PLEASE ENABLE MACROS FOR THIS SPREADSHEET

Produced by:

The Department of Water and Environmental Regulation (DWER) in consultation with stakeholder working groups

Purpose:

Use the WA Envirionmental Offsets calculator in conjunction with the *Environmental offsets metric:*Quantifying environmental offsets in Western Australia guideline. Together, they form a supplement to section 4 of the WA Environmental Offsets Guidelines and provide information to help decision-makers, government officers, industry and the community to quantify environmental offsets.

Data currency:

The correct application of the WA Environmental Offsets Calculator relies on access to current datasets (such as vegetation extent and land tenure).

Process for using the WA Environmental Offsets Calculator				
Step	Worksheet	Component		
Step 1: Determining conservation	Step1_ConservationSignificance	Conservation significance determination		
significance	Step1_conservationsignificance	Combined area/feature		
		Part A: Significant impact calculation		
		Separate area or feature calculations		
Step 2: Calculating significant	Stan 2 Significant Basidual Impact	Part B: Rehabilitation credit calculation		
residual impact	Step2_SignificantResidualImpact	Separate area or feature calculations		
		Part C: Significant residual impact calculation		
		Separate area or feature calculations		
Step 3: Calculating offsets	Step3_Offsets	Offsets calculation		
		Separate area or feature calculations		
Rationale for scores used in the Offsets Calculator	Rationale	AII		

Step 1: Determining conservation significance

Key:

Data to be entered

Drop-down selection

Automatically-generated scores

(Or, if appropriate, manual data entry permitted)

Area / feature (Impact site)

	Conservation significance determination for the environmental value impacted					
ance	Description	SCP3a TEC				
significa	Type of environmental value	Ecological community				
servation	Conservation significance of environmental value	Threatened ecological community - critically endangered				
Cons	Conservation significance score	6.8%				

Step 2: Calculating significant residual impact

Key:

Data to be entered

Drop-down selection

Automatically-generated scores

Environmental value (step 1)	SCP3a TEC
---------------------------------	-----------

Area (impact site)

Part A: Significant impact calculation Area				
Significant impact	Description	Quantum of impact		
	Clearing of 0.008 ha of SCP3a	Significant impact (hectares)	0.01	
Significal		Quality (scale)	6.00	
S		Total quantum of impact	0.00	

		Part B: Rehabilitation of Area (ons		ılation	
Ħ	Description	Proposed rehabilitation (area in hectares)		Time until ecological benefit (years)	
tion Crec		Current quality of rehabilitation site (scale)		Confidence in rehabilitation result (%)	
ehabilitat		Future quality WITHOUT rehabilitation (scale)		Rehabilitation credit	0.00
Ŗ		Future quality WITH rehabilitation (scale)		Renabilitation credit	0.00

P	Part C: Significant residual impact calculation <i>Area</i>					
pact	Total quantum of impact	0.00				
sidual im	Rehabilitation credit	0.00				
Significant residual impact	Significant residual impact	0.00				

Step 3: Calculating offsets

Key:
Data to be entered
Drop-down selection
Automatically-generated scores

		Significant impact (step 2, part A)	0.01
Environmental value (step 1)	I SCP3a IEC	Rehabilitation credit (step 2, part B)	0.00
		Significant residual impact (step 2, part C)	0.00

Area (offset site)

	Offset calculation Area						
	Description	Proposed offset (area in hectares)	0.13	Duration of offset implementation (maximum 20 years)	20.00	Offset value	0.00
_		Current quality of offset site (scale)	5.00	Time until offset site secured (years)	0.00	Offset value	101.0%
Offsets calculation	Proposed rehabilitation actions in Brickwood Reserve	Future quality WITHOUT offset (scale)	5.00	Risk of future loss WITHOUT offset (%)	10.0%		
		Future quality WITH offset (scale)	6.00	Risk of future loss WITH offset (%)	10.0%		
J		Time until ecological benefit (years)	10.00				
		Confidence in offset result (%)	80.0%			OFFSET ADEQUATE?	YES

Rationale for scores used in the offsets calculator

Environmental value to be offset		
Calculation	Score (Area)	Rationale
Conservation significance	Score (Area)	Nationale
	SCP3a TEC	The proposed clearing will impact on SCD2s
Description Transaction mental value		The proposed clearing will impact on SCP3a
Type of environmental value	Ecological community	SCP3a is a state and federally listed threatened ecological community
Conservation significance of environmental	Threatened ecological community - critically	SCP3a is listed as a critically endangered ecological community under the
value	endangered	Biodiversity Conservation Act 2016
Landscape-level value impacted	yes/no	Yes
Significant impact	yourno	
Description	Cleaning or 0.006 ha or	Native vegetation that is representative of SCP3a
Description	SCB35	Native vegetation that is representative of SCF 3a
Significant impact (hectares) / Type of feature	0.01	Extent of proposed impact to SCP3a 0.008 hectares
Quality (scale) / Number	6.00	The recorded occurrence of SCP3a within the application area is in a very go condition. Noting this, and the site context of the application area, a moderating high quality value has been attributed.
Rehabilitation credit		
Description	0	
Proposed rehabilitation (area in hectares)	0.00	
Current quality of rehabilitation site / Start	0.00	
number (of type of feature)	0.00	
, , ,		
Future quality WITHOUT rehabilitation (scale)	0.00	
/ Future number WITHOUT rehabilitation	0.00	
Future quality WITH rehabilitation (scale) /		
Future number WITH rehabilitation	0.00	
	0.00	
Time until ecological benefit (years)	0.00	
Confidence in rehabilitation result (%)	0	
Offset		
Description	Proposed rehabilitation actions in Brickwood Reserve	An offset involving rehabilitation actions within Brickwood Reserve
Proposed offset (area in hectares)	0.13	Rehabilitation actions to improve 0.13 hectares of SCP3a is required to counterbalance 100% of the significant residual impact to this community
Current quality of offset site / Start number (of type of feature)	5.00	The area of SCP3a proposed for rehabilitation ranges in condition from degree to very good, with similar site context to the application area.
Future quality WITHOUT offset (scale) /	5.00	It is presumed that the offset area would remain of similar quality without spe
Future number WITHOUT offset	5.00	improvement measures.
Future quality WITH offset (scale) / Future number WITH offset	6.00	The applicant has committed to developing a Project Rehabilitation Plan whi will set out weed control and infill planting amongst other rehabilitation action accordance with completion criteria. Subject to the required Project Rehabilitation Plan, it is expected that a small improvement to the quality of the area continus SCP3a could be achieved. The Project Rehabilitation Plan is subject to appropriate the project Rehabilitation Plan white the project Rehabilitation Plan white project Rehabilitation Plan is subject to approximate the project Rehabilitation Plan is subject to the project Rehabilitation Plan is subject to approximate the project Rehabilitation Plan is subject to the project Rehabilitation Plan is su
Time until ecological benefit (years)	10.00	The benefits of weed control, fencing and infill planting amongst other rehabilitation actions are expected to provide benefit within 10 years, which has also considered the expected delay in commencement of rehabilitation.
Confidence in offset result (%)	0.8	There is a high level of confidence that a small improvement could be delive to a 0.13 hectare occurrence of SCP3a within Brickwood Reserve, in accordance with a Project Rehabilitation Plan.
Duration of offset implementation (maximum 20 years)	20.00	The offset area will occur within a portion of Brickwood Reserve that is subjet a Shire of Serpentine Jarrahdale Management Plan where it has been designable as a conservation area and is expected to be managed as such long into the future.
Time until offset site secured (years)	0.00	No change to the purpose or vesting of Brickwood Reserve is proposed.
Risk of future loss WITHOUT offset (%)	10.0%	Brickwood Reserve is zoned for the purpose of recreation, however those are mapped as SCP3a have been designated as 'high conservation zone', 'conservation zone' or 'vegetation management zone' within the 'Briggs Park Brickwood Reserve Management Plan, 2016-2026', as such it is considered there is a low risk of loss.
Risk of future loss WITH offset (%)	10.0%	There is no proposed change in the management purpose or vesting of the osite.
Offset ratio (Conservation area only)	N/A	