

Appendix E EPBC Offset Calculator

Offsets Assessment Guide

For use in determining offsets under the Environment Protection and Biodiversity Conservation Act 1999
2 October 2012
This guide relies on Macro being enabled in your browser.

Matter of National Environmental Significance	
Name	Chuditch
EPBC Act status	Vulnerable
Annual probability of extinction based on IUCN category definitions	0.2%

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

Impact calculator					
Protected matter attributes	Attribute relevant to case?	Description	Quantum of impact	Units	Information source
<i>Ecological communities</i>					
Area of community <input type="button" value="Clear row"/>	No		Area		
			Quality		
			Total quantum of impact	0.00	
<i>Threatened species habitat</i>					
Area of habitat <input type="button" value="Clear row"/>	Yes		Area	298	Hectares
			Quality	6	Scale 0-10
			Total quantum of impact	178.80	Adjusted hectares

Offset calculator														
Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (years)	Start area and quality	Future area and quality without offset	Future area and quality with offset	Raw gain	Confidence in result (%)	Adjusted gain	Net present value (adjusted hectares)	% of impact offset	Minimum (90%) direct offset required
<i>Ecological Communities</i>														
Area of community	No				Risk-related time horizon (max. 20 years)	Start area (hectares)	Risk of loss (%) without offset	Risk of loss (%) with offset	0.0	0.0				
					Time until ecological benefit	Start quality (scale of 0-10)	Future quality without offset	Future quality with offset						
<i>Threatened species habitat</i>														
Area of habitat	Yes	178.80	Adjusted hectares	364	Time over which loss is avoided (max. 20 years)	Start area (hectares)	Risk of loss (%) without offset	Risk of loss (%) with offset	851.6	364.0	12.44	95%	11.92	11.36
					Time until ecological benefit	Start quality (scale of 0-10)	Future quality without offset	Future quality with offset	3.00	75%	2.25	2.16	192.04	107.41%

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Matter of National Environmental Significance	
Name	Malleefowl
EPBC Act status	Vulnerable
Assess probability of extinction <small>Based on IUCN category definitions</small>	0.22

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

Impact calculator						
Protected matter attributes	Attribute relevant to case?	Description	Quantum of impact	Units	Information source	
<i>Ecological communities</i>						
Area of community <input type="button" value="Clear row"/>	No		Area			
			Quality			
			Total quantum of impact	0.00		
<i>Threatened species habitat</i>						
Area of habitat <input type="button" value="Clear row"/>	Yes		Area	238	Hectares	
			Quality	6	Scale 0-10	
			Total quantum of impact	1428	Adjusted hectares	

Offset calculator															
Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (years)	Start area and quality	Future area and quality without offset	Future area and quality with offset	Raw gain	Confidence in result (%)	Adjusted gain	Net present value (adjusted hectares)	% of impact offset	Minimum (90%) direct offset requirement	
<i>Ecological Communities</i>															
Area of community	No				Risk-related time horizon (max. 20 years)	Start area (hectares)	Risk of loss (%) without offset Future area without offset (adjusted hectares)	Risk of loss (%) with offset Future area with offset (adjusted hectares)	0.0						
					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)							
<i>Threatened species habitat</i>															
Area of habitat	Yes	178.80	Adjusted hectares	864	Time over which loss is averted (max. 20 years)	Start area (hectares)	Risk of loss (%) without offset Future area without offset (adjusted hectares)	Risk of loss (%) with offset Future area with offset (adjusted hectares)	12.44	35%	11.82	11.36	220.68	123.42%	Yes
					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)	4.00	65%	2.60	2.50			