

**SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION OR
FOR A PART TWO AMENDMENT OF AN ENVIRONMENTAL AUTHORISATION
AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED DEVELOPMENT
FOOTPRINT ENVIRONMENTAL SENSITIVITY**

EIA Reference number: TBC

Project name: Bloemsmond Grid Infrastructure

Project title: Bloemsmond Grid Infrastructure

Date screening report generated: 11/10/2019 12:29:00

Applicant: Bloemsmond Grid (Pty) Ltd

Compiler: Cape EAPrac

Compiler signature:

.....

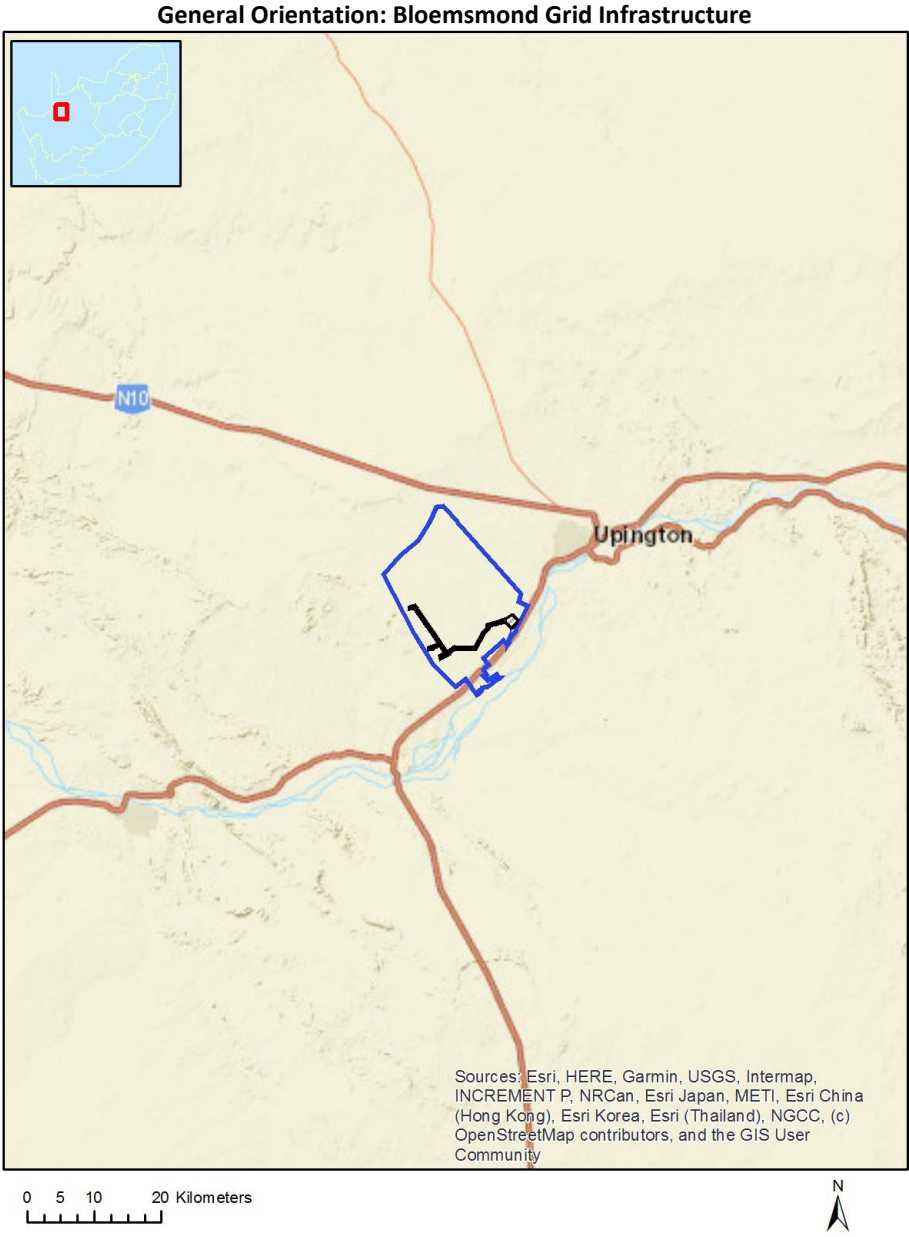


Table of Contents

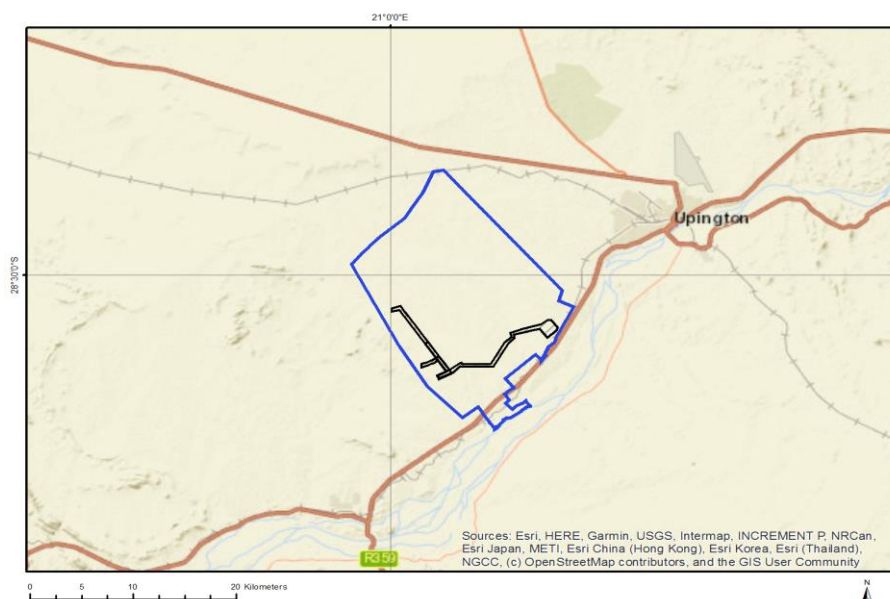
- Proposed Project Location 3
 - Orientation map 1: General location 3
- Map of proposed site and relevant area(s) 4
 - Cadastral details of the proposed site 4
 - Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area 6
 - Environmental Management Frameworks relevant to the application 7
- Environmental screening results and assessment outcomes 7
 - Relevant development incentives, restrictions, exclusions or prohibitions 7
- Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones 8
 - Proposed Development Area Environmental Sensitivity 9
 - Specialist assessments identified 9
- Results of the environmental sensitivity of the proposed area 11
 - MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY 11
 - MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY 12
 - MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY 13
 - MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY 14
 - MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY 15
 - MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY 16
 - MAP OF RELATIVE DEFENCE THEME SENSITIVITY 17
 - MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY 18

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	OLYVENHOUTS DRIFT SETTLEMENT (Gordonia)	1080	0	28°29'12.04S	21°5'24.69E	Erven
2	BLOEMS MOND	455	0	28°34'0.44S	21°1'16.03E	Farm
3	MC TAGGART'S CAMP	453	0	28°31'20.25S	21°3'35.91E	Farm
4	TUNGSTEN LODGE	638	0	28°33'48.72S	21°6'7.52E	Farm
5	KLIP PUNT	452	0	28°30'33.28S	21°4'15.58E	Farm
6	ROOIPUNT	617	0	28°28'54.67S	21°1'23.27E	Farm
7	DYASON'S KLIP	454	0	28°33'23.93S	21°2'48.44E	Farm
8	DYASON'S KLIP	454	6	28°37'46.39S	21°5'22.92E	Farm Portion
9	DYASON'S KLIP	454	9	28°37'10.5S	21°5'59.04E	Farm Portion
10	DYASON'S KLIP	454	2	28°36'41.54S	21°6'0.35E	Farm Portion
11	DYASON'S KLIP	454	10	28°37'4.96S	21°5'52.69E	Farm Portion
12	DYASON'S KLIP	454	11	28°36'43.28S	21°5'19.08E	Farm Portion
13	MC TAGGART'S CAMP	453	3	28°31'22.18S	21°3'32.35E	Farm Portion
14		628	0	28°33'44.65S	21°6'8.39E	Farm Portion
15	BLOEMS MOND	455	5	28°34'1.15S	21°0'45.33E	Farm Portion
16	BLOEMS MOND	455	14	28°33'23.71S	21°1'19.6E	Farm Portion
17	DYASON'S KLIP	454	7	28°36'51.67S	21°5'53.32E	Farm Portion
18	DYASON'S KLIP	454	1	28°36'51.29S	21°5'56.44E	Farm Portion
19	DYASON'S KLIP	454	3	28°36'50.04S	21°6'15.51E	Farm Portion
20	ROOIPUNT	617	0	28°28'54.39S	21°1'26.48E	Farm Portion
21	DYASON'S KLIP	454	0	28°33'19.7S	21°2'50.91E	Farm Portion
22	TUNGSTEN LODGE	638	1	28°34'21.1S	21°7'57.92E	Farm Portion
23	DYASON'S KLIP	454	0	28°37'1.55S	21°5'39.2E	Farm Portion
24	KLIP PUNT	452	12	28°30'40.72S	21°4'27.02E	Farm Portion

Development footprint¹ vertices:

Footprint	Latitude	Longitude
1	28°33'27.52S	21°1'57.97E
1	28°35'3.92S	21°3'12.84E
1	28°35'21.91S	21°2'33.21E
1	28°35'12.84S	21°2'28.56E
1	28°35'0.03S	21°2'56.39E
1	28°33'33.45S	21°1'48.85E
1	28°33'27.52S	21°1'57.97E
2	28°32'11.55S	21°0'59.05E
2	28°35'3.98S	21°3'12.78E
2	28°35'21.91S	21°2'33.16E
2	28°35'12.82S	21°2'28.49E
2	28°35'0.06S	21°2'56.53E
2	28°33'33.39S	21°1'48.96E
2	28°31'48.56S	21°0'27.4E
2	28°31'53.71S	21°0'4.57E
2	28°31'43.35S	21°0'4.44E
2	28°31'36.45S	21°0'31.82E
2	28°32'11.55S	21°0'59.05E
3	28°34'25.31S	21°2'9.98E
3	28°34'21.58S	21°2'17.47E
3	28°34'11.11S	21°2'31.82E
3	28°35'3.38S	21°3'12.5E
3	28°35'21.02S	21°2'33.05E
3	28°35'12.11S	21°2'27.86E
3	28°34'59.8S	21°2'55.17E
3	28°34'25.69S	21°2'29.22E
3	28°34'28.07S	21°2'26.15E
3	28°34'30.28S	21°2'22.53E
3	28°34'34.77S	21°2'13.29E
3	28°34'36.3S	21°2'8.28E
3	28°34'40.68S	21°1'59.41E
3	28°34'46.7S	21°1'38.87E
3	28°34'36.03S	21°1'38.51E
3	28°34'30.45S	21°1'56.58E
3	28°34'26.57S	21°2'6.01E
3	28°34'25.31S	21°2'9.98E
4	28°35'23.61S	21°2'33.44E
4	28°35'12.68S	21°2'27.52E
4	28°34'55.16S	21°3'5.96E
4	28°34'33.22S	21°3'38.76E
4	28°34'33.11S	21°3'42.69E
4	28°34'36.45S	21°3'46.04E
4	28°34'36.31S	21°5'15.83E
4	28°33'29.66S	21°5'58.29E
4	28°33'13.47S	21°6'20.1E
4	28°32'59.53S	21°6'17.57E
4	28°32'58.98S	21°6'20.25E
4	28°32'46.57S	21°7'0.11E
4	28°32'32.96S	21°7'53.09E
4	28°32'20.11S	21°8'12.97E
4	28°32'20.1S	21°8'25.37E

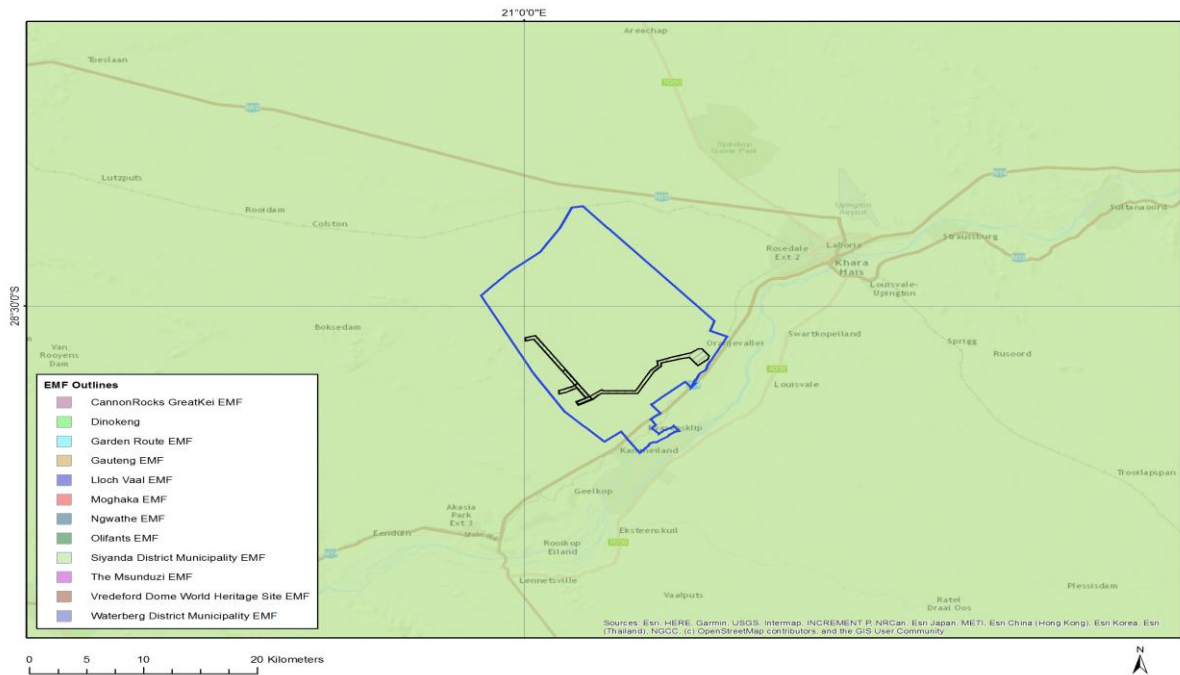
¹ “development footprint”, means the area within the site on which the development will take place and includes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

4	28°32'43.13S	21°8'45.71E
4	28°32'52.46S	21°8'42.32E
4	28°33'13.86S	21°8'13.6E
4	28°32'48.02S	21°7'49.53E
4	28°32'51.04S	21°7'30.62E
4	28°32'56.69S	21°7'3.47E
4	28°33'5.33S	21°6'28.22E
4	28°33'15.79S	21°6'30.05E
4	28°33'33.01S	21°6'9.53E
4	28°34'45.16S	21°5'22.51E
4	28°34'44.88S	21°3'47.98E
4	28°34'44.13S	21°3'40.54E
4	28°34'49.2S	21°3'32.52E
4	28°35'4.48S	21°3'14.16E
4	28°35'23.61S	21°2'33.44E

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	14/12/16/3/3/2/657	Solar CSP	Approved	1.9
2	12/12/20/1831/2	Solar CSP	Approved	1.9
3	12/12/20/1831/1	Solar CSP	Approved	1.9
4	12/12/20/2229	Solar PV	Approved	13.5
5	12/12/20/2169	Solar PV	Approved	28
6	12/12/20/2056	Solar CSP	Approved	30
7	12/12/20/2518	Solar PV	Approved	18.6
8	14/12/16/3/3/3/82	Solar CSP	Approved	5.9
9	12/12/20/2230	Solar PV	Approved	1.3
10	14/12/16/3/3/2/656	Solar CSP	Approved	1.9
11	12/12/20/1831	Solar CSP	Approved	1.9
12	14/12/16/3/3/2/816	Solar PV	Approved	0
13	14/12/16/3/3/2/821	Solar PV	Approved	19.2
14	12/12/20/2146	Solar PV	Approved	19.4
15	12/12/20/777	Solar CSP	Approved	5.1
16	12/12/20/1831/3	Solar PV	Approved	1.9

Environmental Management Frameworks relevant to the application



Environmental Management Framework	LINK
Siyanda District Municipality EMF	https://screening.environment.gov.za/ScreeningDownloads/EMF/SIYANDA_EMF_REPORT_2008.doc

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:

Utilities Infrastructure | Electricity | Distribution and Transmission | Powerline | Powerline.

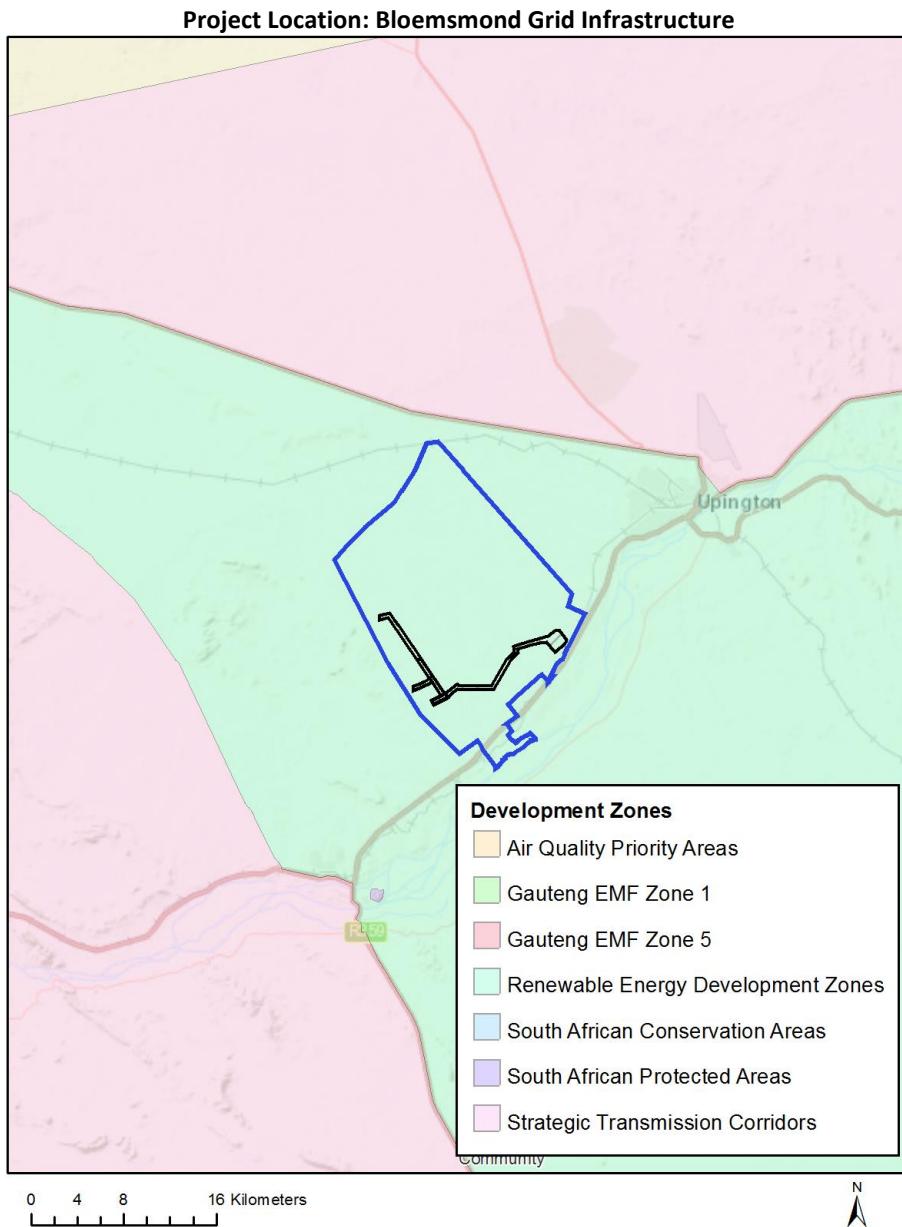
Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibit	Implication

ion	
Strategic Transmission Corridor-Northern corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GNR_350_of_13_April_2017.pdf
Renewable energy development zones 7-Upington	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GNR_350_of_13_April_2017.pdf

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

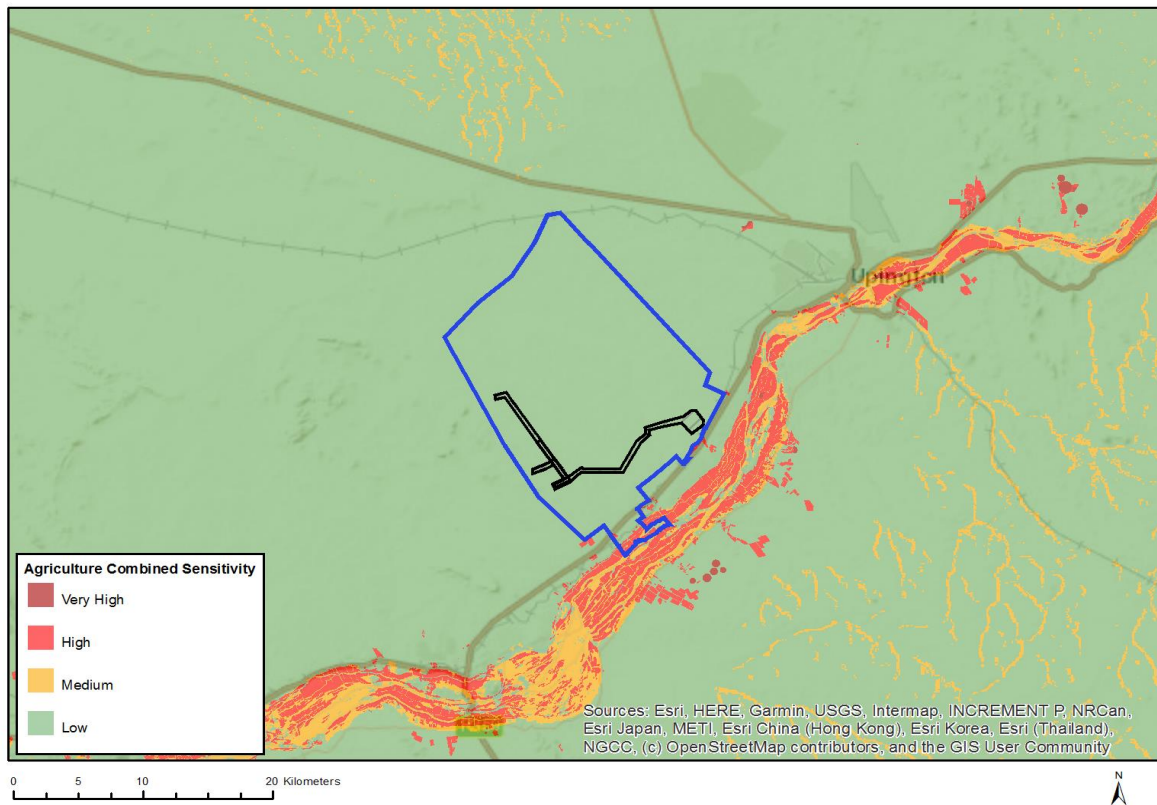
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
3	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
4	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf

	ment	
5	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
6	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Aquatic_Biodiversity_Assessment.pdf
7	Avian Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
8	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
9	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
11	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
12	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_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

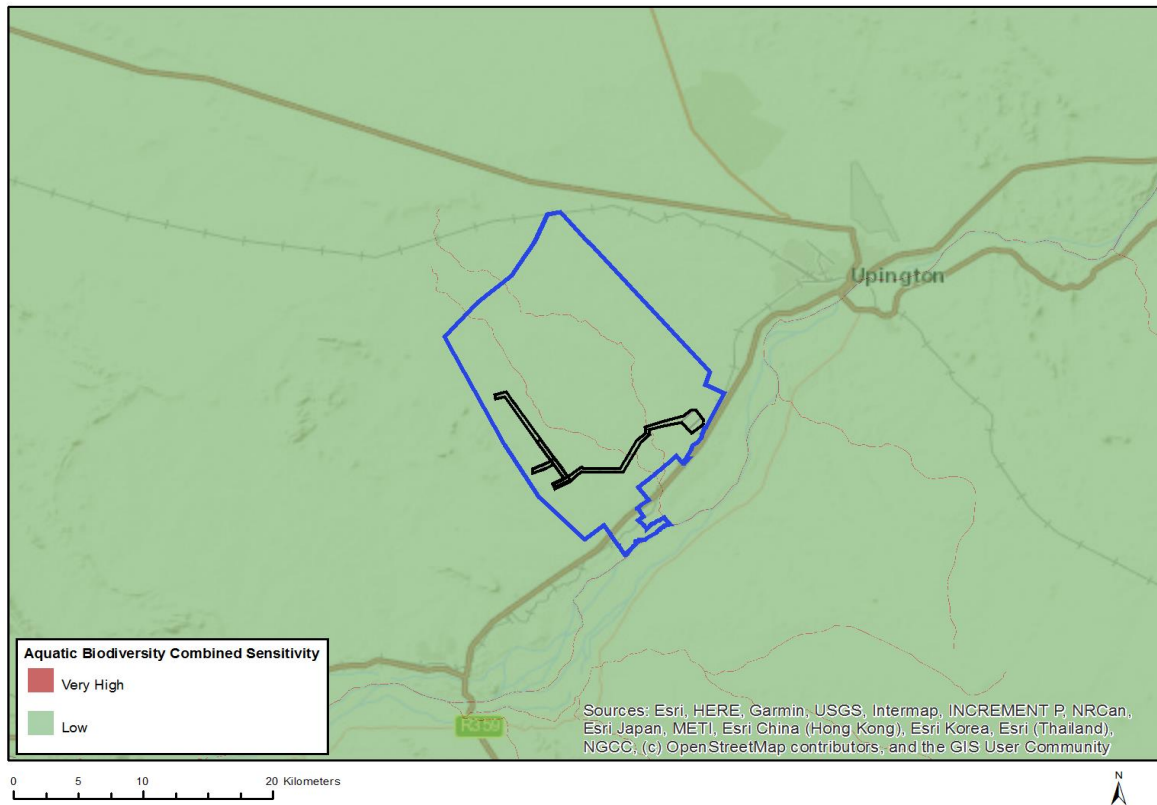


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

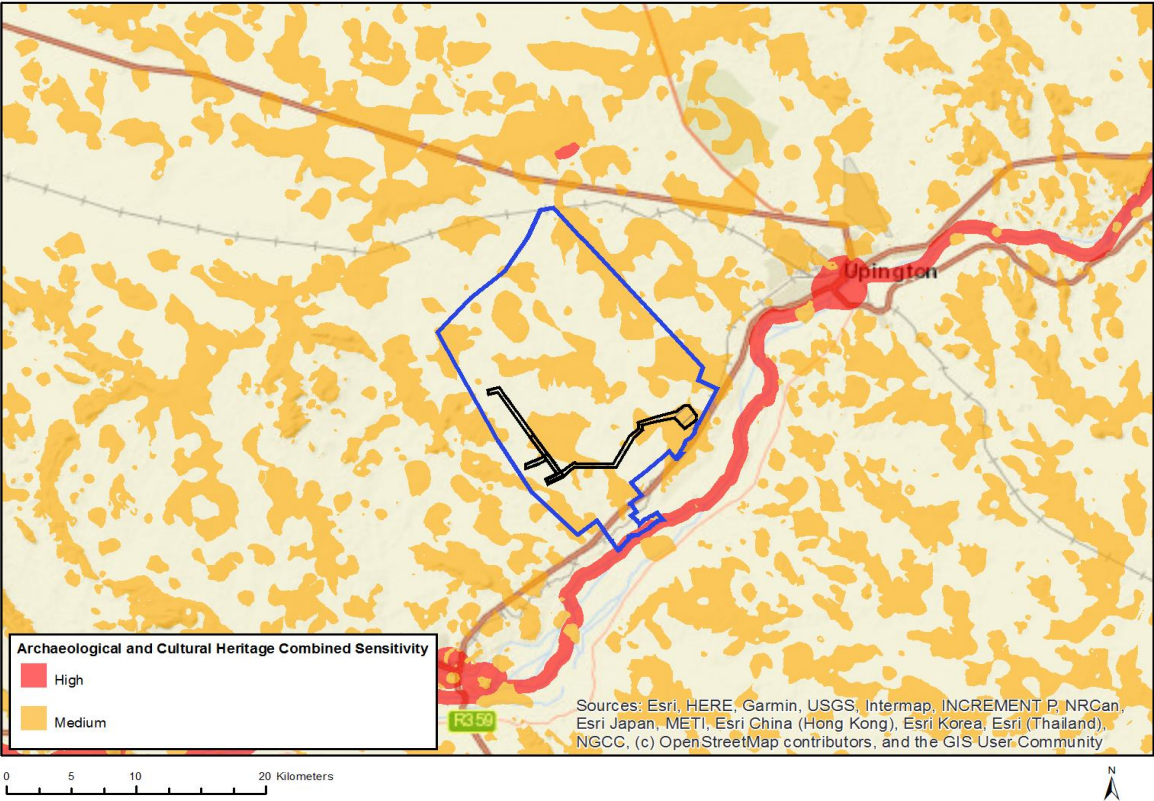


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity Areas
Very High	CBA,River,Helbrandkloofspruit
Very High	CBA,River,Helbrandleege

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

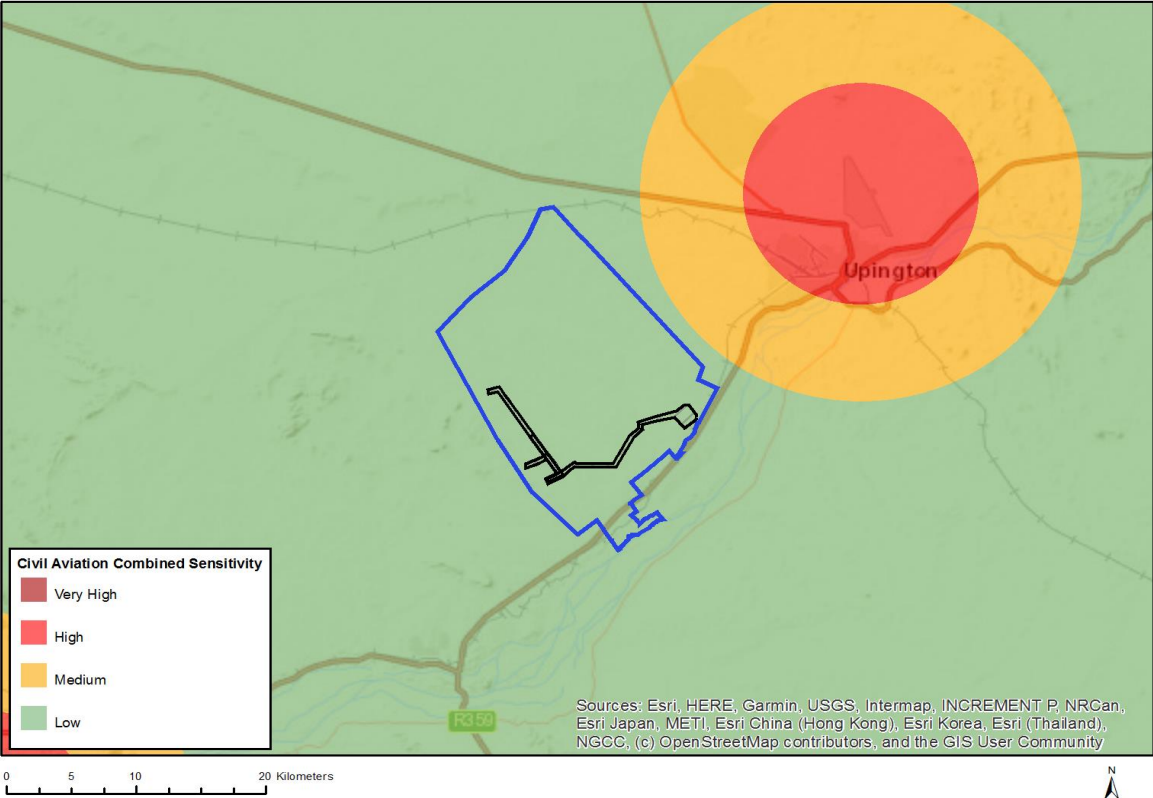


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Mountain or ridge

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

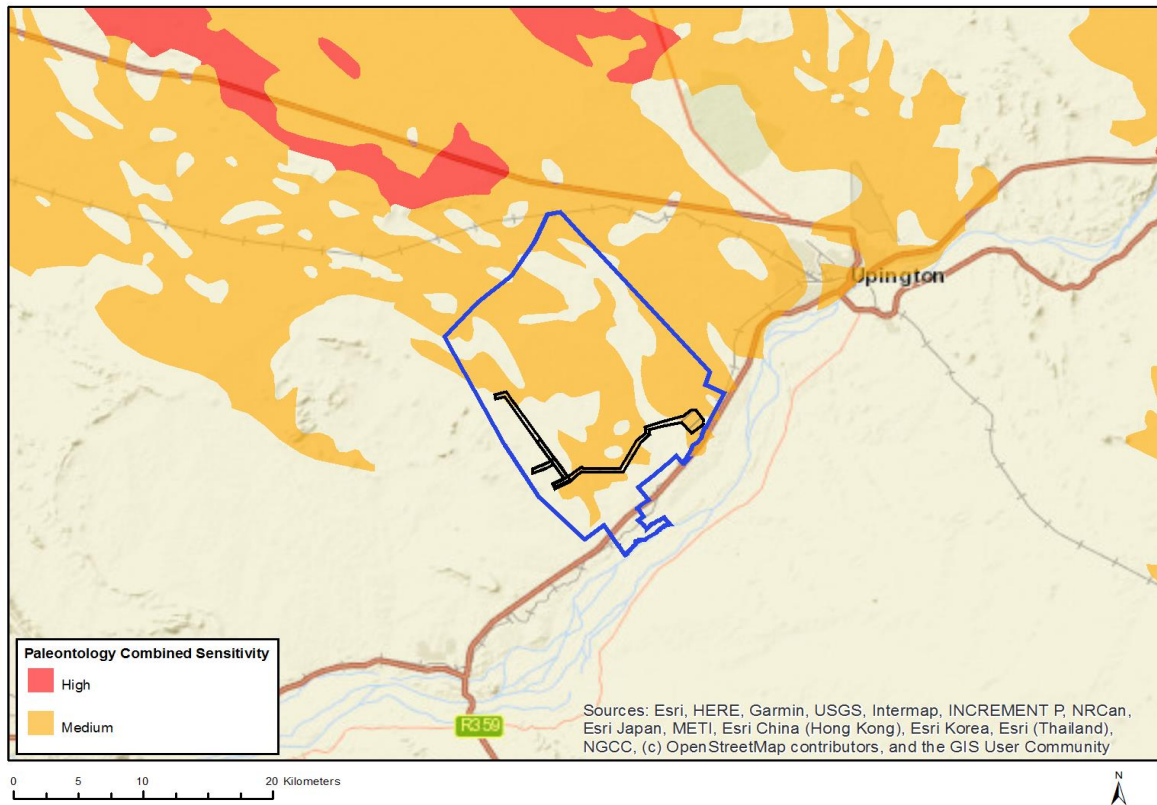


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

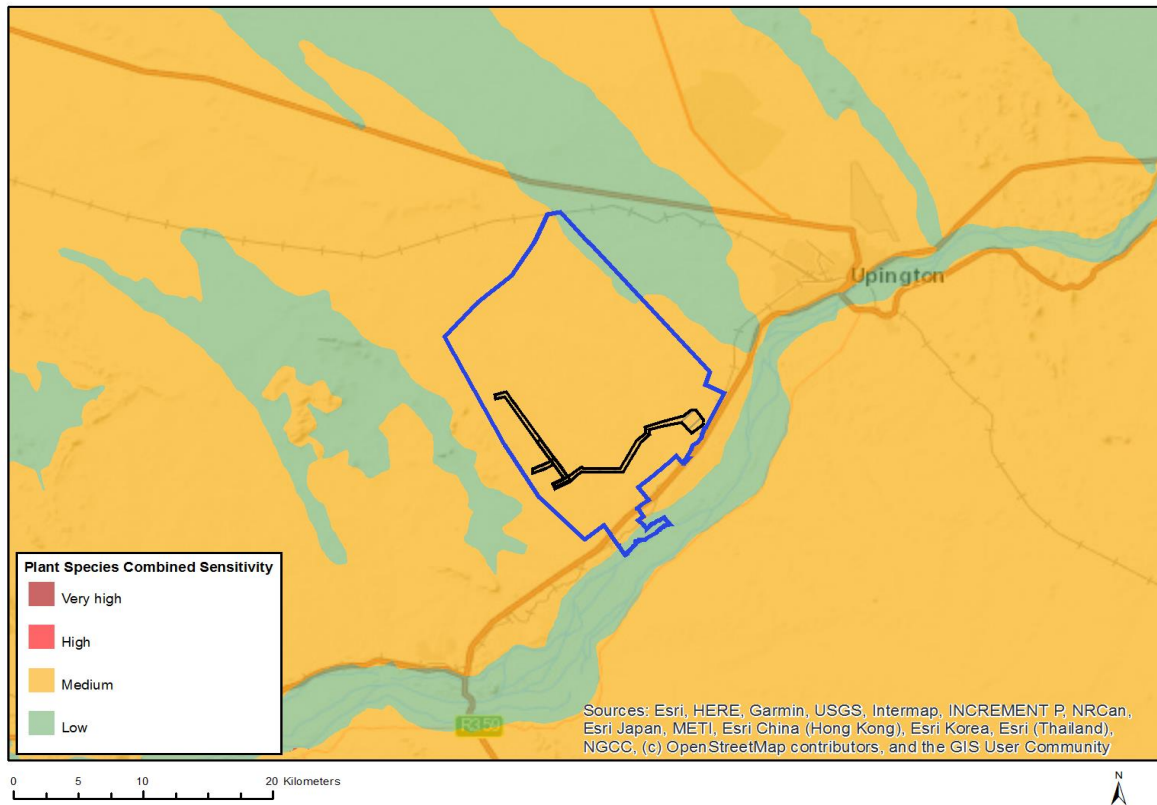


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Rock units with a medium paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY

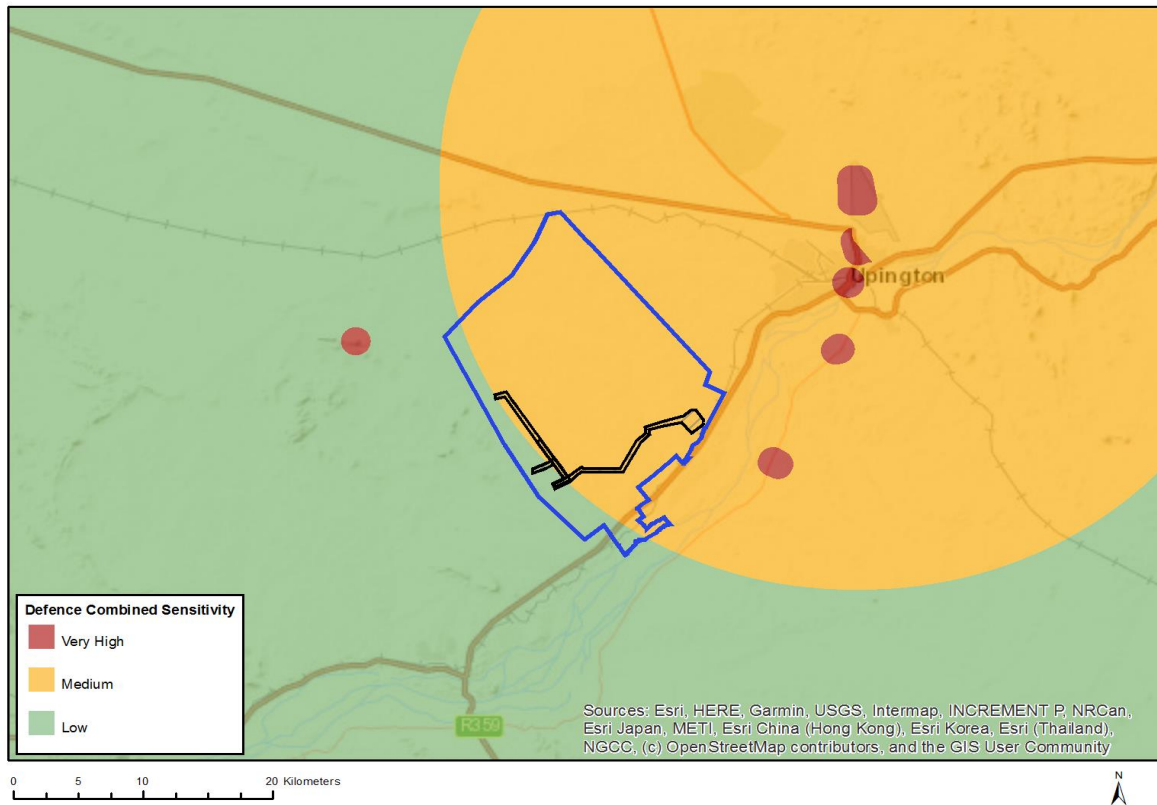


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Sensitive species 44

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

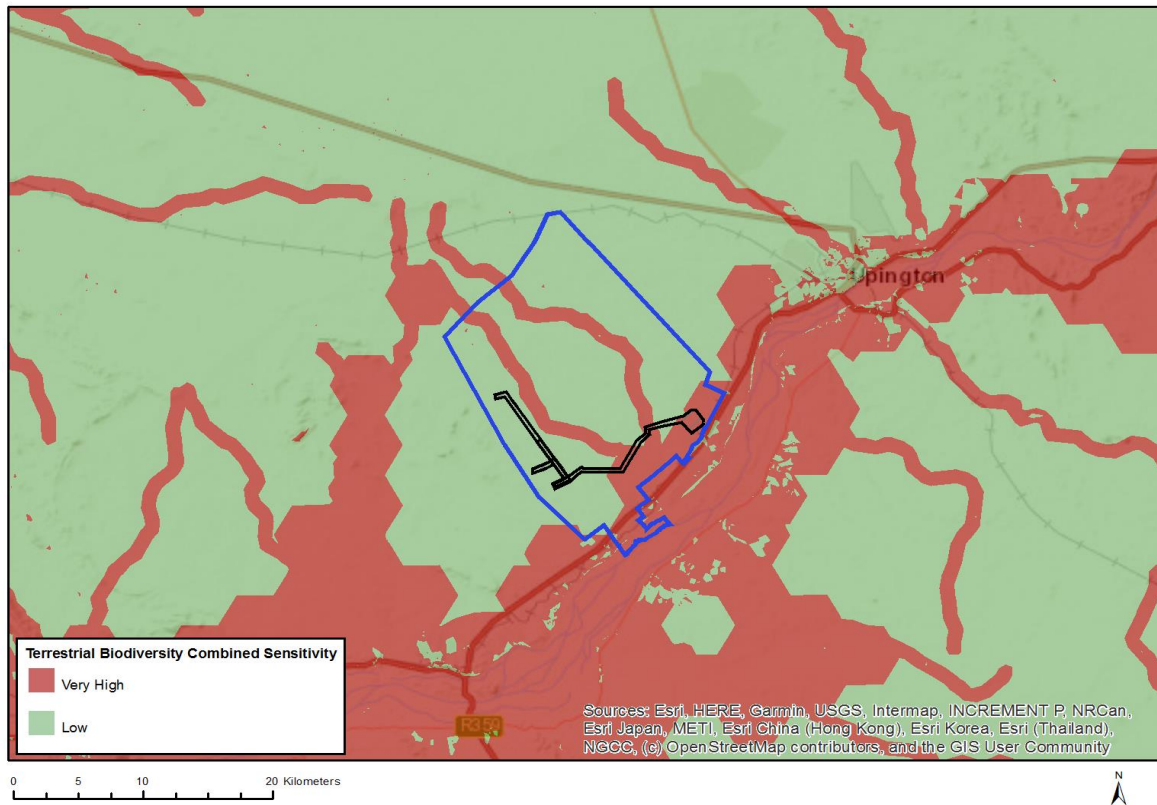


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Medium	Defence Site

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	None
Very High	Ecological Support Area 1
Very High	Critical Biodiversity Area 2