Project Name									
Existing environment/ Impact		Mitigation	·	Significant Residual Impact			Offset Calculation Methodology		
	Avoid and minimise	Rehabilitation Type	Likely Rehab Success		Туре	Risk	Likely offset success	Time Lag	Offset Quantification
Clearing of 0.05 ha of SCP 26a	Development envelope has	Not applicable.	Not applicable.	Extent	Option 1: land	Land acquisition:	Can the values be defined and measured? Yes - the PTA is in the	Acquisition of land: No	To offset the loss of 0.05 ha of
	been modified to minimise clearing to as low as			Clearing of 0.05 ha of SCP 26a Quality	acquisition of Nowergup/Neer	Site not available for purchase, land price	process of procuring a consultant to conduct a site survey to assess environmental values should the site be acquired, focusing	time lag - secures land	SCP 26a 0.2-0.3 ha of SCP 26a habitat will be acquired,
	practicable.			0.05 ha in Very Good Condition, however it	abup site.	does not represent	on the environmental values proposed to be offset, other	upon agreement. Ecological benefit will	protected and managed,
	Construction and access			has no connectivity to areas of the TEC	Site has no	value for money,	vegetation values and FCTs.	be realised through	calculated using the
	areas have been selected to			outside of the development envelope.	existing	another buyer	1-6	classification to Parks Co and Recreation and cal management activities. No	Commonwealth Offset calculator. The Nowergup/Neerabup site
	coincide with proposed			Conservation Significance High conservation significance as the	conservation	purchases the land.	Operator experience/Evidence? It is proposed that the DBCA		
	future urban development				tenure and will	Management of site	manage the land.		
	cells or roads either reserved			vegetation comprises part of a TEC	be transferred to	Low risk as land to be		Time lag is likely to	contains 7.3 ha of SCP 26a and
	by the MRS, or as detailed			community listed as Endangered under the	conservation	ceded to DBCA or	What is the type of vegetation being revegetated? The site is	range from 5 to 10	vegetation condition is known
	within approved and draft			Biodiversity Conservation Act 2016. Land Tenure	estate.	other responsible	known to contain SCP 26a habitat and potential Banksia	years.	to be in Very Good to
	LSPs, to intentionally avoid direct impacts to vegetation			State, Freehold or Unallocated Crown Land		authority.	woodlands of the SCP TEC. A site assessment will determine vegetation type and condition within the site.		Excellent condition.
	which may have otherwise			(UCL) (not currently managed for			vegetation type and condition within the site.		
	been able to be retained			conservation)			Is there evidence the environmental values can be re-created		
	within future POS			Time Scale			(evidence of demonstrated success)?		
	reservations.			Permanent			A survey of the site will be conducted to assess the environmental		
	A CEMP will be						values and extent of the SCP 26a habitat proposed to be conserved	I	
	implemented to ensure			According to the agreed significance			and managed. DBCA is responsible for biodiversity conservation in		
	clearing is restricted to the			framework, residual impact is considered to			Western Australia and routinely carries out management and		
	approved development			be significant because cumulative impacts to			restoration activities within native flora and fauna habitats.		- 4
	envelope to avoid over- clearing and to minimise			this TEC is already at critical level.	Option 2: land	Land acquisition:	Can the values be defined and measured? Yes - the PTA is in the	Acquisition of land: No	
	other indirect impacts to				acquisition of 2 lots north of	Site not available for purchase, land price	process of procuring a consultant to conduct a site survey to assess environmental values should the site be acquired, focusing	time lag - secures land	SCP 26a 0.2-0.3 ha of SCP 26a habitat will be acquired,
	adjacent remnant vegetation.				Lake Clifton.	does not represent	on the environmental values proposed to be offset, other	upon agreement. Ecological benefit will	protected and managed,
					Land has no	value for money,	vegetation values and FCTs.	be realised through	calculated using the
					existing	another buyer	1-6	classification to Parks	Commonwealth Offset
					conservation	purchases the land,	Operator experience/Evidence? It is proposed that the DBCA	and Recreation and	calculator.
					tenure and will	unable to obtain both	manage the land.	management activities.	
					be transferred to	sites and amount of		Time lag is likely to	
					conservation	offset required.	What is the type of vegetation being revegetated? The site is	range from 5 to 10	
					estate.	Management of site:	known to contain SCP 26a habitat . A site assessment will	years.	
						ceded to DBCA or	determine vegetation types and condition within the site.		
						other responsible	Is there evidence the environmental values can be re-created		
						authority.	(evidence of demonstrated success)?		
						add.ioiicy:	A survey of the site will be conducted to assess the environmental		
							values and extent of the SCP 26a habitat proposed to be		
							conserved and managed. DBCA is responsible for biodiversity		
							conservation in Western Australia and routinely carries out		
							management and restoration activities within native flora and		
							fauna habitats.		
					Option 3: land	Land acquisition:	Can the values be defined and measured? Yes - the PTA is in the		To offset the loss of 0.05 ha of
							process of procuring a consultant to conduct a site survey to	-	SCP 26a 0.2-0.3 ha of SCP 26a
					Clifton.	purchase, land price does not represent	assess environmental values should the site be acquired, focusing on the environmental values proposed to be offset, other	upon agreement. Ecological benefit will	habitat will be acquired, protected and managed,
					Land has no	value for money,	vegetation values and FCTs.	be realised through	calculated using the
					existing	another buyer	regeration ranges and ress	classification to Parks	Commonwealth Offset
					conservation		Operator experience/Evidence? It is proposed that the DBCA	and Recreation and	calculator.
					tenure and will	unable to obtain both	1	management activities.	
					be transferred to	sites and amount of		Time lag is likely to	
					conservation	offset required.	What is the type of vegetation being revegetated? The site is	range from 5 to 10	
					estate.	Management of site:	known to contain SCP 26a habitat and potential Banksia	years.	
						Low risk as land to be ceded to DBCA or	woodlands of the SCP TEC. A site assessment will determine		
						other responsible	vegetation within the site.		
						authority.	Is there evidence the environmental values can be re-created		
							(evidence of demonstrated success)?		
							A survey of the site will be conducted to assess the environmental		
							values and extent of the SCP 26a habitat proposed to be		
							conserved and managed. DBCA is responsible for biodiversity		
							conservation in Western Australia and routinely carries out		
							management and restoration activities within native flora and		
	]		ļ				fauna habitats.		_

Complete file of the Complete			<u>.</u>					
In the property of the control of th	Clearing of 8.03 ha of the Commonwealth	]	<u>Extent</u>	Option 1:	There is no risk	Can the values be defined and measured? Yes - as an A Class	No time lag - Site	To offset 8.03 ha of Banksia
Size of factors from the control of	listed Banksia Woodlands of the Swan Coastal		Clearing of 8.03 ha of the Commonwealth	Retrospective	associated with	Reserve, owned and managed by the DBCA, significant	acquisition and	Woodlands of the SCP TEC,
Size of factors from the control of	Plain TEC.		listed Banksia Woodlands of the Swan		acquisition as the site	environmental surveys have been conducted onsite. These surveys	classification as a Class	acquisition and management
Auditor   Proposition of the Comment				1.1				,
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with call call can tend and on an 2.7 Part of the control of the c								_
Accordance to the control of the con								
Concentration designations of the second content of the second con			Very Good-Good condition and 1.79 ha in	as an A Class	habitat not	manages the land and will continue to do so.	-	The co-location of the Banksia
Septimized in the production of the control of the			Good condition.	reserve	maintained or		management activities	Woodlands TEC with the
Westerland of the first of an experience of the Control of the Con			<u>Conservation Significance</u>	(elevated from	improved or	What is the type of vegetation being revegetated? Black Cockatoo	will prolong ecological	Carnaby's Cockatoo offset
Acceptable of the TREE Year of the Communities of t			High conservation significance as Banksia	its Bush Foreve	degrades over time	foraging habitat and potential Black Cockatoo breeding trees,	benefit.	and/or Bush Forever is cost
Acceptable of the TREE Year of the Communities of t			Woodland of SCP TEC listed as Endangered	status). Provisio	n despite rehabilitation	Banksia Woodlands of the SCP TEC, known TEC habitat including		effective. The acquisition
The contraction of the first shadows of course with the contraction of					· ·			· ·
With the Person of the Control				_				' '
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Services as supported in Control (T.C.) is any support of the evolution of			framework, residual impact is considered			the site following its classification as an A Class Reserve.		
Services and support of the Control Co			significant as the loss of up to 8.03 ha of					
The removal can be significant from the contraction of the significant from the contraction of the contracti				to				
method community on the actual community  for the condition of the explanation of the community of the condition of the condi								
To project all continuous to the residuction of the process of procuring select survey to access environmental values, and control powers. In the process of				Option 2:	There is no risk	Can the values he defined and measured? Yes - the PTA is in the	No time lag - Site	<del>1</del>
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Complementary to Perkins on and projection for the Recreation and Recreation				for transfer from	n WPAC.	Operator experience/Evidence? It is proposed that the DBCA	Parks and Recreation is	
and may not be approximated and provision of fundings to DEAC International Content and Provision of International Content and International Content				Rural	Site environmental	manage the land, taking over from the WAPC.	in the process of being	
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Is there evidence the environmental values can be re-created (evidence of demonstrated success)?  A survey of the site will be conducted to assess the environmental values and extent of Banksia Woodlands of the SCP habitat allocated to METRONET and proposed to be conserved and managed. DBCA is responsible for biodiversity conservation in Western Australia and routinely carries out management and				the SCP TEC.		known to contain low, moderate and high value Black Cockatoo		
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restoration activities within native flora and fauna habitats.						Western Australia and routinely carries out management and		
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Clearing of 28.82 ha of Bush Forever site 289 (Ningana Bushland) including 18.07 ha of regionally significant bushland.	Extent  28.82 ha of Bush Forever Site 289 will be intersected by the development envelope, including 18.07 ha of regionally significant bushland.  Quality  More than 60% of the bushland is in Very Good or better condition.	Option 1: on- ground conservation management in Ningana Bushland (Bush Forever Site 289 to improve the	DBCA cannot secure funding shortfall to manage entire Ningana site. Condition of degraded vegetation not improved, or area of improved	Can the values be defined and measured? Yes – vegetation values can be measured through vegetation condition inspections from on ground works during: Rubbish removal Fencing installation Fire prevention and control works Feral animal control Weed management	Within seven years to achieve no net loss.	The application of conservation measures to an area of existing Bush Forever site that does not have existing active conservation management is cost effective and is relevant to the impact as it involves the site that is
	Conservation Significance Regionally significant bushland as the vegetation comprises part of Bush Forever site 289 Land Tenure State, Freehold or Unallocated Crown Land (UCL) (not currently managed for conservation) Time Scale Permanent	condition and quality of degraded vegetation within the un- impacted areas.	vegetation condition does not or is not likely to meet minimum area of 23.48 ha, within 7 years despite conservation measures.	Signage installation.     Operator experience/Evidence?     DBCA will manage the land within their ownership     What is the type of vegetation being revegetated?     Vegetation types/species associated with Bush Forever Site 289     Is there evidence the environmental values can be re-created     (evidence of demonstrated success)?     DBCA is responsible for biodiversity conservation in Western     Australia and routinely carries out management and restoration     activities.		directly affected by the YRE Part 2 Project. The area of offset required is 28.48 ha, which is proportionate to the impact as calculated using the guidance in SPP 2.8 - onground conservation management of approximately 69.59 ha of Degraded to Good vegetation e.g.
	According to the agreed significance framework, residual impact is considered significant due to the general high conservation significance of the vegetation which supports flora and fauna, TECs/PECs, Carnaby's Cockatoo, significant landform and	Ontion 2:	Land acquisition	Can the values be defined and measured? Ver a the DTA is in the	Acquisition of land: No	rehabilitation/revegetation (calculated independent of Commonwealth calculator).
	its function as an ecological linkage.	Acquisition of privately owned Bush Forever for transfer from Rural Complimentary to Parks and Recreation and seven years of management.		Can the values be defined and measured? Yes - the PTA is in the process of procuring a consultant to conduct a site survey to assess environmental values should the site be acquired, focusing on the environmental values proposed to be offset, other vegetation values and FCTs.  Operator experience/Evidence? It is proposed that the DBCA manage the land.  What is the type of vegetation being revegetated? A site assessment will determine vegetation types and condition within the site.  Is there evidence the environmental values can be re-created (evidence of demonstrated success)?  DBCA is responsible for biodiversity conservation in Western Australia and routinely carries out management and restoration activities within native flora and fauna habitats.	Acquisition of land: No time lag - secures land upon agreement. Ecological benefit will be realised through classification to Parks and Recreation and management activities. Time lag is likely to range from 5 to 10 years.	The application of conservation measures to an area of existing Bush Forever site that does not have existing active conservation management is cost effective and change from Rural Complimentary to Parks and Recreation zoning reduces the risk to the land and promotes long-term conservation. A site that contains the same environmental values will be selected to ensure the offset is relevant to the impact. The total area of the offset involved is proportionate to the impact as calculated using the guidance in SPP 2.8
Loss of 56.31 ha of Carnaby's Cockatoo habitat and 45 potential Black Cockatoo breeding trees	Extent Loss of 56.31 ha of Carnaby's Cockatoo habitat and 45 potential breeding trees. Quality 22.56 ha of high value foraging habitat, 33.7: ha of medium value foraging habitat and 2.1 ha of breeding habitat. Conservation Significance High conservation significance as Carnaby's Black Cockatoo is listed as Endangered unde the Biodiversity Conservation Act 2016. Land Tenure State, Freehold or Unallocated Crown Land (UCL) (not currently managed for conservation) Time Scale Permanent  According to the agreed significance framework, residual impact is considered significant when considering cumulative impacts (in this instance, proposed adjacent industrial and urban development).	3 Mardella site and its reclassification as an A Class r reserve (elevated from its Bush Forever status). Provision	There is no risk associated with acquisition as the site has already been acquired. Quality/condition of Bush Forever habitat not maintained or improved or degrades over time despite rehabilitation and conservation measures. Insufficient area of Black Cockatoo habitat meeting essential criteria able to be practicably acquired within required timeframe.	Can the values be defined and measured? Yes - as an A Class Reserve, owned and managed by the DBCA, significant environmental surveys have been conducted onsite. These surveys will be provided to the PTA. Further, the PTA is in the process of procuring an additional site survey to assess environmental values, including a Black Cockatoo survey and assessment.  Operator experience/Evidence? The DBCA already owns and manages the land and will continue to do so.  What is the type of vegetation being revegetated? Black Cockatoo foraging habitat and potential Black Cockatoo breeding trees, Banksia Woodlands of the SCP TEC, known TEC habitat including Caladenia huegelii and Drakea elastica.  Is there evidence the environmental values can be re-created (evidence of demonstrated success)? The same environmental values in Excellent condition are known to exist within the proposed offset site. DBCA is responsible for biodiversity conservation in Western Australia and routinely carries out management and restoration activities within native flora and fauna habitats.	No time lag - Site acquisition and classification as a Class A nature reserve has already occurred. Ecological benefit has already occurred due to Class A classification. Funding for further management activities will prolong ecological benefit.	To offset 56.31 ha of Carnaby's Black Cockatoo habitat, acquisition and management of approximately 340 ha of land as minimum is required. This has been calculated using the DoEE offset calculator. To offset the clearing of 45 potential Black Cockatoo breeding trees, acquisition and conservation of 135 potential breeding trees is required. This has been calculated at a 3:1 ratio. The co-location of the Banksi Woodlands TEC with the Carnaby's Cockatoo offset and/or Bush Forever offset is cost effective. The acquisition and/or implementation of conservation measures to protect existing high quality areas of the TEC is appropriation and the Commonwealth offset calculator used to ensure the offset is proportionate to the

		Bush Forever site in Keysbrook for transfer from Rural Complementary to Parks and Recreation and provision of funding to DBCA for 7 years of	WAPC. Site environmental values are unknown and may not be applicable to the offset Black Cockatoo habitat impacts.	process of procuring a site survey to assess environmental values, focusing on the environmental values and FCTs proposed to be offset.  Operator experience/Evidence? It is proposed that the DBCA manage the land, taking over from the WAPC.  What is the type of vegetation being revegetated? The site is likely to contain Black Cockatoo foraging habitat, potential Black Cockatoo breeding trees, Banksia Woodlands of the SCP TEC and wetland habitat. A site assessment will determine vegetation within the site.	acquisition has already occurred. Reclassification from Rural Complimentary to Parks and Recreation is in the process of being undertaken. Ecological	impact.
		Land has no existing conservation tenure and will be transferred to conservation estate. Land is known to contain	Land acquisition: No risk - land has already been acquired, however, the PTA is unsure how much will be allocated to the METRONET project. Management of site Low risk as land to be ceded to DBCA or other responsible authority.	Can the values be defined and measured? Yes - A detailed site survey has been conducted to assess the type and extent of site environmental values. The PTA is in the process of procuring a consultant to conduct an additional site survey to assess the type and extent of environmental values focusing on the environmental values proposed to be offset including assessment of Black Cockatoo habitat, vegetation values and FCTs if required.  Operator experience/Evidence? It is proposed that the DBCA manage the land.  What is the type of vegetation being revegetated? The site is known to contain low, moderate and high value Black Cockatoo foraging habitat and Banksia TEC. It may contain potential Black Cockatoo breeding trees.  Is there evidence the environmental values can be re-created (evidence of demonstrated success)?  A survey of the site will be conducted to assess the environmental values and extent of Carnaby's Black Cockatoo habitat allocated to METRONET and proposed to be conserved and managed. DBCA is responsible for biodiversity conservation in Western Australia and routinely carries out management and restoration activities within native flora and fauna habitats.	Acquisition of land: No time lag - as the site has already been acquired. Ecological benefit will be realised through classification to Parks and Recreation and management activities. Time lag is likely to range from 5 to 10 years.	
			Research agency unable to secure enough funding to commence the research proposal (i.e. funding from other parties.) Research results unavailable for use in future METRONET offset strategies due to delay in obtaining the data. Results do not present value for	Can the values be defined and measured?  Not applicable  Operator experience/Evidence?  Murdoch university has proven Black Cockatoo research experience and results.  What is the type of vegetation being revegetated?  Not applicable.  Is there evidence the environmental values can be re-created (evidence of demonstrated success)?  Not applicable.	and will continue for 5	Provision of funding to Murdoch will be no greater than 10% of the total offset proposal.