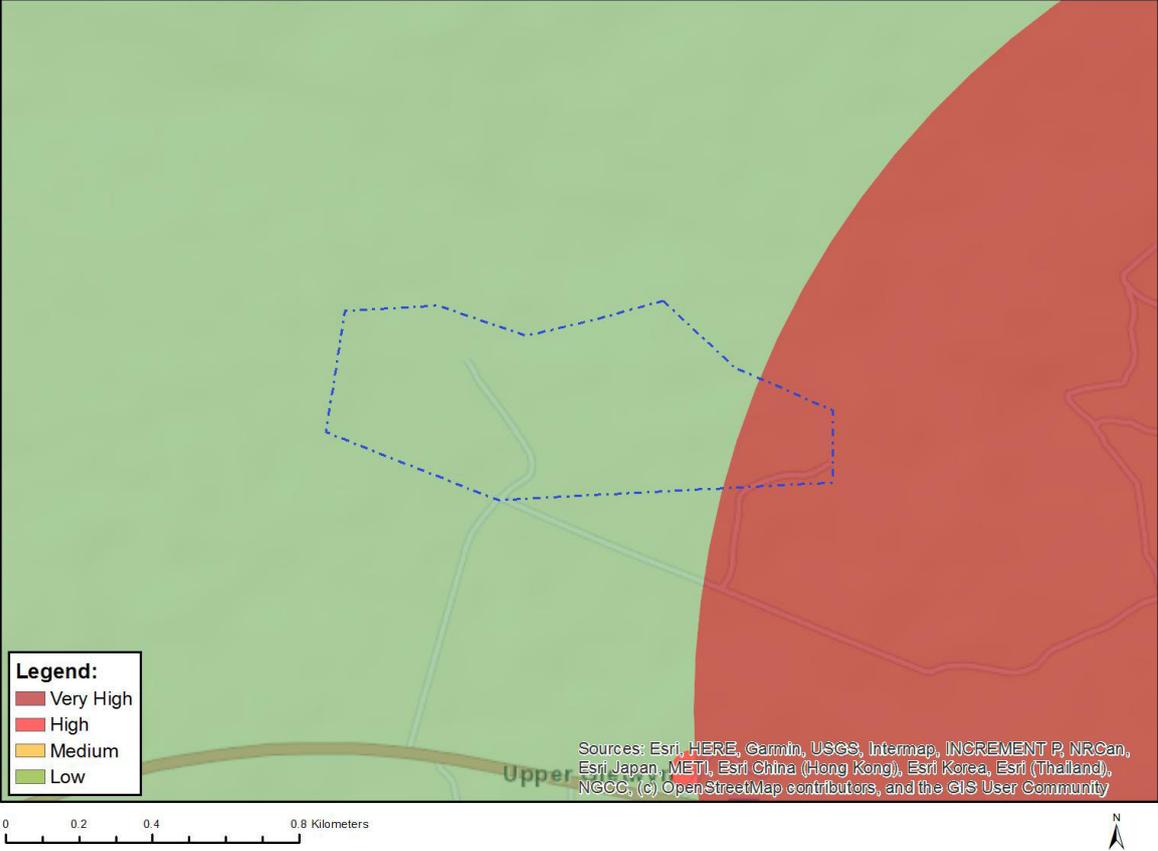


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	ESA 1
Very High	FEPA Subcatchment

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
Very High	Within 2km of a Grade II Heritage site

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

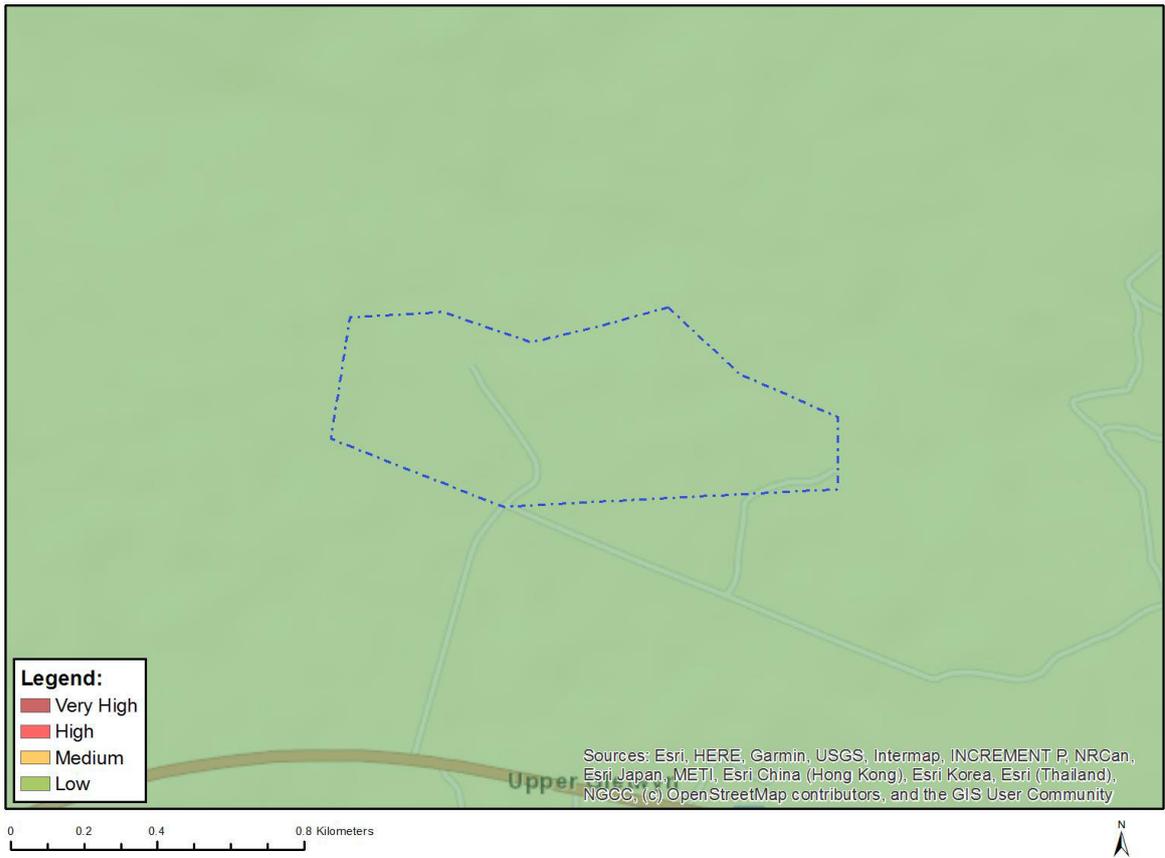


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome
High	Dangerous and restricted airspace as demarcated

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

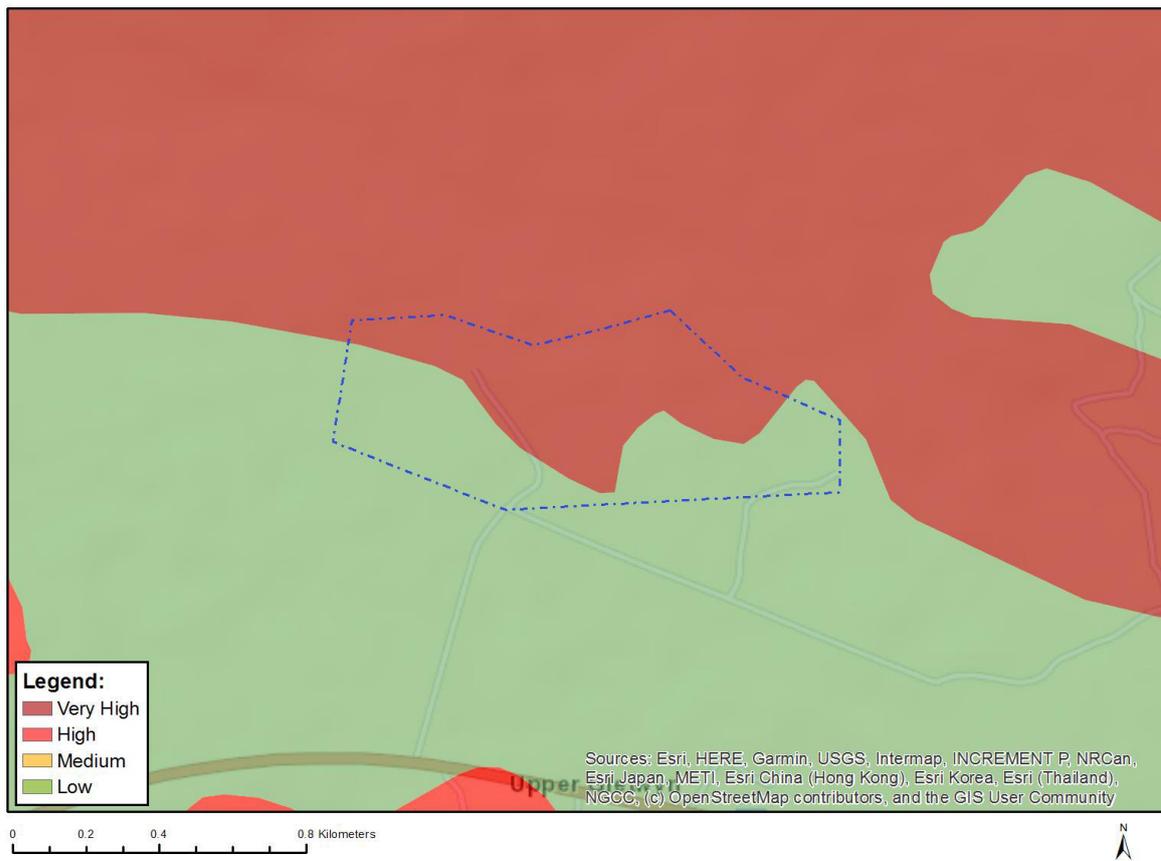


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

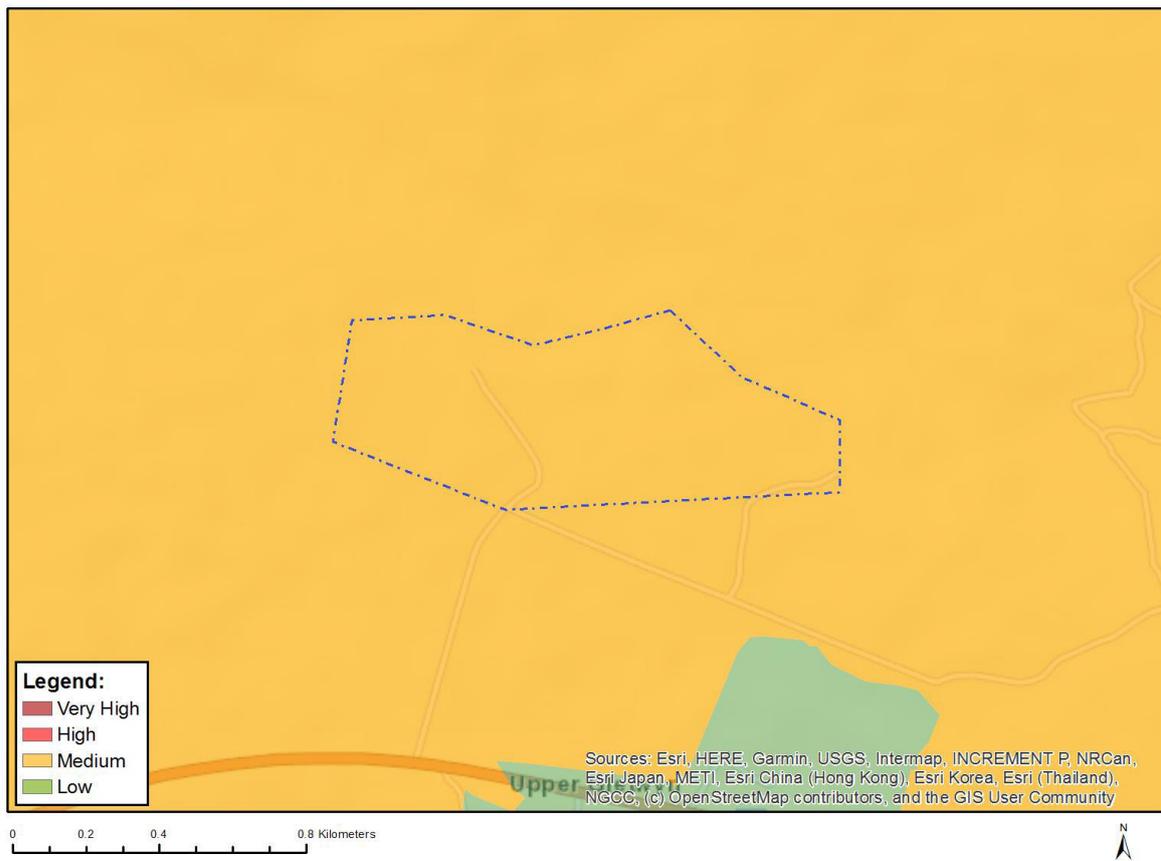


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Features with a Low paleontological sensitivity
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)
Medium	Faucaria tigrina
Medium	Sensitive species 969
Medium	Sensitive species 72
Medium	Sensitive species 377
Medium	Apodolirion macowanii
Medium	Isoetes wormaldii
Medium	Sensitive species 1162
Medium	Sensitive species 1247
Medium	Sensitive species 708
Medium	Sensitive species 488
Medium	Sensitive species 97
Medium	Agathosma bicornuta
Medium	Syringodea flanaganii

Medium	Asclepias compressidens
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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
Very High	ESA 1
Very High	CBA 2
Very High	CBA 1
Very High	FEPA Subcatchment