Appendix N

Environmental Offsets Metric

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	
Description	Muchea limestone TEC
Type of environmental value	Ecological community
Conservation significance of environmental value	Threatened ecological community - endangered
Conservation significance score	1.2%

(left side vertical label: Conservation significance)

Please select *area* or *feature* for the calculations	Area

Step 2: Calculating significant residual impact

Key:

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

Environmental value (step 1)	Muchea limestone TEC

Area **(impact site)**

Part A: Significant impact calculation *Area*		
Description	**Quantum of impact**	
Clearing	**Significant impact (hectares)**	1.00
	Quality (scale)	5.00
	Total quantum of impact	0.50

(Left vertical label: Significant impact)

Part B: Rehabilitation credit calculation *Area* (onsite)					
Description	**Proposed rehabilitation (area in hectares)**		**Time until ecological benefit (years)**		
	Current quality of rehabilitation site (scale)		**Confidence in rehabilitation result (%)**		
	Future quality WITHOUT rehabilitation (scale)		**Rehabilitation credit**	0.00	
	Future quality WITH rehabilitation (scale)				

(Left vertical label: Rehabilitation Credit)

Part C: Significant residual impact calculation *Area*	
Total quantum of impact	0.50
Rehabilitation credit	0.00
Significant residual impact	0.50

(Left vertical label: Significant residual impact)

WA Environmental Offsets Calculator

Step 3: Calculating offsets

Environmental value (step 1)	Muchea limestone TEC	Significant impact (step 2, part A)	1.00
		Rehabilitation credit (step 2, part B)	0.00
		Significant residual impact (step 2, part C)	0.50

Area (offset site)

Offset calculation *Area*							
Offsets calculation	**Description**	**Proposed offset (area in hectares)**	1.15	**Duration of offset implementation (maximum 20 years)**	20.00	**Offset value**	0.50
	Revegetation and rehabilitation	**Current quality of offset site (scale)**	0.00	**Time until offset site secured (years)**	5.00		100.0%
		Future quality WITHOUT offset (scale)	0.00	**Risk of future loss WITHOUT offset (%)**	0.0%		
		Future quality WITH offset (scale)	7.00	**Risk of future loss WITH offset (%)**	0.0%		
		Time until ecological benefit (years)	10.00				
		Confidence in offset result (%)	70.0%			**OFFSET ADEQUATE?**	**YES**

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	
Description	Grevillea thelemanniana
Type of environmental value	Species (flora/fauna)
Conservation significance of environmental value	Rare/threatened species - critically endangered
Conservation significance score	6.8%

Please select *area* or *feature* for the calculations	Feature

Step 2: Calculating significant residual impact

Key:

🟨	Data to be entered
🟧	Drop-down selection
⬜	Automatically-generated scores

Environmental value (step 1)	Grevillea thelemanniana

(SCROLL DOWN FOR FEATURE CALCULATION)

Feature (impact site)

Part A: Significant impact calculation **Feature**		
Description	**Quantum of impact**	
	Type of feature	**Number**
Clearing of significant flora within road reserves to enable road widening/upgrades	Grevillea thelemanniana	206.00
	Total quantum of impact	206.00

Significant impact (vertical label)

Part B: Rehabilitation credit calculation **Feature** (onsite)				
Description	**Start number (of type of feature)**		**Time until ecological benefit (years)**	
	Future number WITHOUT rehabilitation		**Confidence in rehabilitation result (%)**	
	Future number WITH rehabilitation		**Rehabilitation credit**	0.00

Rehabilitation credit (vertical label)

Part C: Significant residual impact calculation *Feature*	
Total quantum of impact	206.00
Rehabilitation credit	0.00
Significant residual impact	206.00

Significant residual impact (vertical label)

WA Environmental Offsets Calculator

Step 3: Calculating offsets

Key:

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

Environmental value (step 1)	Grevillea thelemanniana	Significant impact (step 2, part A)	206.00
		Rehabilitation credit (step 2, part B)	0.00
		Significant residual impact (step 2, part C)	206.00

(SCROLL DOWN FOR FEATURE CALCULATION)

Feature **(offset site)**

		Offset calculation *Feature*					
Offsets calculation	**Description**	Start number (of type of feature)	0.00	**Time until ecological benefit (years)**	5.00	**Offset value**	206.00
	Revegetation planting	**Future number WITHOUT offset**	0.00	**Confidence in offset result (%)**	70.0%		100.0%
		Future number WITH offset	408.91				
						OFFSET ADEQUATE?	**YES**

Step 1: Determining conservation significance

Key:

(yellow)	**Data to be entered**
(orange)	**Drop-down selection**
(grey)	**Automatically-generated scores**

(Or, if appropriate, manual data entry permitted)

Area / feature **(Impact site)**

<table>
<tr><td colspan="3">Conservation significance determination
for the environmental value impacted</td></tr>
<tr><td rowspan="4">Conservation significance</td><td>Description</td><td>CCW</td></tr>
<tr><td>Type of environmental value</td><td>Wetland/watercourse</td></tr>
<tr><td>Conservation significance of environmental value</td><td>A category or type of wetland or watercourse for which an offset is required</td></tr>
<tr><td>Conservation significance score</td><td>0.1%</td></tr>
</table>

Please select *area* or *feature* for the calculations	**Area**

Step 2: Calculating significant residual impact

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

Environmental value (step 1)	CCW

Area (impact site)

Part A: Significant impact calculation *Area*		
Description	**Quantum of impact**	
Clearing of mapped wetland values within road reserves to enable road widening/upgrades	**Significant impact (hectares)**	0.70
	Quality (scale)	6.00
	Total quantum of impact	0.42

(Significant impact)

Part B: Rehabilitation credit calculation *Area* (onsite)					
Description	**Proposed rehabilitation (area in hectares)**		**Time until ecological benefit (years)**		
	Current quality of rehabilitation site (scale)		**Confidence in rehabilitation result (%)**		
	Future quality WITHOUT rehabilitation (scale)		**Rehabilitation credit**		0.00
	Future quality WITH rehabilitation (scale)				

(Rehabilitation Credit)

Part C: Significant residual impact calculation *Area*	
Total quantum of impact	0.42
Rehabilitation credit	0.00
Significant residual impact	0.42

(Significant residual impact)

WA Environmental Offsets Calculator

Step 3: Calculating offsets

Environmental value (step 1)	CCW	Significant impact (step 2, part A)	0.70
		Rehabilitation credit (step 2, part B)	0.00
		Significant residual impact (step 2, part C)	0.42

Area (offset site)

Offset calculation *Area*							
Offsets calculation	**Description**	**Proposed offset (area in hectares)**	1.21	**Duration of offset implementation (maximum 20 years)**	20.00	**Offset value**	0.42
	Revegetation and rehabilitation of cleared wetland area	**Current quality of offset site (scale)**	2.00	**Time until offset site secured (years)**	5.00		100.0%
		Future quality WITHOUT offset (scale)	2.00	**Risk of future loss WITHOUT offset (%)**	0.0%		
		Future quality WITH offset (scale)	7.00	**Risk of future loss WITH offset (%)**	0.0%		
		Time until ecological benefit (years)	10.00				
		Confidence in offset result (%)	70.0%			**OFFSET ADEQUATE?**	**YES**