

Offset Assessment Guide (Strategen JBS&G 2020)



Offsets Assessment Guide

For use in determining offsets under the Environment Protection and Biodiversity Conservation Act 1999 2 October 2012

This guide relies on Macros being enabled in your browser.

Matter of National Environmental Signific	ance
Name	FCT 20c
EPBC Act status	Critically Endangered
Annual probability of extinction Based on IUCN category definitions	6.8%

Key to Cell Colours
User input required
Drop-down list
Calculated output
Not applicable to attribute

			Impact calcu	lator			
	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imj	pact	Units	Information source
			Ecological c	ommunities			
				Area	0.2	Hectares	Biological surveys
	Area of community	Yes	TEC FCT 20c	Quality	5	Scale 0-10	Based on 0.15 ha being Degraded condition and 0.05 ha being in Good
				Total quantum of impact	0.10	Adjusted hectares	condition
			Threatened sp	oecies habitat			
				Area			
ator	Area of habitat	No		Quality			
Impact calculator				Total quantum of impact			
Imp	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imj	pact	Units	Information source
	Number of features e.g. Nest hollows, habitat trees	No					
	Condition of habitat Change in habitat condition, but no change in extent	No					
			Threatene	ed species			
	Birth rate e.g. Change in nest success	No					
	Mortality rate e.g Change in number of road kills per year	No					
	Number of individuals e.g. Individual plants/animals	No					

										Offset c	alculato)r										
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time hori: (years)		Start area and quality offset		a and thout	ind Future area and		Raw gain	Confidence in result (%)	Adjusted gain	Net prese (adjusted l		% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source	
	Ecological Communities																					
	Area of community	Yes	0.10	Adjusted hectares	Onsite retention of 0.54 ha	Risk-related time horizon (max. 20 years)	20	Start area (hectares)	0.54	Risk of loss (%) without offset Future area without offset (adjusted hectares)	10% 0.5	Risk of loss (%) with offset Future area with offset (adjusted hectares)	5% 0.5	0.03	90%	0.02	0.01	0.17	168.38%	Yes		
						Time until ecological benefit	1	Start quality (scale of 0- 10)	7	Future quality without offset (scale of 0-10)	3	Future quality with offset (scale of 0-10)	7	4.00	90%	3.60	3.37					
										Threate	ned spec	ies habitat										
lator	Area of habitat	No				Time over which loss is averted (max. 20 years)		Start area (hectares)		Risk of loss (%) without offset Future area without offset (adjusted hectares)	0.0	Risk of loss (%) with offset Future area with offset (adjusted hectares)	0.0									
Offset calculator						Time until ecological benefit		Start quality (scale of 0- 10)		Future quality without offset (scale of 0-10)		Future quality with offset (scale of 0-10)										
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horiz (years)		Start value		Future value without offset		Future val offse		Raw gain	Confidence in result (%)	Adjusted gain	Net prese	nt value	% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
	Number of features e.g. Nest hollows, habitat trees	No																				
	Condition of habitat Change in habitat condition, but no change in extent	No																				
										Thr	eatened s	pecies										
	Birth rate e.g. Change in nest success	No																				
	Mortality rate e.g Change in number of road kills per year	No																				
	Number of individuals e.g. Individual plants/animals	No																				

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Impact calculator															
	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imj	pact	Units	Information source								
			Ecological c	ommunities											
				Area	0.2	Hectares									
	Area of community	Yes	TEC FCT 20c	Quality	5	Scale 0-10	Biological surveys Based on 0.15 ha being Degraded condition and 0.05 ha being in Good								
				Total quantum of impact	0.10	Adjusted hectares	condition								
	Threatened species habitat														
				Area	55.3										
ttor	Area of habitat	no		Quality	5		Biological survey								
Impact calculator				Total quantum of impact	27.65										
Imp	Protected matter attributes	Attribute relevant to case?	Description	Quantum of im	pact	Units	Information source								
	Number of features e.g. Nest hollows, habitat trees	No													
	Condition of habitat Change in habitat condition, but no change in extent	No													
			Threatene	ed species											
	Birth rate e.g. Change in nest success	No													
	Mortality rate e.g Change in number of road kills per year	No													
	Number of individuals e.g. Individual plants/animals	No													

										Offset c	alculato	or										
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horiz (years)		n Start area and quality		Future area and quality without offset		Future area and quality with offset		Raw gain	Confidence in result (%)	Adjusted gain	Net prese (adjusted l		% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
		Ecological Communities																				
	Area of community	Yes	0.10	Adjusted hectares	Revegetation of 0.44 ha	Risk-related time horizon (max. 20 years)	20	Start area (hectares)	0.44	Risk of loss (%) without offset Future area without offset (adjusted hectares)	0.4	Risk of loss (%) with offset Future area with offset (adjusted hectares)	5% 0.4	0.02	90%	0.02	0.01	0.10	96.02%	Yes		
						Time until ecological benefit	10	Start quality (scale of 0- 10)	5	Future quality without offset (scale of 0-10)	2	Future quality with offset (scale of 0-10)	7	5.00	90%	4.50	2.33					
	Threatened species habitat																					
	Area of habitat					Time over		Start area (hectares)	31.1	Risk of loss (%) without offset	40%	Risk of loss (%) with offset	10%									
ator		No	27.65			which loss is averted (max. 20 years)	20			Future area without offset (adjusted hectares)	18.7	Future area with offset (adjusted hectares)	28.0		80%							
Offset calculator						Time until ecological benefit	10	Start quality (scale of 0- 10)	3	Future quality without offset (scale of 0-10)	2	Future quality with offset (scale of 0-10)	4		80%							
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time hori: (years)		Start value		Future value without offset		Future val offse		Raw gain	Confidence in result (%)	Adjusted gain	Net prese	nt value	% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
	Number of features e.g. Nest hollows, habitat trees	No																				
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