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

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EIA Reference number: TBC

Project name: Klawer WEF 22kV Powerline, Western Cape, South Africa

Project title: Basic Assessment Process

Date screening report generated: 11/03/2021 17:16:24

Applicant: Red Rocket South Africa (Pty) Ltd

Compiler: WSP Environmental (Pty) Ltd

Compiler signature:

Application Category: Any activities within or close to a watercourse





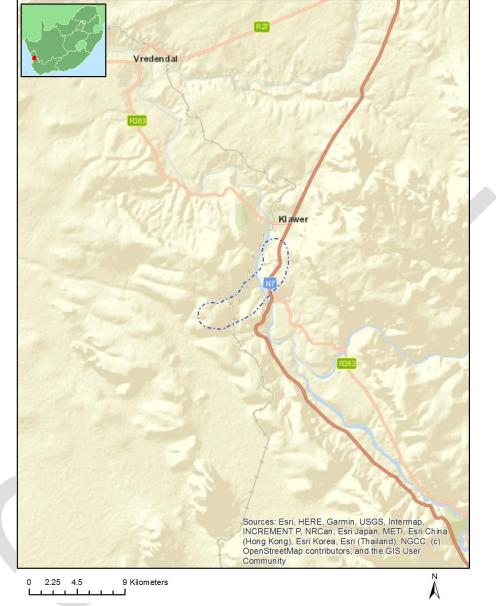
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Proposed Project Location

Orientation map 1: General location



General Orientation: Klawer WEF 22kV Powerline, Western Cape, South Africa

Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf	Portion	Latitude	Longitude	Property
		No			-	Туре
1	KLAWER	159	0	31°47'22.95S	18°37'20.36E	Erven
2	MELKBOOM	384	0	31°53'9.32S	18°38'22.95E	Farm
3		472	0	31°49'31.95S	18°35'30.37E	Farm
4	RIETRYLAAGTE	508	0	31°52'10.09S	18°32'7.81E	Farm
5		306	0	31°50'4.05S	18°34'26.97E	Farm
6	WINDHOEK	449	0	31°45'44.03S	18°39'38.4E	Farm
7	CARLTON HILL	307	0	31°49'19.7S	18°37'31.91E	Farm
8	ROSSOUWS	390	0	31°50'44.03S	18°32'59.48E	Farm
	KRAAL					
9	RIETRYLAAGTE	509	0	31°52'12.39S	18°34'38.76E	Farm
10		306	0	31°49'41.93S	18°36'57.91E	Farm
11		306	0	31°47'54.66S	18°37'16.08E	Farm
12		472	0	31°49'42.45S	18°36'27.03E	Farm
13		306	31	31°47'51.96S	18°37'22.06E	Farm Portion
14		306	104	31°47'38.84S	18°36'50.34E	Farm Portion
15		306	75	31°47'31.35S	18°37'11.19E	Farm Portion
16		306	81	31°50'3.69S	18°35'40.51E	Farm Portion
17		306	0	31°48'13.5S	18°37'54.21E	Farm Portion
18	CARLTON HILL	307	1	31°49'19.56S	18°37'42.92E	Farm Portion
19	CARLTON HILL	307	1	31°49'21.23S	18°37'43.31E	Farm Portion
20	MELKBOOM	384	141	31°50'57.77S	18°36'3.67E	Farm Portion
21	MELKBOOM	384	200	31°49'54.44S	18°37'7.82E	Farm Portion
22		306	100	31°50'11.42S	18°35'18.23E	Farm Portion
23		306	106	31°47'41.57S	18°37'15.81E	Farm Portion
24		306	137	31°47'30.66S	18°37'30.28E	Farm Portion
25		306	0	31°48'29.54S	18°37'26.63E	Farm Portion
26		306	0	31°47'58.75S	18°37'44.41E	Farm Portion
27	CARLTON HILL	307	7	31°48'57.02S	18°37'18.24E	Farm Portion
28		306	13	31°48'14.95S	18°36'57.28E	Farm Portion

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29 306 16 31'47'9.355 18'37'7.76 Farm Portion 30 306 107 31'48'49.355 18'38'12.15E Farm Portion 31 306 146 31'48'49.355 18'38'12.15E Farm Portion 32 306 146 31'48'20.355 18'36'14.49E Farm Portion 33 306 12 31'48'26.035 18'36'51.49E Farm Portion 34 306 12 31'47'56.995 18'36'51.58E Farm Portion 36 306 121 31'47'56.995 18'36'51.58E Farm Portion 37 ARLTON HILL 307 1 31'4'9'1.155 18'36'51.58E Farm Portion 38 CARLTON HILL 307 1 31'4'9'1.275 18'36'3.38E Farm Portion 41 306 22 31'4'7.155 18'36'3.38E Farm Portion 42 306 99 31'4'9'3.345 18'37'1.92E Farm Portion 43 CARLTON HILL 307 6 31'4'9'3.3		r			1	1	
31 306 97 31*48*49.355 18*38*12.15E Farm Portion 32 306 146 31*47*21.445 18*37*0.707 Farm Portion 33 306 151 31*48*26.035 18*37*3.707 Farm Portion 34 306 12 31*47*56.915 18*36*14.49E Farm Portion 36 306 157 31*47*56.915 18*36*1.48E Farm Portion 37 306 121 31*47*56.915 18*37*0.32E Farm Portion 38 CARLTON HILL 307 1 31*49*14.445 18*37*0.32E Farm Portion 39 CARLTON HILL 307 1 31*49*14.445 18*37*0.32E Farm Portion 41 306 22 31*47*0.15 18*37*0.32E Farm Portion 42 306 99 31*07.3.875 18*37*1.22E Farm Portion 43 306 164 31*48*0.095 18*37*1.21E Farm Portion 44 CARLTON HILL 307 9 31*49*3.353 </td <td>29</td> <td></td> <td>306</td> <td>16</td> <td>31°47'50.35S</td> <td>18°37'7.73E</td> <td>Farm Portion</td>	29		306	16	31°47'50.35S	18°37'7.73E	Farm Portion
32 306 146 31*4721.445 18*370.016 Farm Portion 33 306 161 31*480.595 18*375.302 Farm Portion 34 306 12 31*4870.535 18*3654.46E Farm Portion 35 306 72 31*4756.951 18*375.32E Farm Portion 36 306 157 31*4756.951 18*375.32E Farm Portion 37 306 121 31*4911.355 18*3657.32E Farm Portion 38 CARLTON HILL 307 0 31*4911.455 18*36*5.32E Farm Portion 39 CARLTON HILL 307 1 31*4914.445 18*376.33E Farm Portion 41 306 22 31*4747.015 18*374.32E Farm Portion 42 306 164 31*4820.765 18*375.32E Farm Portion 43 306 15 31*4728.425 18*371.21E Farm Portion 44 CARLTON HILL 307 9 31*483.887 18*	30		306	107	31°47'42.15S	18°37'5.76E	Farm Portion
33 306 161 31*48'0.593 18*37'3.707E Farm Portion 34 306 12 31*48'2.6.035 18*36'3.4.49E Farm Portion 35 306 72 31*47'35.695 18*36'3.4.49E Farm Portion 36 306 157 31*47'35.695 18*37'2.5.28E Farm Portion 37 306 121 31*49'1.155 18*36'5.1.58E Farm Portion 38 CARLTON HILL 307 0 31*49'1.155 18*36'4.33E Farm Portion 40 MELKBOOM 384 141 31*6'12.875 18*37'13.34E Farm Portion 41 306 22 31*47'47.01S 18*37'13.34E Farm Portion 42 306 164 31*48'20.755 18*37'15.32E Farm Portion 43 306 164 31*48'3.05 18*37'15.72E Farm Portion 44 CARLTON HILL 307 9 31*48'3.857 18*37'1.797E Farm Portion 45 306 103 31*4	31		306	97	31°48'49.35S	18°38'12.15E	Farm Portion
34 306 12 31*48*26.035 18*36*54.46E Farm Portion 35 306 72 31*475.3695 18*36*54.46E Farm Portion 36 306 157 31*475.6915 18*37*25.28E Farm Portion 37 306 121 31*49*11.455 18*36*57.91E Farm Portion 38 CARLTON HILL 307 1 31*49*11.455 18*36*63.8E Farm Portion 40 MELKBOOM 384 141 31*512.875 18*36*3.32E Farm Portion 41 306 99 31*50*3.875 18*36*3.28E Farm Portion 42 306 99 31*69*3.545 18*37*3.97E Farm Portion 43 306 164 31*49*13.545 18*37*1.97E Farm Portion 44 CARLTON HILL 307 9 31*49*3.875 18*37*1.97E Farm Portion 45 CARLTON HILL 307 9 31*47*3.095 18*37*1.97E Farm Portion 46 306 103	32		306	146	31°47'21.44S	18°37'0.16E	Farm Portion
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36 306 157 31*4756.915 18*37*25.28E Farm Portion 37 306 121 31*49*41.935 18*36*51.58E Farm Portion 38 CARLTON HILL 307 0 31*49*11.155 18*36*51.58E Farm Portion 39 CARLTON HILL 307 1 31*49*14.44S 18*37*6.38E Farm Portion 40 MELKBOOM 384 141 31*51*2.875 18*37*9.33E Farm Portion 41 306 22 31*47*0.15 18*37*9.32E Farm Portion 42 306 99 31*60*3.875 18*37*9.2E Farm Portion 43 ACARLTON HILL 307 6 31*47*19.15.87*19.2E Farm Portion 45 CARLTON HILL 307 9 31*47*8.095 18*37*1.2E Farm Portion 46 306 73 31*47*8.095 18*37*1.2E Farm Portion 47 306 105 31*48*1.095 18*36*1.0E Farm Portion 51 306 102 <td>34</td> <td></td> <td>306</td> <td>12</td> <td>31°48'26.03S</td> <td>18°36'54.46E</td> <td>Farm Portion</td>	34		306	12	31°48'26.03S	18°36'54.46E	Farm Portion
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39 CARLTON HILL 307 1 31*49'14.44S 18*37'6.38E Farm Portion 40 MELKBOOM 384 141 31*12'7.375 18*36'4.33E Farm Portion 41 306 22 31*47'47.015 18*36'1.32E Farm Portion 42 306 99 31*50'3.875 18*36'53.28E Farm Portion 43 306 164 31*48'20.765 18*36'53.28E Farm Portion 44 CARLTON HILL 307 6 31*49'3.875 18*37'1.21E Farm Portion 45 CARLTON HILL 307 9 31*49'3.875 18*37'1.21E Farm Portion 46 306 103 31*48'3.887 18*36'28.44E Farm Portion 47 306 12 31*48'3.3095 18*36'44.45E Farm Portion 50 306 32 31*48'3.3095 18*36'44.5E Farm Portion 51 306 12 31*48'4.195 18*36'4.45E Farm Portion 52 CARLTON HILL	37		306	121	31°49'41.93S	18°36'57.91E	Farm Portion
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	73			0			
74 KIETKYLAAGTE 509 0 31°52′12.395 18°34′38.76E Farm Portion	74	RIETRYLAAGTE	509	0	31°52'12.39S	18°34'38.76E	Farm Portion

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

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.

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	Distance from proposed
			application	area (km)
1	12/12/20/2677	Solar PV	Approved	29.2
2	12/12/20/2571	Solar PV	Approved	21.8
3	14/12/16/3/3/1/1049	Solar PV	Approved	18.7
4	12/12/20/2123	Solar PV	Approved	21.8

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

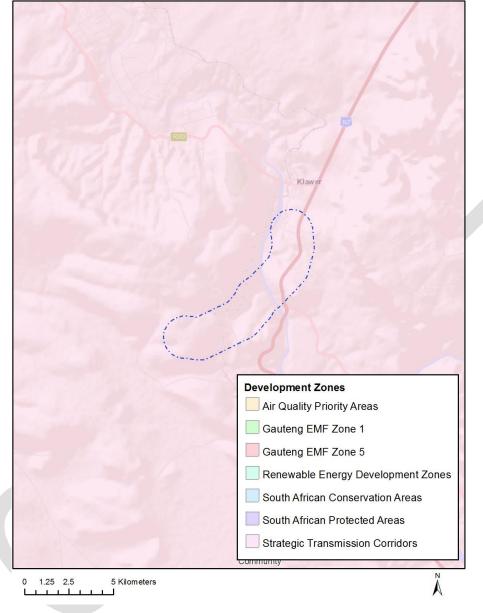
The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is: **Any activities within or close to a watercourse**.

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 prohibitio n	Implication
Strategic Transmission Corridor- Western corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/G N 113 16 February 2018.pdf

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



Project Location: Klawer WEF 22kV Powerline, Western Cape, South Africa

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	Х			
Animal Species Theme		Х		
Dage 9 of 20		isclaimar applias		

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

Specialist assessments identified

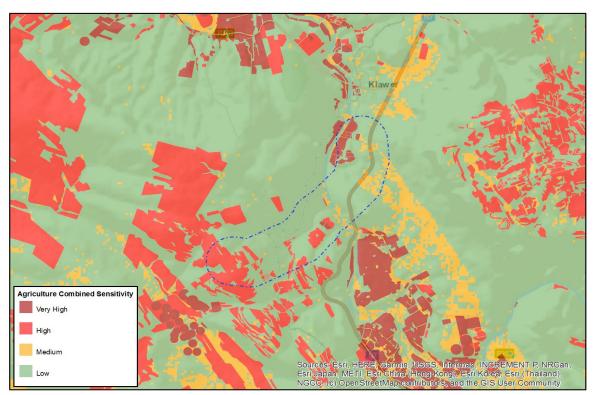
Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment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

Ν	Special	Assessment Protocol
	ist	
0		
	assess	
1	ment	
1	Landsca pe/Visua	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	l Impact	/Gazetted General Requirement Assessment Protocols.pdf
	Assessm	
	ent	
2	Archaeol	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	ogical	/Gazetted General Requirement Assessment Protocols.pdf
	and Cultural	
	Heritage	
	Impact	
	Assessm	
2	ent	
3	Palaeont	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	ology Impact	/Gazetted General Requirement Assessment Protocols.pdf
	Assessm	
	ent	
4	Terrestri	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	al	/Gazetted Terrestrial Biodiversity Assessment Protocols.pdf
	Biodiver sity	
	Impact	
	Assessm	
	ent	
5	Aquatic	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Biodiver sity	/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
	Impact	
	Assessm	
	ent	
6	Hydrolo	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	gy	/Gazetted General Requirement Assessment Protocols.pdf
	Assessm ent	
7	Socio-	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Economi	/Gazetted General Requirement Assessment Protocols.pdf
	С	

	Assessm	
	ent	
8	Plant Species Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_Plant_Species_Assessment_Protocols.pdf
9	Animal Species Assessm ent	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.



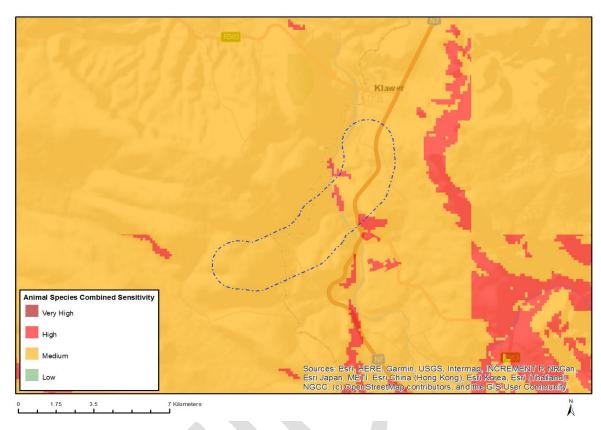
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

0 1.75 3.5 7 Kilometers

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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
х			

Sensitivity	Feature(s)
High	Strip Field Cultivation;Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very
	low/05. Low
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;01. Very low/02. Very low/03.
	Low-Very low/04. Low-Very low/05. Low
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low-
	Moderate/08. Moderate
High	Strip Field Cultivation; Land capability; 06. Low-Moderate/07. Low-Moderate/08. Moderate
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
Very High	Viticulture;Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
Very High	Viticulture;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

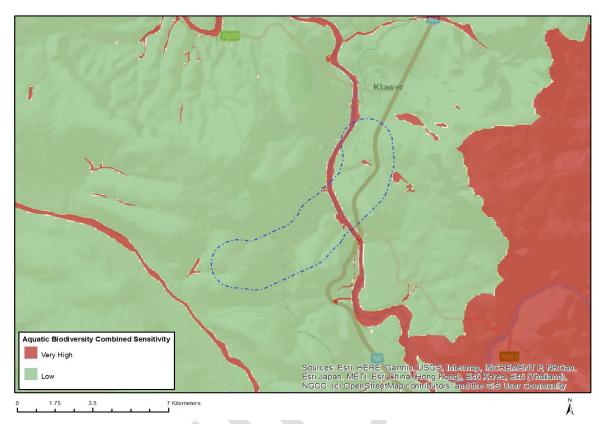


MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY

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 <u>eiadatarequests@sanbi.org.za</u> 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
	Х		

Sensitivity	Feature(s)	
High	Aves-Aquila verreauxii	
Medium	Invertebrate-Bullacris obliqua	
Medium	Invertebrate-Brinckiella aptera	
Medium	Invertebrate-Brinckiella mauerbergerorum	
Medium	Invertebrate-Pachysoma glentoni	
Medium	Sensitive species 4	
Medium	Aves-Neotis ludwigii	
Medium	Aves-Sagittarius serpentarius	
Medium	Aves-Circus maurus	

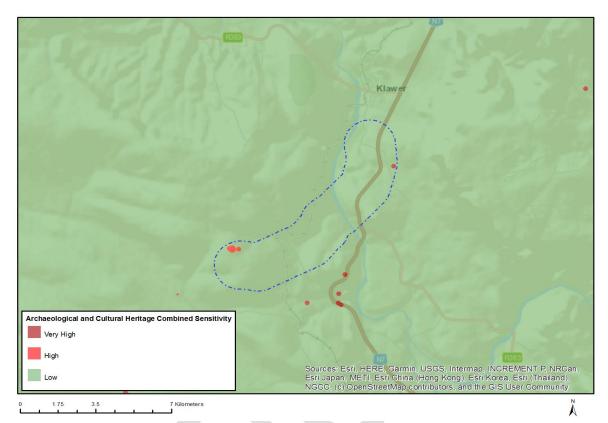


MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Aquatic CBAs
Very High	Wetlands and Estuaries

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
х			

Sensitivity	Feature(s)
High	Within 150m of a Grade Illa Heritage site
High	Within 100m of a Grade IIIb Heritage site
Low	Low sensitivity
Very High	Within 100m of an Ungraded Heritage site

CVI Aviation Combined Sensitivity High High High Surces: Esti, HERE Gamma, USGS, Internang, INGREMENT P, NRCan, Esti, Japan, METH, Esti, Ohma, Mong, Kora, Kars, Kora, Kars, Japan, METH, Esti, Ohma, Mong, Kora, Kars, Kora, Kars, Japan, METH, Esti, Ohma, Mong, Kora, Kars, Kora, Kars, Japan, METH, Esti, Ohma, Mong, Kora, Kars, Kora, Kars, Japan, METH, Esti, Ohma, Mong, Kora, Kars, Kora, Kars, Japan, METH, Esti, Ohma, Mong, Kora, Kars, Kora, Kars, Japan, METH, Esti, Ohma, Mong, Kora, Kars, Kora, Kars, Japan, Meth, Kars, K

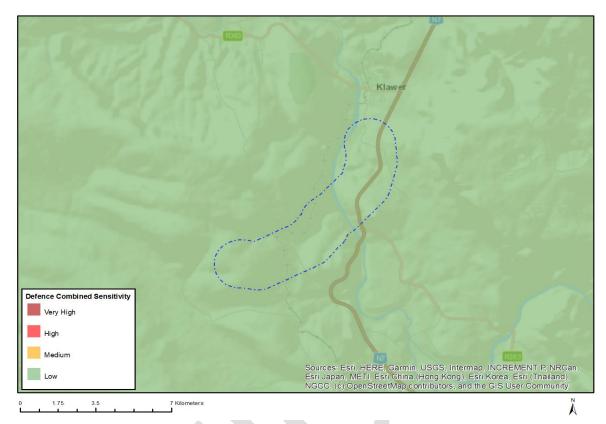
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity Features:

		Ζ.
Sensitivity	Feature(s)	
Low	Low sensitivity	
		-

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity Features:

Sensitivity	Feature(s)	
Low	Low Sensitivity	

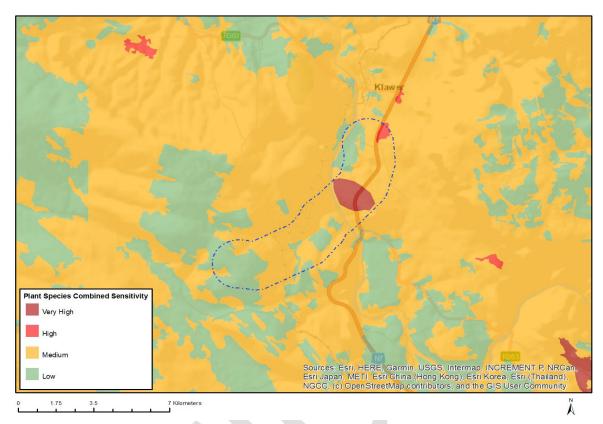
Pleonology Combined Sensitivity Very High High Low Duty of the circle State of the

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Х		

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



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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

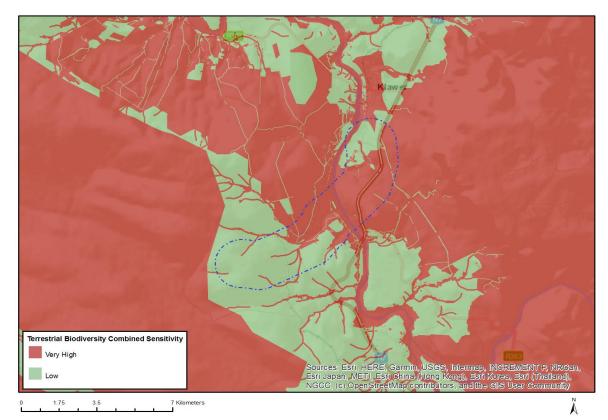
Sensitivity Features:

Sensitivity	Feature(s)	
High	Walleria gracilis	
Low	Low Sensitivity	
Medium	Leipoldtia klaverensis	
Medium	Sensitive species 325	
Medium	Ruschia bipapillata	
Medium	Ruschia incurvata	
Medium	Ruschia lapidicola	
Medium	Cephalophyllum pulchrum	
Medium	Psoralea angustifolia	
Medium	Aspalathus cuspidata	
Medium	Hyaenanche globosa	
Medium	Leucadendron procerum	
Medium	Serruria millefolia	
Medium	Dischisma squarrosum	
Medium	Manulea ramulosa	

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Medium	Diascia ellaphieae
Medium	Sensitive species 392
Medium	Sensitive species 36
Medium	Sensitive species 222
Medium	Sensitive species 869
Medium	Sensitive species 789
Medium	Sensitive species 302
Medium	Sensitive species 26
Medium	Ficinia quartzicola
Medium	Restio longiaristatus
Medium	Sensitive species 309
Medium	Athanasia leptocephala
Medium	Athanasia sertulifera
Medium	Agathosma elata
Medium	Adromischus maximus
Medium	Walleria gracilis
Medium	Lampranthus glaucus
Medium	Aspalathus obtusata
Medium	Leucospermum praemorsum
Medium	Leucospermum rodolentum
Medium	Protea scolymocephala
Medium	Ophioglossum bergianum
Medium	Oxalis dines
Medium	Adenogramma teretifolia
Medium	Sensitive species 1107
Medium	Heliophila elata
Medium	Leucoptera subcarnosa
Medium	Muraltia obovata
Medium	Caesia sabulosa
Very High	Steirodiscus linearilobus

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Ecological Support Area 2
Very High	Ecological Support Area 1
Very High	Critical Biodiversity Area 2
Very High	Critical Biodiversity Area 1
Very High	Vulnerable ecosystem