



intelligent outcomes | respected experience

## Alkimos Beach

### EPBC 2011/5902 Annual Compliance Report 2018

Prepared for  
Lendlease  
by Strategen

December 2018



# **Alkimos Beach**

## **EPBC 2011/5902 Annual Compliance Report 2018**

Strategen is a trading name of  
Strategen Environmental Consultants Pty Ltd  
Level 1, 50 Subiaco Square Road Subiaco WA 6008  
ACN: 056 190 419

December 2018

**Disclaimer and Limitation**

This report has been prepared for the exclusive use of the Client, in accordance with the agreement between the Client and Strategen (“Agreement”).

Strategen accepts no liability or responsibility whatsoever for it in respect of any use of or reliance upon this report by any person who is not a party to the Agreement.

In particular, it should be noted that this report is a qualitative assessment only, based on the scope of services defined by the Client, budgetary and time constraints imposed by the Client, the information supplied by the Client (and its agents), and the method consistent with the preceding.

Where practicable to do so, Strategen has attempted to verify the accuracy and completeness of the information supplied by the Client. Where it has not been possible to independently verify the information, Strategen has consequently reached conclusions, using its best professional judgement, based on the information provided.

Copyright and any other Intellectual Property arising from the report and the provision of the services in accordance with the Agreement belongs exclusively to Strategen unless otherwise agreed and may not be reproduced or disclosed to any person other than the Client without the express written authority of Strategen.

**Client: Lendlease**

Report Version	Revision No.	Purpose	Strategen author/reviewer	Submitted to Client	
				Form	Date
Draft Report	A	Client review	T. George/K. Moyle	Electronic	9 November 2018
Draft Report	B	Client review	T. George	Electronic	20 November 2018
Final Report	0	For Publication	T. George	Electronic	23 November 2018
Final Report	0	For Publication	T. George	Electronic	26 November 2018
Final Report	1	For Publication	T. George	Electronic	13 December 2018

Filename: LLC18409\_01 R001 Rev 1 - 13 December 2018

## Table of contents

<b>1. Introduction</b>	<b>1</b>
1.1 Project background	1
1.2 Environmental approval to implement the project	1
<b>2. Current status</b>	<b>5</b>
<b>3. Audit methodology</b>	<b>6</b>
3.1 Audit plan	6
3.1.1 Purpose and scope	6
3.1.2 Methodology	6
3.2 Audit terminology	7
<b>4. Audit results</b>	<b>8</b>
4.1 Compliance with EPBC 2011/5902 conditions	8
4.1.1 Conformance with the Conservation Area Management Plan	8
4.1.2 Conformance with the Foreshore Management Plan	10
4.1.3 Recommendations	11
4.1.4 Conformance with the Precinct Landscape and Revegetation Plan	12
4.1.5 PLRP performance	12
<b>5. References</b>	<b>20</b>

## List of tables

Table 1: Persons consulted during audit	6
Table 2: Action implementation status	7
Table 3: Conservation area Carnaby's Black Cockatoo habitat revegetation performance	9
Table 4: Foreshore Carnaby's Black-Cockatoo habitat revegetation performance	10
Table 5: Actual and proposed plantings to meet Condition 12 (a) and (b)	12
Table 6: Compliance with Conditions of EPBC 2011/5902	13

## List of figures

Figure 1: Alkimos Beach Precinct Plan	3
---------------------------------------	---

## List of appendices

Appendix 1 Compliance with Conservation Area Management Plan
Appendix 2 Compliance with Foreshore Management Plan
Appendix 3 Compliance with Precinct Landscape and Rehabilitation Plan
Appendix 4 Plant schedules
Appendix 5 Tracking against planting targets



## 1. Introduction

This report addresses the status and compliance of implementation of the Alkimos Beach residential development with the conditions in *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) approval 2011/5902 (EPBC 2011/5902). This report has been prepared for the purpose of meeting the requirements of condition 3 of EPBC 2011/5902, which requires the proponent to publish an annual compliance report.

### 1.1 Project background

Lendlease Communities (Alkimos) Pty Ltd (Lendlease) in partnership with LandCorp, is developing the Alkimos Beach Residential Development (Alkimos Beach, the project) located approximately 40 km northwest of the Perth Central Business District.

On 30 June 2012, the Alkimos Beach development was approved by the Federal Minister for the Environment under ss 130(1) and 133 of the EPBC Act. The Alkimos Beach development involves clearing approximately 97 ha of native vegetation for development of Lot 1004, 80L Romeo Road and 2611 Marmion Avenue, Alkimos (Figure 1).

### 1.2 Environmental approval to implement the project

Alkimos Beach was referred to the Department of the Environment (DotE) (now the Department of the Environment and Energy [DEE]), for assessment under the EPBC Act in 2011. The project received conditional approval on the 30 June 2012 (EPBC 2011/5902). A variation to EPBC 2011/5902 was approved on 24 August 2012, amending condition 14.

On 13 June 2013, following de-listing of the Graceful Sun-Moth from the threatened species list defined under the EPBC Act, a second variation to EPBC 2011/5902 was approved. The variation included removal of conditions 9, 10, 11, 15, 16, 17, Attachment B and changes to relevant definitions referring to those removed conditions. Revised conditions 10 and 11 were included in the EPBC 2011/5902 variation.

Following recommendations from the 2015 EPBC Act audit, the Precinct Landscape and Revegetation Plan (PLRP), required under condition 12 of EPBC 2011/5902, was updated and submitted to DotE for approval on 7 October 2015. The revised PLRP was approved on 4 April 2016.

A further request to vary conditions was approved by DEE on 19 August 2016. The variation included revision to condition 4 of EPBC 2011/5902 to include the 'Revised Management Plan condition' whereby minor updates that do not result in a 'new or increased impact' to the protected matter can be made to management plans without requiring approval from the Minister.

Following recommendations from the 2017 EPBC Act audit, all three management plans required under EPBC 2011/5902 were updated and submitted to DEE. Re-approval of the management plans was received in July 2018.

This page is intentionally blank





**LEGEND**

 SUBJECT LAND

**CARNABYS BLACK COCKATOO**


 RETENTION (0.14ha)


 LOSS (21.14ha)

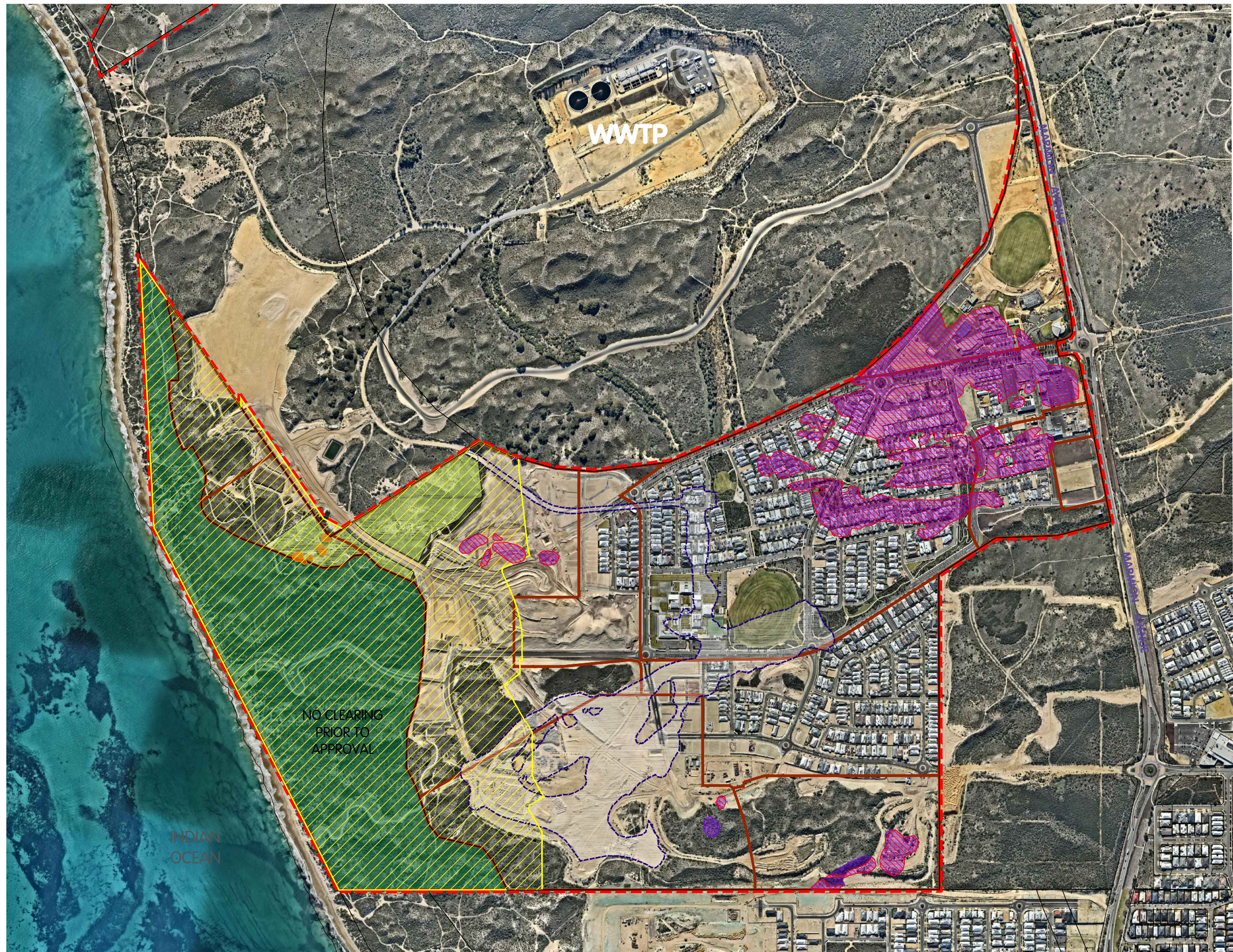
TOTAL AREA - 21.28ha

 CONSERVATION POS

 REGIONAL OPEN SPACE

 AREA PREVIOUSLY  
CLEARED DURING  
WWTP WORKS

 CLEARED AREA OF  
CBC HABITAT - 20.86ha



SIZE A3  
1:10,000  
0 metres 100 200 300 400 500

**AERIAL PHOTOGRAPHY**  
SOURCE: NEARMAPS  
YYMMDD: 180622

**CADASTRAL INFORMATION**  
SOURCE: LANDGATE  
YYMMDD: 101101  
DWG REF: 0845cod  
PROJECTION: PCG94

REV	DESCRIPTION	YYMMDD	DRAWN	APPR'D
H	UPDATE ORTHO & AREA CLEARED	180822	SB	RD
G	CALC. CLEARED AREA OF CBC HABITAT	171004	SB	RD
F	UPDATE ORTHO & AREA CLEARED	170830	SB	RD
E	UPDATE ORTHO	160830	HH	RD

CARNABY'S BLACK COCKATOO - FIGURE  
**Alkimos Beach - South Alkimos**  
City of Wanneroo

REF NO.	DRAW NO.	REV.
DLL ALK	RD1 051	H



This page is intentionally blank

## 2. Current status

Activities undertaken during the audit period (6 September 2017 to 5 September 2018) involved activities relating to Precinct (P) 1, 2 and 3, the conservation POS and the foreshore area of the Alkimos Beach development, including the following:

- monitoring and maintenance including infill planting within the foreshore reserve and conservation POS:
  - \* in the Area Previously Designated for Maintenance and Emergency Vehicle Access (APDMEVA)
  - \* streetscapes along the north beach access road (Coolangatta Rise)
  - \* lookout where additional seedlings were planted in coir netted areas and brushing placed to stabilise the surfaces
  - \* beach blowout
  - \* south path and south tracks
  - \* adjacent to the road through the conservation area, with mulching and considerable earthworks to repair blowouts, and some areas were rabbit fenced
- the total foreshore area revegetated and maintained is 2.7 ha (as of September 2018)
- the total conservation area revegetated and maintained is 2.08 ha (as of March 2018)
- vegetation clearing occurred in P2 and P3
- civil construction occurred in P2 and P3
- vegetation clearing within P3.

All three management plans were amended and received re-approval from DEE in July 2018 and were reposted on the Lendlease Alkimos Beach website within the required timeframe.

Minor amendments were made to:

- Conservation Area Management Plan (CAMP): the minimum plant density in Table 3, Section 4.2 to reflect the two plants per square metre (2 plants/m<sup>2</sup>) minimum planting density referred to in the Tranen Alkimos Beach revegetation plan
- Foreshore Management Plan (FMP): the minimum plant density in Table 4, Section 5.2 of the FMP to reflect the two plants per square metre (2 plants/m<sup>2</sup>) minimum planting density referred to in the Tranen Alkimos Beach revegetation plan
- PLRP: the interpretation of the Condition 12 (a) and 12 (b) of EPBC 2011/5902 in the PLRP, which are directly correlated and requires:
  - \* the establishment of an equivalent  $\geq 5$  ha of Carnaby's Black Cockatoo (CBC) habitat through streetscapes and landscaping planting (across the development), and
  - \*  $\geq 50\%$  of plantings of trees and shrubs in streetscape and landscape must consist of plant species known to be primary feeding plants for CBCs.
- PLRP: Section 3, including Table 3 and Table 4 within the PLRP to reflect the re-interpretation, together with Appendices D and E, which outline the number of CBC plants and planting schedules across the four precincts.

## 3. Audit methodology

### 3.1 Audit plan

#### 3.1.1 Purpose and scope

This document fulfils the requirement of condition 3 of EPBC 2011/5902. Condition 3 requires the person taking the action to publish an annual report for the previous twelve-month period, addressing compliance with each condition of EPBC 2011/5902; as follows:

*'Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published. Each management plan must be published on the website for the length of the approval.'*

This Annual Compliance Report (ACR) addresses the audit period between 6 September 2017 and 5 September 2018 for the conditions and commitments of EPBC 2011/5902. The ACR is due to be published on the Lendlease website by 5 December 2018.

Proponent management commitments included in the following management plans, required by conditions 10, 11 and 12 respectively, were also assessed as part of the audit:

- CAMP (RPS 2018)
- FMP (RPS 2018)
- PLRP version 5 (Lendlease 2018).

Audit of the management plans involved assessment of the commitments to determine if the plan has been satisfactorily implemented. However, as all three management plans were re-approved during the audit period, with an interpretation change for the PLRP, some commitments were assessed for the first time during this audit.

Where a previous ACR had found a condition or management commitment to be 'Compliant (completed)' that finding is accepted as continuing to be applicable to the current audit period unless circumstances to the contrary are identified, in which case the item is re-assessed.

#### 3.1.2 Methodology

The audit was undertaken in August and September 2018 and involved a site inspection by Tiffany George, Strategen Environmental Consultants, on 23 August 2018, interviews with key members of the project team and a review of documentation to provide evidence to support the audit.

Table 1 provides an overview of the personnel consulted as part of the audit.

Table 1: Persons consulted during audit

Person	Position	Organisation
Nadja Kampfenkel	Sustainability Manager WA	Lendlease Communities
Jacob Abbott	Assistant Development Manager	Lendlease Communities
Peter Grose	Managing Director	Tranen
Emma Carr	Senior Landscape Architect	Emerge Associates

Some items in management plans in previous audits have been deemed “unauditable” due to the wording, generally the item does not constitute an action, and is more like a note, providing context. These unauditable items remain in this year’s audit for consistency as deletion would disrupt the referencing in the audit tables.

## 3.2 Audit terminology

The ‘Status’ field of the audit tables (refer to Section 4) describes the implementation of actions and compliance with the approval. DEE (DotE 2014) has published Annual Compliance Report Guidelines and terminology from this guidance was applied in this audit.

Table 2: Action implementation status

Status	Acronym	Description
<b>Conditions of approval</b>		
Compliant	C	Sufficient evidence is required to confirm that all the requirements of a condition have been met, including the implementation of management plans or other measures required by those conditions. (Note Strategen also utilises the status ‘Compliant (completed)’ where a requirement has a finite period of application and has been determined to be satisfactorily completed).
Potentially Non-compliant	PNC	The requirements of a condition or elements of a condition, including the implementation of management plans and other measures, have not been met.
Not applicable	NA	The requirements of a condition or elements of a condition fall outside of the scope of the current reporting period. For example, a condition which applies to an activity that has not yet commenced.
<b>Management Plans</b>		
Conformant	C	Sufficient evidence is required to confirm that the requirements of the procedures, programs and/or management actions detailed within an Environmental Management Plan or similar document have been satisfactorily met.
Potentially Non-conformant	PNC	Considered to be any deviation from the procedures, programs and/or management actions detailed within an Environmental Management Plan or similar document.
Not applicable	NA	The requirements of a management action fall outside of the scope of the current reporting period. For example, a condition which applies to an activity that has not yet commenced.

Source: adapted from DotE (2014)

## 4. Audit results

The results of the 2018 audit of EPBC 2011/5902 are shown in Table 6.

The results of the 2018 audit of conformance with the management actions contained within the CAMP (condition 10), FMP (condition 11) and PLRP (condition 12) are outlined in Appendix 1, Appendix 2 and Appendix 3, respectively.

A total of 207 items were audited from EPBC 2011/5902, CAMP, FMP and PLRP.

### 4.1 Compliance with EPBC 2011/5902 conditions

No potential non-compliances with conditions of EPBC 2011/5902 (Table 6) were identified during the audit.

#### 4.1.1 Conformance with the Conservation Area Management Plan

No potential non-conformances with the requirements of the CAMP (Appendix 1) were identified during the audit.

In accordance with the revised CAMP (refer to audit item CAMP 60), the ACR is required to contain a conservation area Carnaby's Black Cockatoo habitat revegetation section which will include the following:

- *revegetation completion criteria and weed monitoring*
- *revegetation and weed contingency actions if required*
- *erosion monitoring within the revegetation area*
- *report observations of feral pests*
- *temporary fencing and signage of the revegetation area*
- *report any fire incidences in the foreshore and the response.*

This information for this audit period is in Table 3 and is based on advice from Lendlease and Tranen.

All the completion criteria in the CAMP have been met. On this basis, the three-year maintenance period for the CAMP area concluded in September 2018, as scheduled.

Table 3: Conservation area Carnaby's Black Cockatoo habitat revegetation performance

Action item	Status									
Revegetation completion criteria and weed monitoring	Monitoring of the CAMP completion criteria commenced in Spring 2015. Monitoring results of the amended completion criteria in the newly approved CAMP (approved in July 2018) are reported below:									
	Year after planting	Year 1	Year 2	Revised targets	Spring 2015 (overall mean)	Autumn 2016 (overall mean)	Spring 2016 (overall mean)	Autumn 2017 (overall mean)	Spring 2017 (overall mean)	Autumn 2018 (overall mean)
	Survival (established plant density- both planting and seeding)	4.5 plants/m <sup>2</sup>	2.8 plants/m <sup>2</sup>	90% (Yr 1) 70% (Yr 2) (equivalent to 1.4 plants /m <sup>2</sup> )	-	-	2.3	1.9	-	-
	Average plant density (plants/m <sup>2</sup> )	5	4	2 (planting density can range from 1.7 to 2)	2.2	1.8	2.3	1.9	2.2	2.1
	Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	70%	84.1	93	93	107	107	114
	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	50%	1.9	18.3	37.5	44	59	67
	Weeds coverage	10% cover	10% cover	10% cover	<1	<1	<1	<1	<1	<1
Revegetation and weed contingency actions if required	<p>Infill planting took place where completion criteria were not being met in previous audit period. Plant coverage during the audit period was above all criteria. If planting success falls below 70% in two consecutive monitoring events, contingency measures will be implemented.</p> <p>Weed control by herbicide spraying and manual removal continues to be undertaken as per the CAMP requirements.</p>									
Erosion monitoring within the revegetation area	<p>Erosion controls were put in place as part of the initial revegetation works (brushing and mulch). Brushing and mulching continues to be applied where required, and erosion monitoring is reported in the Tranen Monitoring Report.</p> <p>No evidence of soil erosion has been sighted even after heavy rainfall.</p>									
Report observations of feral pests	<p>Some areas in the CAMP were rabbit fenced during the audit period.</p> <p>There was no evidence of any significant rabbit activity on any parts of the site at any time since the previous monitoring.</p> <p>Mobs of kangaroos have been sighted on several occasions, however traffic is of less concern now that the establishing vegetation is becoming larger.</p>									
Temporary fencing and signage of the revegetation area	<p>Temporary fencing, boulders and signs have been installed in key areas to restrict access to the revegetation areas. Tracks not required for use have been revegetated. Monitoring of the temporary fencing and signage is carried out by the construction contractor.</p>									
Report any fire incidents in the foreshore and the response	<p>No fire incidents have been observed to date. Any future incidents and weed monitoring will be reported as part of the biannual monitoring report and contingency measures put in place if required.</p>									

#### 4.1.2 Conformance with the Foreshore Management Plan

No potential non-conformances with the requirements of the FMP (Appendix 2) were identified during the audit.

In accordance with the FMP (refer to audit item FMP 60), this ACR is required to contain a foreshore Carnaby's Black-Cockatoo habitat revegetation section which will include the following:

- *revegetation completion criteria and weed monitoring*
- *revegetation and weed contingency actions if required*
- *erosion monitoring within the foreshore area*
- *report observations of feral pests*
- *temporary fencing, pathways and signage of the revegetation area*
- *report any fire incidences in the foreshore and the response.*

The information required to address FMP 60 is provided in Table 4, and is based on advice from Lendlease and Tranen.

Table 4: Foreshore Carnaby's Black-Cockatoo habitat revegetation performance

Action item	Status									
Revegetation completion criteria and weed monitoring	Monitoring of the FMP completion criteria commenced in Spring 2015. Results of the monitoring against completion criteria is included in the table below:									
	Year after planting	Year 1	Year 2	Revised Targets	Spring 2015 (overall mean)	Autumn 2016 (overall mean)	Spring 2016 (overall mean)	Autumn 2017 (overall mean)	Spring 2017 (overall mean)	Autumn 2018 (overall mean)
	Survival (established plant density – both planting and seeding)	4.5 plants/m <sup>2</sup>	3.6 plants/m <sup>2</sup>	90% (Yr 1) 70% (Yr 2) (equivalent to 1.4 plants /m <sup>2</sup> )	-	-	2.7 (Beach blowout 3.3)	2.5 (beach blowout 2.85)	-	-
	Average plant density (plants/m <sup>2</sup> )	5	4	2 (planting density can range from 1.7 to 2)	2.8	2.5	2.7	2.5	2.9 3.5 (beach blowout)	2.8 3.45 (beach blowout)
	Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	70%	84.1	93	84	110	110	120
	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	50%	1.9	18.3	16	26	43	53
	Weeds coverage	10% cover	10% cover	10% cover	<1	<1	<1	<1	<1	<1
Revegetation and weed contingency actions if required	Additional infill planting has taken place where completion criteria are not being met. Weed control continues to be undertaken as per the FMP requirements.									



Action item	Status
Erosion monitoring within the revegetation area	Erosion controls were put in place as part of the initial revegetation works (brushing and mulch). Brushing and mulching continues to be applied where required, and erosion monitoring is reported in the Tranen Monitoring Report. No evidence of soil erosion has been sighted even after heavy rainfall.
Report observations of feral pests	There was no evidence of any significant rabbit activity on any parts of the site at any time since the previous monitoring. Mobs of kangaroos have been sighted on several occasions, however traffic is of less concern now that the establishing vegetation is becoming larger. For the first time a kangaroo was observed using an opening constructed in the south beach path fencing. Tranen reported that the City of Wanneroo is aware of the increase in kangaroos and is planning some control measures.
Temporary fencing, pathways and signage of the revegetation area	Temporary fencing, boulders and signs have been installed in key areas to restrict access to the revegetation areas. Tracks not required for use have been revegetated. Monitoring of the temporary fencing and signage is carried out on a weekly basis by the construction contractor.
Report any fire incidences in the foreshore and the response	No fire incidents have been observed to date. Any future incidents and weed monitoring will be reported as part of the biannual monitoring report and contingency measures put in place if required.

#### 4.1.3 Recommendations

It is recommended that actions identified in the latest biannual Tranen Monitoring Reports are implemented, particularly those measures regarding plant cover in the foreshore area.

#### 4.1.4 Conformance with the Precinct Landscape and Revegetation Plan

During the previous audit period, two potential non-conformances with the requirements of the PLRP (Appendix 3) were reported in the ACR, as the plant tracking sheet indicated the 50% planting target for Carnaby's Cockatoo trees and shrubs was at risk of not being met at project completion. The PLRP was updated during the current audit period in negotiation with the DEE to allow a re-interpretation of Condition 12 (a) and (b) of EPBC 2011/5902.

The revised plant tracking spreadsheet now indicates where the 50% planting target for Carnaby's Cockatoo trees and shrubs will be established across the development (Appendix 5). As the revised PLRP was approved in July 2018, the revised approach was implemented for less than 2 months in the audit period.

#### 4.1.5 PLRP performance

In accordance with the annual reporting requirements outlined in the PRLP (audit item PLRP 19), this ACR is required to include the following:

1. Provide an update of any completed or tendered landscape for future stages. A summary of the works undertaken during the audit period, including plant schedules provided in Appendix 4.
2. Report against planting targets. Tracking against the rehabilitation targets are provided in Appendix 5, including tree and shrub tracking spreadsheets.
3. Report against survival of landscape (PLRP 2, Appendix 3).

Lendlease has tracked the performance of the 5.051 ha across the development site (both existing and future areas) that will contain 50% plantings of CBC habitat as shown in Table 5.

Table 5: Actual and proposed plantings to meet Condition 12 (a) and (b)

Summary 'CBC parks' only (Cond 12a & 12b)	Cond 12b	Cond 12a			Cond 12b			
		Total Trees (CBC)	Total Trees (non CBC)	Total Shrubs (CBC)	Total trees & shrubs (CBC)	Total trees & shrubs (non CBC)	Total trees & shrubs	
Parks and planting areas i.e. allocated to CBCs (in ha)								
Existing Parks A, D, F, G, S, U:	2,394	3,562	427	11,088	54,556	14,650	54,983	69,633
						21%	79%	
Future Parks J (partial), O, P, R:	2,657	3,426	53	73,744	19,234	77,170	19,293	96,457
						80%	20%	
<b>Total ha</b>	<b>5.051</b>	<b>6,988</b>				<b>91,820</b>	<b>74,276</b>	<b>166,090</b>
						55%	45%	

Table 6: Compliance with Conditions of EPBC 2011/5902

Condition number	Condition	Evidence/Comment	Compliance status
1	Within 30 days after the commencement of Construction, the person taking the action must advise the Department in writing of the actual date of commencement.	This item is reported as completed in the 2014 Compliance Report (R_001).  R_001_Annual Compliance Report 2017_Rev 1.	C (completed)
2	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Accurate records for all applicable conditions have been maintained and were available at the time of the audit and following the audit (refer to other items in this table and appendices).	C
3.1	Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions.	R_001_Annual Compliance Report 2017_Rev 1.  C_001_Annual Compliance Report 2017 to DEE.  The DEE was notified via email on 23 November 2017 that the 2017 Compliance Report (R_001) was published on the Alkimos Beach website, within 3 months of the anniversary of the commencement of the action (C_001).	C
3.2	Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published.	R_001_Annual Compliance Report 2017_Rev 1.  C_001_Annual Compliance Report 2017 to DEE.  Email evidence shows the DEE was notified on 23 November 2017 (C_001) that the 2017 Compliance Report (R_001) was published on the Alkimos Beach website.  There were two potential non-conformances (PNCs) identified in the 2017 ACR with regards to the PLRP. These were discussed and resolved with the DEE during the audit period.	C
3.3	Each management plan must be published on the website for the length of the approval.	The revised and reapproved PLRP, CAMP and FMP were sighted on the Alkimos Beach website after the completion of the audit period (20 September 2018) at:  <a href="https://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/6-star-green-star-living/">https://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/6-star-green-star-living/</a> .	C

Condition number	Condition	Evidence/Comment	Compliance status
4.1	a) The person taking the action may choose to revise the CAMP, FMP and PLRP approved by the Minister under conditions 10, 11 and 12 without submitting it for approval (including approval under section 143A of the EPBC Act), if the taking of the action in accordance with the revised plan would not be likely to have a new or increased impact.	Lendlease chose to revoke this option and revised the three management plans during the audit period, and submitted to DEE for re-approval. Re-approval was achieved in July 2018.	NA
4.2	If the person taking the action makes this choice they must:  i) Notify the Department in writing that the approved plan has been revised and provide the Department with: <ul style="list-style-type: none"> <li>• an electronic copy of the revised plan</li> <li>• an explanation of the differences between the revised plan and the approved plan; and</li> <li>• the reasons the person taking the action considers that taking the action in accordance with the revised plan would not be likely to have a new or increased impact.</li> </ul>	Refer to 4.1.	NA
4.3	ii) Declare in writing a date on which the revised plan will first be implemented by the person taking the action. That date of initial implementation must be at least 28 days after the revised plan is submitted.	Refer to 4.1.	NA
4.4	b) The person taking the action may revoke their choice under condition 4.a) at any time by giving written notice to the Department, in which case from the following day the person taking the action must implement the approved plan.	C_002_Management Plans DEE decision clarification letter.  Condition 4 a) was revoked and Lendlease submitted the three management plans for re-approval which was received from DEE. The management plans were implemented.	C
4.5	c) If the Minister gives a notice to the person taking the action that the Minister is satisfied that the taking of the action in accordance with the revised plan would be likely to have a new or increased impact, then: <p style="margin-left: 40px;">i) Condition 4.a) does not apply, or ceases to apply, in relation to the revised plan; and</p> <p style="margin-left: 40px;">ii) The person taking the action must implement the approved plan.</p> <p>To avoid any doubt, this condition does not affect any operation of conditions 4.a) and 4.b) in the period before the day the notice is given.</p>	Condition 4 a) was revoked and Lendlease submitted the three management plans for re-approval which was received from DEE in July 2018.  The approved management plans were implemented throughout the audit period as shown in Appendix 1, Appendix 2, and Appendix 3 in this report.	C
4.6	At the time of giving the notice the Minister may also notify that for a specified period of time condition 4.a) does not apply for one or more specified plans required under the approval.	Refer to item 4.5.	NA

Condition number	Condition	Evidence/Comment	Compliance status
5	If the Minister believes that it is necessary or convenient for the better protection of Listed threatened species and communities (sections 18 and 18A) to do so, the Minister may request that the person taking the action make specified revisions to the management plan specified in the conditions and submit the revised management plan for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plan must be implemented. Unless the Minister has approved the revised management plan then the person taking the action must continue to implement the management plan originally approved, as specified in the conditions.	<p>C_003_DEE request revision of PLRP.</p> <p>C_004_Submission of PLRP to DEE.</p> <p>Strategen (on behalf of Lendlease) received a request from the Minister's delegate on 13 January 2018 for the PLRP to be revised (C_003).</p> <p>Prior to this date, Lendlease were seeking a variation to Conditions 12 a) and b) regarding the 50% target for tree and shrub plantings that are required to be primary feeding plants for Carnaby's Black-Cockatoo's.</p> <p>The PLRP was submitted to DEE on 18 May 2018 (C_004) and received re-approval in July 2018.</p>	C
6	If, at any time after five years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.	The action has substantially commenced within five years from the date of approval.	C (completed)
7.1	Unless otherwise agreed to in writing by the Minister, the person taking the action must publish all management plans referred to in their conditions of approval on their website.	<p>The PLRP, CAMP and FMP were sighted on the Alkimos Beach website after the completion of the audit period (20 September 2018) at:</p> <p><a href="https://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/6-star-green-star-living/">https://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/6-star-green-star-living/</a>.</p>	C
7.2	Each management plan must be published on the website within 1 month of being approved and must remain on the website for the life of the project.	<p>C_005_Revised management plans on AB website.</p> <p>The PLRP, CAMP and FMP management plans were posted on the Alkimos Beach website on 20 July 2018, within one month of re-approval.</p> <p>The PLRP, CAMP and FMP were sighted on the Alkimos Beach website after the completion of the audit period (20 September 2018) at:</p> <p><a href="https://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/6-star-green-star-living/">https://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/6-star-green-star-living/</a>.</p>	C
8	The person taking the action must not clear more than 21.1 ha of Carnaby's Black Cockatoo foraging habitat from Lot 1004, 80L Romero Road and 2611 Marmion Avenue, Alkimos, Western Australia.	<p>During the audit period 0.28 ha of Carnaby's Cockatoo foraging habitat was cleared across the development area.</p> <p>Clearing of CBC foraging habitat to date is 20.86 ha.</p> <p>C_007_CBC clearing area 2018.</p>	C
9	<i>Condition 9 deleted.</i>	NA.	NA

Condition number	Condition	Evidence/Comment	Compliance status
10.1	<p>To protect habitat for listed threatened species, the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) detailing management of POS (designated Conservation POS at Attachment A), for the approval by the Minister. The CAMP must include:</p> <ul style="list-style-type: none"> <li>a) at least 2 ha of Carnaby's Black-Cockatoo foraging habitat to be retained and rehabilitated in POS on the project area, as shown in Attachment A, to be managed for habitat recovery, protection and conservation;</li> <li>b) details of supplementary planting equivalent to at least 1 ha of Carnaby's Black-Cockatoo foraging habitat on the project area (to be spread across conservation POS and ROS), including timeframes and survival targets proposed for plantings;</li> <li>c) measures to manage weeds and feral pests;</li> <li>d) bushfire prevention and management measures;</li> <li>e) erosion control measures;</li> <li>f) access management (including boardwalks, pathways, signage and fencing);</li> <li>g) performance indicators and corrective measures;</li> <li>h) monitoring and reporting measures;</li> <li>i) roles and responsibilities of contractors, staff and the person taking the action; and</li> <li>j) time frames for the implementation and management of the above measures.</li> </ul>	<p>C_006_CAMP FMP PLRP decision letter.</p> <p>The DEE advised in July 2018 that the revised CAMP meets the requirements of Condition 10.</p>	C
10.2	The CAMP must be submitted to the Department within 12 months of the date of approval.	<p>R_001_Annual Compliance Report 2017_Rev 1.</p> <p>This requirement was indicated to have been previously found compliant in the 2013 Compliance Report (R_001).</p>	C (completed)
10.3	If the Minister approves the CAMP, the approved plans must be implemented.	<p>The key actions of the CAMP were assessed during this audit period and it was found that of the 87 key actions identified within the CAMP:</p> <ul style="list-style-type: none"> <li>• 82 conformant</li> <li>• two completed</li> <li>• three N/A.</li> </ul> <p>Refer to Appendix 1 for further detail.</p>	C
10.4	No construction can commence in the area shown as the No Clearing area on Attachment C until the CAMP is approved by the Minister.	<p>R_001_Annual Compliance Report 2017_Rev 1.</p> <p>The CAMP was initially approved on 8 April 2014 (R_001). The 2014 Compliance Report confirms that no clearing had occurred in the No Clearing area prior to this date.</p>	C (completed)

Condition number	Condition	Evidence/Comment	Compliance status
11	<p>To protect habitat for listed threatened species, the person taking the action must prepare and submit a Foreshore Management Plan (FMP) detailing management of ROS on the project area (designated Regional Parks and Recreation at Attachment A), for approval by the Minister. The FMP must include:</p> <ul style="list-style-type: none"> <li>a) details of supplementary planting equivalent to at least 1 ha of Carnaby's Black-Cockatoo foraging habitat on the project area (to be spread across conservation POS and ROS), including timeframes and survival targets proposed for plantings;</li> <li>b) details of funding to be provided for long-term conservation management of ROS and details of the entity who will be responsible for management of ROS;</li> <li>c) measures to manage weeds and feral pests;</li> <li>d) bushfire prevention and management measures;</li> <li>e) erosion control measures;</li> <li>f) access management (including visitor facilities, boardwalks, pathways, signage and fencing);</li> <li>g) performance indicators and corrective measures;</li> <li>h) monitoring and reporting measures;</li> <li>i) roles and responsibilities of contractors, staff and the person taking the action; and</li> <li>j) time frames for the implementation and management of the above measures.</li> </ul>	<p>C_006_CAMP FMP PLRP decision letter.</p> <p>The DEE advised in July 2018 that the revised FMP meets the requirements of Condition 11.</p>	C
11.2	The FMP must be submitted to the Department within 12 months of the date of approval.	<p>R_001_Annual Compliance Report 2017_Rev 1.</p> <p>This requirement was indicated to have been previously found compliant in the 2013 Compliance Report (R_001).</p>	C (completed)
11.3	If the Minister approves the FMP, the approved plans must be implemented.	<p>The key actions of the FMP were assessed during this audit period and found that of the 69 key actions identified within the FMP:</p> <ul style="list-style-type: none"> <li>• 67 conformant (including three completed)</li> <li>• two not applicable for this audit period.</li> </ul> <p>Refer to Appendix 2 for further detail.</p>	C
11.4	No construction can commence in the area shown as the No Clearing area on Attachment C until the FMP is approved by the Minister.	<p>R_001_Annual Compliance Report 2017_Rev 1.</p> <p>The FMP was approved on 8 April 2014. The 2016 Compliance Report (R_001) confirms that no clearing had occurred in the No Clearing area prior to this date.</p>	C (completed)

Condition number	Condition	Evidence/Comment	Compliance status
12	<p>To protect habitat for listed threatened species the person taking the action must prepare and submit a Precinct Landscape and Revegetation Plan (PLRP) for the project area, for approval by the Minister. The PLRP must include:</p> <ol style="list-style-type: none"> <li>measures to establish the equivalent of at least 5 ha of Carnaby's Black-Cockatoo habitat on the project area, through streetscape and landscape planting;</li> <li>at least 50% of plantings of trees and shrubs in streetscape and landscape planting must consist of plant species known to be primary feeding plants for Carnaby's Black-Cockatoo;</li> <li>timeframes and survival targets proposed for plantings;</li> <li>contingency measures if survival targets are not achieved;</li> <li>monitoring and reporting measures;</li> <li>roles and responsibilities of contractors, staff and the person taking the action; and</li> <li>timeframes for the implementation and management of the above measures.</li> </ol>	<p>C_002_Management Plans DEE decision clarification letter.</p> <p>The DEE advised in July 2018 that the revised PLRP meets the requirements of Condition 12.</p>	C
12.2	The PLRP must be submitted to the Department within 12 months of the date of approval.	<p>R_001_Annual Compliance Report 2017_Rev 1.</p> <p>This requirement was indicated to have been previously found completed in the 2016 Compliance Report (R_001).</p>	C (completed)
12.3	If the Minister approves the PLRP, the approved plans must be implemented.	<p>The key actions of the PLRP were assessed during this audit period and found that of the 18 actions identified within the PLRP:</p> <ul style="list-style-type: none"> <li>11 conformant (including 1 completed)</li> <li>seven N/A (not yet applicable)</li> </ul> <p>Refer to Appendix 3 for detail.</p> <p>During the previous audit period Lendlease began discussion with the regulators about the interpretation of the objective and target in the PLRP that were found to be non-conformant in the 2017 compliance audit.</p> <p>The PLRP was re-approved in July 2018 and was being implemented during the remainder of the audit period.</p>	C
12.4	No construction can commence in the area shown as the No Clearing area on Attachment C until the PLRP is approved by the Minister.	<p>R_001_Annual Compliance Report 2017_Rev 1.</p> <p>The PLRP was approved on 8 April 2014. The 2014 Compliance Report confirms that no clearing had occurred in the No Clearing area prior to this date (R_001).</p>	C (completed)



Condition number	Condition	Evidence/Comment	Compliance status
13.1	To offset the loss of habitat for Carnaby's Black-Cockatoo, the person taking the action must, within 12 months of the commencement of construction, provide funds to WA DEC for the acquisition, and a contribution to management of the offset described in Alkimos Lot 1004 Residential Development Mitigation and Offsets Strategy for Matters of National Environmental Significance (Eco Logical Australia, January 2012).	R_001_Annual Compliance Report 2017_Rev 1. This item has been reported as completed in the 2017 Compliance Report (R_001).	C (completed)
13.2	The offset land must be at least 126 ha of freehold land in the Gingin area and contain vegetation that has equivalent or better foraging habitat for Carnaby's Black-Cockatoo, including Banksia woodland/shrubland. Within 4 weeks of the funding being provided to the WA DEC, the person taking the action must provide written evidence to the Department of the payment.	R_001_Annual Compliance Report 2017_Rev 1. This item has been reported as completed in the 2017 Compliance Report (R_001).	C (completed)
14	Within 12 months of the commencement of construction, the person taking the action must provide the Department with a description and map clearly defining the location and boundaries of the offset property described at Condition 13, which must be accompanied with the offset attributes and a shapefile.	R_001_Annual Compliance Report 2017_Rev 1. This item has been reported as completed in the 2017 Compliance Report (R_001).	C (completed)

## 5. References

Department of the Environment (DotE) 2014, *Annual Compliance Report Guidelines*, Commonwealth of Australia, Canberra.

Lendlease, *Precinct Landscape and Revegetation Plan*, V5, May 2018.

RPS 2013, *Conservation Area Management Plan (Commonwealth), Alkimos Beach*, Rev 3, report prepared for Lendlease, July 2018.

RPS 2014, *Foreshore Management Plan (Commonwealth) Alkimos Beach*, Rev 5, report prepared for Lendlease, July 2018.

**Appendix 1**  
**Compliance with Conservation Area**  
**Management Plan**



Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
<b>Rehabilitation</b>					
CAMP 1.	Key Action's	Prepare and implement the CAMP Revegetation Management Plan (Tranen 2015).	Ongoing	Tranen has reported results of the revegetation management in biannual reports (R_002, R_003). R_002_Trannen Monitoring Revegetation Spring 2017 R_003_Trannen Monitoring Report Autumn 2018	C
CAMP 2.		Rehabilitate at least 2 ha of Carnaby's Black- Cockatoo foraging habitat. This will be undertaken in various locations within the CAMP area.	Ongoing	Rehabilitation is ongoing. Jute netting was replaced by mulching, considerable earthworks were completed to fill blowouts, and some areas were rabbit fenced. R_002_Trannen Monitoring Revegetation Spring 2017 R_003_Trannen Monitoring Report Autumn 2018	C
CAMP 3.		Tube stock will be planted at an average density of two plants per m <sup>2</sup> (range from 1.7 m <sup>2</sup> to 2 m <sup>2</sup> ) dependent on the specific plant species used.	Ongoing	Table 4 results, shaded green. Average density is 2.1m2 R_002_Trannen Monitoring Revegetation Spring 2017 R_003_Trannen Monitoring Report Autumn 2018	C
CAMP 4.		Conduct a proportion of the rehabilitation works on old vehicle access tracks. Unused vehicle tracks will be blocked at both ends to prevent future vehicle access in these areas.	Ongoing	Removal of flagging around Tuarts made redundant by revegetation of the APDMEVA, effectively closing off the vehicle tracks.	C
CAMP 5.		Weed spraying undertaken, rubbish and debris removed and disposed of appropriately.	Ongoing	Weed control by herbicide spraying and manual removal on numerous occasions throughout the audit period.	C
CAMP 6.		Brushing and / or mulching will be used to stabilise actively eroding and erosion prone locations to assist the planting of seedlings in the degraded areas of the primary dune.	Ongoing	Brushing and mulching have been used, but mostly in the FMP area. There has been no evidence of soil erosion, even after heavy rainfall.	C
CAMP 7.	KPI's	Within the Carnaby's Black-Cockatoo rehabilitation areas (post 3 years of management and monitoring) the completion criteria are: <ul style="list-style-type: none"> <li>• 70% survival post 2 years</li> <li>• 50% plant coverage (% area of visual ground cover measured by a botanist/ revegetation consultant)</li> <li>• 10% or less weed cover.</li> </ul>	Project completion	Overall progress significantly exceeds requirements, and the site is on target to become self-sustaining.  In all locations, the average plant cover was at 49.6% in Spring 2017, and towards the end of the audit period it was 67% in the CAMP. R_002_Trannen Monitoring Revegetation Spring 2017 R_003_Trannen Monitoring Report Autumn 2018	C
CAMP 8.		Closure of all old vehicle access tracks for rehabilitation.	Project completion	The growth and survival of seedlings planted in the APDMEVA is attributed to this site being ripped to greater depth than the southern tracks. R_002_Trannen Monitoring Revegetation Spring 2017 R_003_Trannen Monitoring Report Autumn 2018	C
CAMP 9.	Corrective Measures	Undertake additional rehabilitation works to meet the 2 ha rehabilitation requirements outlined in Condition 10 of the EPBC Act approval in accordance with the rehabilitation completion criteria. Undertake additional weed management i.e. Herbicide treatments within the rehabilitation areas.	Ongoing	Infill planting was conducted in some areas not covered by the monitoring quadrats as the plant cover is on the low side. R_002_Trannen Monitoring Revegetation Spring 2017 R_003_Trannen Monitoring Report Autumn 2018	C
CAMP 10.		Undertake other general maintenance activities such as further rabbit control or brushing for erosion control.	Ongoing	Water drains well into swales and there has been no evidence of soil erosion even after heavy rainfall. Some areas were rabbit fenced to assist in the control of rabbits. R_002_Trannen Monitoring Revegetation Spring 2017 R_003_Trannen Monitoring Report Autumn 2018	C

Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
CAMP 11.		Undertake additional rehabilitation and/or weed monitoring	Ongoing	Weed control will continue as scheduled, with the highest priority given to the higher profile eastern and western CAMP batters. Where weeds were present, the names of significant species were recorded, generally to a maximum of three species, to guide future weed control activities and herbicide selections. R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 12.	Monitoring	A monitoring plot of 2.5 m × 5 m will be established per rehabilitation area as well as one permanent photograph reference point at each monitoring plot.		These were established in 2015, 16 and 17. Photo reference points are recorded in the Trane Monitoring reports.	C
CAMP 13.		The rehabilitation monitoring will occur bi-annually (includes weed monitoring) each spring and autumn and maintained for a three-year period after seeding/planting within each site.	Spring/Autumn for 3 year period	Trane has reported results of the revegetation management in biannual reports (R_002, R_003). R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 14.		A monitoring report will be undertaken biannually (spring and autumn) to assess if there are any issues requiring attention. The outcomes will be recorded in the Alkimos Beach compliance report	Spring/Autumn for 3 year period	Trane has reported results of the revegetation management in biannual reports (R_002, R_003). R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 15.	4.3.1 Carnaby's Black Cockatoo Habitat – Revegetation Species	The species to be used in the Rehabilitation program (which occur locally within the primary coastal dune system) Include: <ul style="list-style-type: none"> <li>• <i>Acacia saligna</i></li> <li>• <i>Allocasuarina lehmanniana</i></li> <li>• <i>Eucalyptus gomphocephala</i>.</li> </ul>	Ongoing	Species used in rehabilitation program are listed in Table 4 and included species listed. R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 16.	4.4.1 Plant Propagation	Where possible seedlings will be propagated from the seed bank. Where seed is not available of desired species, seed and seedlings will be sourced from the nearest available provenance. Some species are grown from cuttings and where possible these will also be sourced from on site.	Ongoing	Seedlings were planted from the list of species that were found at the site. Seedling growth in the APDMEVA area has been exceptional. R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 17.	4.4.1.1 Seedling Propagation	Seedlings will be grown by nurseries that are accredited by the Nursery Industry Accreditation Scheme of Australia (NIASA)	Ongoing	Previous annual audit reports have stated that this requirement is conformant, however, it is not mentioned in the Trane monitoring reports from the current audit period.  R_001_Annual Compliance Report 2017_Rev 1	C
CAMP 18.	4.4.2 Site Protection – Prior to rehabilitation	Some tracks will be left open to allow vehicles access through the area, to discourage vehicles from creating new accesses.	Prior to rehabilitation	Informal observations have noted vehicle and motorcycles using the area. R_003_Trane Monitoring Report Autumn 2018	C
CAMP 19.		Once the plants are large enough to survive without the guards they will be removed.	Prior to rehabilitation	Tree guards were removed in previous audit period (R_001).  R_001_Annual Compliance Report 2017_Rev 1.	C
CAMP 20.		A rabbit control program will also be initiated in advance of site works to provide longer-term protection to seedlings. This will include a combination of warren destruction, rabbit haemorrhagic disease virus (RHDV) release, and Pindone baiting.	Prior to rehabilitation	Rabbit control program was completed prior to rehabilitation commencing. Management advice on 23 August 2018.	C (completed)
CAMP 21.	4.4.4 Rehabilitation Method	Planting will be carried out in winter; around June–July when the soil moisture content is optimal for seedling growth without irrigation and after the existing weeds have germinated and have been sprayed.	Winter	Planting was carried out in August and September when the soil was moist. Trane reports that generally seedlings planted later in the year, up to end September, have performed better in terms of survival and growth rates than those planted in June / July.  R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C

Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
CAMP 22.		Tube stock will be planted at an average density of two plants per m <sup>2</sup> dependent on the specific plant species used	Rehabilitation	CAMP area was planted with a density of 2.1 m <sup>2</sup> R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018 (Table 4)	C
CAMP 23.	4.4.5 Watering	The plant species to be used in the rehabilitation of the CAMP study area will be drought tolerant	Rehabilitation	Plants used in revegetation are drought tolerant, as shown in Table 4.	C
CAMP 24.	4.4.6 Seedling Planting	Seedlings will be watered before delivery to site on the day of planting to reduce the potential for transplant shock, and provided the soil is moist no other watering is considered necessary.	Prior to revegetation	Management advice on 6 November 2018 stated that seedlings were watered on the day of planting.	C
CAMP 25.	4.4.7 Seed Treatment and Direct Seeding	All seed to be utilised will be pre-treated prior to seeding to break dormancy factors. This will include aerosol smoke treatment, mechanical scarification, or hot water treatment as appropriate to individual species	Rehabilitation	Management advice on 6 November 2018 stated that there was no direct seeding during the audit period.	NA
CAMP 26.	4.4.8 Signage	Signage where appropriate will be installed. This signage (as required) will inform residents and visitors to Alkimos Beach of the rehabilitation works.	Rehabilitation	Signage sighted during site inspection on 23 August 2018. P_001 Reveg sign	C
CAMP 27.	Table 2 Key Measures and General Management Strategies	The retention of 0.15 ha of Carnaby's Black-Cockatoo vegetation (tuart trees) in the CAMP	Rehabilitation	Tuart trees covering 0.15 ha are being retained. P_002 Tuart trees	C
CAMP 28.	4.5 Rehabilitation Strategy	Re-profiling of the degraded areas of the coastal dunes will occur in all areas where scour from vehicle activity and wind funnelling has contributed to the existing alteration in the soil profiles	Rehabilitation	Re-profiling has occurred, together with placement of vegetation and boulders to reduce scouring from vehicles and restrict vehicle activity. P_003 Vehicle track management	C
CAMP 29.	4.6.2 Rehabilitation and Weed Monitoring and Performance Criteria	At the end of rehabilitation activities, a report will be provided detailing the quantities of seedlings used and seed broadcast, and any variations from the Trane Revegetation plan. This will be used as baseline data for comparison in future monitoring assessments.	Following rehabilitation	Rehabilitation activities are continuing throughout the CAMP and FMP areas. Trane has reported results of the revegetation management in biannual reports (R_002, R_003). R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 30.		Photographic records will be captured prior to construction and annually to qualitatively assess density, diversity and weed cover.	Prior to construction/ annually	Photos are included in the Trane Monitoring reports R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 31.	4.6.3 Corrective Measures	All the contingency measures listed in Table 6 will be implemented if the target seedling survival completion criteria fall below 70% in two consecutive events.	Rehabilitation	Plant survival for the CAMP is at 114%, and has been above 70% for the previous two consecutive events. Table 4 in R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 32.	Trane CAMP 3.2.5 Watering	Some tube stock will be planted with tablets / water crystals during planting to help improve survival rates	Rehabilitation	Water crystals were used with seedlings. Management advice on 23 August 2018.	C
CAMP 33.	Trane CAMP 4. Revegetation Strategy	In addition to the conservation objectives, access paths will be created within both zones for public access. In the western zone the track will be constructed to facilitate vehicle movements. In the east the track will be for pedestrian access only	Rehabilitation	Figure 1 in this report shows access areas in the CAMP.	C
CAMP 34.	Trane CAMP 4.2 Western Conservation POS	This will include both CBC foraging and habitat species as well as other non-CBC species found within the same communities. CBC species will be planted at a density of 1 plant / 10 m <sup>2</sup> using primarily <i>Allocasuarina lehmanniana</i> , and <i>Acacia saligna</i> . <i>Eucalyptus gomphocephala</i> will be planted in lesser numbers.	Rehabilitation	Species used and planting densities are in Table 4. R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 35.	Trane CAMP 5.1 Scheduling	Once initial revegetation activities are complete the site will then be monitored and maintained for a further five years to ensure that the revegetation objectives are achieved in the longer term.	Bi-annual for 5 years	Duration of maintenance is discussed in the Trane Monitoring reports R_002_Trane Monitoring Revegetation Spring 2017 R_003_Trane Monitoring Report Autumn 2018	C
CAMP 36.	Trane CAMP 5.8 Seedling Planting	A 10 g native fertiliser tablet (low in P) will be buried adjacent to each seedling (except in the base of the swale) to promote faster root and foliage development in the stages following initial transplant.	Rehabilitation	Management advice received on 6 November 2018 stated that fertilizer was used with each seedling.	C
CAMP 37.	Trane CAMP 5.9 Site and Plant Protection	It is recommended that once this boundary has been formally defined, that the extended conservation POS permanent conservation fence be installed.	Rehabilitation	Permanent fence has been installed around the conservation area. P_004 Permanent fence	C

Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
CAMP 38.	Tranen CAMP 6. Post-Installation Management	The site will be monitored and maintained for three years following initial seedling installation, to ensure the completion targets are met and will continue to be met in the future. At the end of the maintenance period, assuming all targets have been achieved, the site will be handed to the City of Wanneroo for ongoing management.	Annual	Duration of maintenance is discussed in the Tranen Monitoring reports R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 39.	Tranen CAMP 6.2 Vegetation Monitoring and Performance Criteria	One monitoring plot of 5 m × 5 m will be established per revegetation area as well as one permanent photograph reference point at each monitoring plot.	Annual	Monitoring plots have been established and results are reported. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 40.		After the third and subsequent assessments the long-term success of the revegetation operation will be indicated, and this will determine whether any further remedial works are required.	Annual	Vegetation success is discussed in the Tranen Monitoring reports R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 41.		Informal assessments will also be undertaken between formal assessments	Annual	R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 42.		Timing of the assessments will be adjusted to the appropriate stages of plant growth, which are influenced by annual weather conditions.	Annual	Deviation of required management activities are discussed and justified in the Tranen Monitoring reports. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
<b>Weed management</b>					
CAMP 43.	Key Actions	Weed control events will take place in spring of the year prior to the rehabilitation. Post the rehabilitation planting weed control will be undertaken each spring and autumn to reduce competition and optimise seedling establishment rates.	Spring/Autumn	Refer to CAMP 11	C
CAMP 44.	KPI's	10% or less weed cover	Ongoing	Weed cover is less than 1% in the CAMP R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 45.	Corrective Measures	Undertake additional weed management i.e. Herbicide treatments.	Ongoing	Weed control by herbicide spraying and manual removal on numerous occasions between Dec 17 and Mar 18. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 46.		Undertake additional rehabilitation works to meet the 2-ha rehabilitation and a portion of the supplementary planting requirements outlined in Conditions 10(a) and (b) of the EPBC Act approval in accordance with the rehabilitation completion criteria.	Rehabilitation	In 2015 the total area over which revegetation activities occurred in the CAMP was 2.08 ha. This area has been maintained during the current audit period. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 47.	Monitoring	A monitoring plot of 2.5 m × 5 m will be established per revegetation area as well as one permanent photograph reference point at each monitoring plot.	Ongoing	Refer to CAMP 12	C
CAMP 48.		The revegetation monitoring includes weed monitoring each spring and Autumn and maintained for a three-year period after seeding/planting within each site	Ongoing	Refer to CAMP 13	C
CAMP 49.	4.5.1 Weed Management	Weed control will be achieved primarily through herbicide application.		Refer to CAMP 11	C
CAMP 50.		Herbicide spraying operators will only be engaged if they: <ul style="list-style-type: none"> <li>Are appropriately qualified and licensed in herbicide application</li> <li>Have demonstrated experience in the ability to identify, and distinguish between, native and weed species</li> <li>Are familiar with the most appropriate control measures, timing, herbicides, and application rates for the target species</li> </ul>	Ongoing	Refer to CAMP 11	C
<b>Pest management</b>					
CAMP 51.	Key Actions	A combination of rabbit exclusion fencing, tree guards, and targeted rabbit control will be employed over a three-year period.	Ongoing	There was no evidence of any significant rabbit activity on any parts of the site at any time since the previous monitoring report in September 2017. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C



Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
CAMP 52.		A rabbit control program will also be initiated in advance of site works to provide longer term protection to seedlings. This will include a combination of warren destruction, rabbit haemorrhagic disease virus (RHDV) release, and Pindone baiting.	Prior to rehabilitation	Completed prior to the audit period. R_001_Annual Compliance Report 2017_Rev 1	C (completed)
CAMP 53.	KPI's	Installation of rabbit exclusion fencing	Ongoing	Refer to CAMP 10	C
CAMP 54.		Where appropriate, tube stock will be fitted with a plastic guard.	Ongoing	This was not practiced during the audit period, as appropriate. Plastic guards have been used in previous audit periods where necessary. Management advice on 23 August 2018.	C
CAMP 55.	Corrective Measures	Implement additional rabbit control measures including further fencing or biological controls based on the following observations: <ul style="list-style-type: none"> <li>• Presence of rabbits – visual observation</li> <li>• Evidence of rabbits eating the planted seedlings and destroying the tree guards</li> <li>• Rabbit warrens</li> </ul>	Ongoing	Refer to CAMP 52.	C
CAMP 56.		Re-plant seedlings / revegetate areas impacted by rabbits to meet the EPBC Act Ministerial conditions 10(a) and (b)	Ongoing	Maintenance continued in all areas since installation completion to ensure the completion criteria will be delivered at the conclusion of the project. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 57.		Repair rabbit fencing and replace damaged tree guards, as required	Ongoing	Refer to CAMP 52.	C
CAMP 58.	Monitoring	The key monitoring points will focus on the impacts to planted Carnaby's Black-Cockatoo habitat seedlings, tree guards and ensuring the rabbit fence remains intact.	Ongoing	Tranen has reported results of the revegetation monitoring in biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 59.		Evidence of the presence of rabbits such as visual observations of the seedlings being eaten, rabbit warrens in the local area and opportunistically foxes and feral cats will also be monitored and reported as part of the rehabilitation monitoring program.	Ongoing	Refer to CAMP 52.	C
CAMP 60.		The monitoring report will be submitted to Lendlease following each formal monitoring event. The outcomes will be recorded in the Alkimos Beach compliance report	Ongoing	Management advice on 23 August, stated that Lendlease has received Tranen Monitoring reports.	C
CAMP 61.	4.7.3.1 Rabbits	The guards will be rigid corflute held in place with hardwood stakes.	Ongoing	Refer to CAMP 55.	C
CAMP 62.	Table 8 Feral Pest Corrective Measures	Fox and cat sightings	Ongoing	Informal opportunistic sightings of foxes and cats were conducted and no sightings were recorded. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 63.		4.7.6 Monitoring and Reporting	Opportunistically foxes and feral cats will also be monitored and reported as part of the rehabilitation monitoring program.	Ongoing	Refer to CAMP 63
<b>Bushfire management</b>					
CAMP 64.	Key Actions	No rubbish or vegetation will be burnt on site	Ongoing	Management advice on 23 August 2018, states there has been no rubbish or vegetation burnt on site.	C
CAMP 65.		Construct the perimeter roads and pathways between the CAMP and residential areas to act as the key firebreak(s)	Ongoing	Figure 1 in this report shows access areas in the CAMP.	C
CAMP 66.		During construction works semi-permanent fencing will be installed around the CAMP / Conservation POS boundary interface with the road and urban development (subdivision) works to prevent access into the revegetated areas and the broader CAMP area.	Ongoing	The CAMP area is fenced. P_005 CAMP fence	C
CAMP 67.	KPI's	Provide records of any fires in the CAMP area to the City of Wanneroo / Department of Fire and Emergency Services (DFES).	Ongoing	Management advice on 23 August 2018, states there has been fire on site during the audit period.	C
CAMP 68.		Evidence of a semi-permanent fencing installed along the perimeter of the CAMP area adjacent to the constructed road and urban development.	Ongoing	Refer to CAMP 67.	C
CAMP 69.	Corrective Actions	If fire occurs within the existing and rehabilitation areas – re-planting of Carnaby's Black-Cockatoo habitat will be required	Ongoing	Not applicable	N/A
CAMP 70.		Repair damage to the fence as required.	Ongoing	Not applicable	N/A
CAMP 71.	Monitoring	Any bushfire event in the foreshore will be reported to DFES and the City of Wanneroo.	Ongoing	Not applicable	N/A
CAMP 72.		The annual monitoring report of the rehabilitation area will also include details (e.g. Dates, time, location and duration) of any fire events.	Ongoing	Management advice on 23 August 2018, states there has been no fire on site during the audit period.	C
CAMP 73.	Table 9 Bushfire Management Key Actions	No rubbish or vegetation will be burnt on the project site	Ongoing	Refer to CAMP 65.	C
CAMP 74.		Construct perimeter roads and pathways between the CAMP and residential areas to act as the key firebreak(s)	Ongoing	Refer to CAMP 66.	C
<b>Erosion control</b>					
CAMP 75.	Key Actions	Undertake rehabilitation of bare/open areas in accordance with the CAMP Revegetation Management Plan (Tranen 2015)	Ongoing	Refer to CAMP 6	C

Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
CAMP 76.		Conservation fencing to the City of Wanneroo's requirements will be installed along the borders of the Conservation POS which is adjacent to the Alkimos Beach subdivision and the eastern and western roads which bound the Conservation POS prior to handover to the City of Wanneroo.	At handover	The Conservation POS has not yet been handed to the CoW.	C
CAMP 77.	Corrective Actions	Undertake additional brush / mulch as required over rehabilitation areas, as required.	Ongoing	Refer to CAMP 6	C
CAMP 78.	Monitoring	Monitoring for erosion will occur as part of the Carnaby's Black-Cockatoo Existing and rehabilitation foraging areas bi-annual monitoring program	Ongoing	Tranen has reported results of the monitoring of erosion in biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 79.	4.9.3 Management Overview	Brush will be spread over the steeper sections of the tracks, and mulch spread to a depth of 50 mm to stabilise over the balance of the sand to prevent the loss of further soil from wind erosion.	Ongoing	There has been no evidence of soil erosion, even after heavy rainfall. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 80.		All vehicle tracks in the CAMP will be blocked at both ends using large boulders or logs to prevent further vehicle access.	Ongoing	Many vehicle tracks have been blocked using to prevent vehicle access. P_003 Vehicle track management	C
CAMP 81.	Tranen CAMP 5.3 Re-profiling and Surface Stabilisation	Surface stabilisation is required in all disturbed sections of the main blowout and on all the completely degraded vehicle access tracks within the zone following re-profiling. This will be achieved through the use of a composted coarse mulch spread to a depth of 75 mm.	Ongoing	The main blowout area is in the FMP. Blowouts in the CAMP area are being managed. There has been no evidence of soil erosion, even after heavy rainfall. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
<b>People (access) management</b>					
CAMP 82.	Monitoring	Monitoring for unauthorised access will occur as part of the rehabilitation monitoring	Ongoing	Tranen has reported results of the monitoring of unauthorised access in biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
CAMP 83.	4.10.3 Management Overview	The access pathways will be located adjacent to the CAMP area outside of the existing Carnaby's Black-Cockatoo and rehabilitation areas.	Ongoing	Refer to CAMP 33.	C
CAMP 84.	4.10.5 Corrective Measures	The signage if damaged will be repaired or replaced – only for the proposed paths that go through or near the rehabilitation areas	Ongoing	No evidence of damage to signs during the site inspection.	C
<b>Compliance reporting</b>					
CAMP 85.	5. Compliance Reporting	Will publish a compliance report every 12 months from the commencement of the construction works.	Annual	R_001_Annual Compliance Report 2017_Rev 1 C_001_Annual Compliance Report 2017 to DEE  Email evidence shows the DEE was notified on 23 November 2017 (C_001) that the 2017 Compliance Report (R_001) was published on the Alkimos Beach website.	C
CAMP 86.		The compliance report will contain a Conservation POS (CAMP) area Carnaby's Black- Cockatoo habitat rehabilitation section which will include the following: <ul style="list-style-type: none"> <li>• Rehabilitation completion criteria and weed monitoring</li> <li>• Revegetation and weed contingency actions if required</li> <li>• Erosion monitoring within the rehabilitation area</li> <li>• Observations of feral pests</li> <li>• Temporary fencing and signage of the rehabilitation area</li> <li>• Fire incidences and the response.</li> </ul>	Annual	The 2017 ACR contained a CAMP performance section, as stated.  R_001_Annual Compliance Report 2017_Rev 1	C
<b>Land ownership and funding</b>					
CAMP 87.	5.1 Land Ownership and Funding	The long-term management and responsibility of the Alkimos Beach CAMP study area will be the City of Wanneroo.	Project Completion	Management advice acknowledged long term responsibility on 23 August 2018.	C

**Appendix 2**  
**Compliance with Foreshore**  
**Management Plan**



Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
<b>Carnaby's Black Cockatoo Habitat – Revegetation Species</b>					
FMP 1	<b>4.2.2 Revegetation Species</b>	A range of native plant species will be used in this revegetation program for the foreshore area. <i>The proposed native species to be used for rehabilitation purposes in the foreshore area are outlined in Tranen's FMP Revegetation Management Plan in Appendix 2.</i>	NA	Tranen has reported the list of native plants used in the revegetation management in biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
FMP 2		A range of overstorey and understorey species will be planted in order to provide diversity to the vegetation structure and habitat. The proposed native species to be used for rehabilitation purposes in the foreshore area are outlined in Appendix 2.	NA	The list of species used in revegetation during the audit period are listed in Table 3, consisting of a range of overstorey and understorey species. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
<b>Plant Propagation</b>					
FMP 3	<b>4.3.1 Plant Propagation</b>	Where possible seedlings will be propagated from the seed bank. Where seed is not available of desired species, seed and seedlings will be sourced from the nearest available provenance.	NA	Seedlings used were propagated from the seed bank obtained during previous audit periods with species listed in Table 3 of the Tranen monitoring reports. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
<b>Seedling Propagation</b>					
FMP 4	<b>4.3.1.1 Seedling Propagation</b>	Seedlings will be grown by nurseries that are accredited by the Nursery Industry Accreditation Scheme of Australia (NIASA)		Management advised on 23 August 2018 that seedlings were grown in a NIASA accredited nursery.	C
<b>Site Protection</b>					
FMP 5	<b>4.3.2 Prior to Revegetation</b>	Old vehicle access tracks are to be blocked at both ends by pushing up soil and placing large objects such as limestone boulders or large logs in front of the mounds.	NA	Vegetation and boulders have been placed to reduce scouring from vehicles and restrict vehicle activity. P_003 Vehicle track management	C (completed)
FMP 6		A combination of rabbit exclusion fencing, tree guards, and targeted rabbit control will be employed.	NA	Areas within the foreshore area were rabbit fenced to assist in the control of rabbits. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
FMP 7		Semi-permanent fencing will be installed adjacent to roads and urban subdivision areas during construction.	NA	The foreshore area is fenced. P_006_Fences	C
FMP 8		All construction activities will be restricted to the subdivision areas and will avoid the rehabilitation area.	NA	Site inspection on 23 August 2018, all construction activities are restricted to the subdivision areas.	C
<b>Revegetation Site Preparation</b>					
FMP 9	<b>4.3.3 Revegetation Site Preparation</b>	To maximise the potential for revegetation success, the area(s) that are subject to revegetation will be prepared in the following manner: <ul style="list-style-type: none"> <li>weed spraying commenced, rubbish and debris will be removed and disposed of appropriately.</li> </ul>	NA	Tranen has reported the site preparation management activities in biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
FMP 1		<ul style="list-style-type: none"> <li>brushing and/or mulching may be used to assist stabilising soil in erosion prone locations as required.</li> </ul>	NA	Brushing and mulching have been used in the FMP area. There has been no evidence of soil erosion, even after heavy rainfall.	C
<b>Revegetation Method</b>					
FMP 1	<b>4.3.4 Revegetation Method</b>	Revegetation species will be subdivided into four categories: <ol style="list-style-type: none"> <li>Beach grasses and herbaceous species adopted for the most exposed locations.</li> <li>Semi-stable dune colonisers adapted to partially protected areas.</li> <li>Plants of protected dunal situations.</li> <li>Plants of protected well stabilised and vegetated areas.</li> </ol>	NA	Tranen has reported the locations for species in Table 3 of the biannual reports, detailing the four categories as required (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
<b>Scheduling</b>					
FMP 1	<b>Scheduling</b>	Tube stock used in the revegetation program will be sourced from local accredited nurseries.	NA	Refer to FMP 3 and FMP 4.	C
FMP 1		Planting will be carried out in winter; around June-July when the soil moisture content is high enough for optimum seedling growth without irrigation and after the existing weeds have germinated and have been sprayed.	In winter; around June-July	Planting was carried out in August and September when the soil was moist. Tranen reports that generally seedlings planted later in the year, up to the end of September, have performed better in terms of survival and growth rates than those planted in June / July. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
FMP 1		Each tube stock will be planted with a plastic guard, if required, to prevent rabbits feeding on plant stock and to protect from strong winds	NA	This was not practiced during the audit period, as appropriate. Plastic guards have been used in previous audit periods where necessary. Management advice on 23 August 2018.	C
FMP 1		Tube stock will mostly be planted at an average density of two plants per m <sup>2</sup> dependant on the specific plant species used. The planting density can range from 1.7 m <sup>2</sup> to 2 m <sup>2</sup> .	NA	Seedlings were planted with an average density of 2.9 m <sup>2</sup> in the FMP area.	C
FMP 1		Rabbit guards will be used (if required) for tube stocks in the revegetation areas.	NA	Refer to FMP 14.	C
FMP 1	<b>Watering</b>	Some tube stock will be planted with tablets/water crystals during planting to help improve survival rates. The coastal plant species to be used in the rehabilitation of areas within the ROS will be drought tolerant and therefore it is not anticipated these natives will required irrigation or extensive hand watering.	NA	Water crystals were used with seedlings. Management advice on 23 August 2018.	C
FMP 1	<b>Seedling Planting</b>	Seedlings will be directly planted using planting tubes. Seedlings will be watered before delivery to site on the day of planting.	NA	Management advice on 6 November 2018 stated that seedlings were watered on the day of planting to improve plant survival.	C

Audit code	Activity	Action	Timing	Evidence/comment	Conformance status																				
FMP 1	<b>Seed treatment and Direct Seeding</b>	All seed to be utilised will be pre-treated prior to seeding to break dormancy factors. This will include aerosol smoke treatment, mechanical scarification, or hot water treatment as appropriate to individual species. Seed will then be combined with a bulking agent to facilitate even distribution across the site. Hand broadcasting will be the application technique as this will permit even dispersal of all seed sizes.	NA	Management advice on 6 November 2018 stated that there was no direct seeding during the audit period.	NA																				
FMP 2	<b>Signage</b>	To assist in preventing unauthorised access and trampling of revegetation efforts, signage where appropriate will be installed.	NA	Signage sighted during site inspection on 23 August 2018. P_001 Reveg sign	C																				
FMP 2	<b>Weed Management</b>	If weeds are considered an issue within the rehabilitation area, a weed spraying program to control weed species, prior to installation of seeds and seedlings will be implemented.	Spring prior to initial rehabilitation and spring and autumn post planting	Weed control (both spraying and manual removal) continues to be undertaken as per the FMP requirements. Tranen has reported weed management activities in biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C																				
FMP 2		Selective herbicides (i.e. grass or broadleaf-specific) will be favoured over general knockdown herbicides.	NA	Where weeds were present, the names of significant species were recorded, generally to a maximum of three species, to guide future weed control activities and herbicide selections. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C																				
FMP 2		To ensure that off-target damage is minimised, herbicide spraying operators will only be engaged if they: <ul style="list-style-type: none"> <li>are appropriately qualified and licensed in herbicide application</li> <li>have demonstrated experience in the ability to identify, and distinguish between, native and weed species</li> <li>are familiar with the most appropriate control measures, timing, herbicides, and application rates for the target species</li> </ul>	NA	Tranen is qualified to apply herbicides and manage revegetation and have been involved in the project for several years.	C																				
FMP 2		Weed spraying will be undertaken to manage the abundance and spread of weed species into and within the revegetation area if required.	Contingency	Weed control by herbicide spraying and manual removal occurred on numerous occasions between April and Nov 17, then again between Dec 2017 and March 2018. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C																				
<b>Post-rehabilitation Management</b>																									
FMP 2	<b>4.5 Post-rehabilitation Management</b>	Rehabilitation areas will be monitored and maintained for five years following initial seedling installation	5 years post revegetation	Tranen was contracted in June 2015 to perform rehabilitation activities and will continue monitoring and maintenance in the foreshore area for five years. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018.	C																				
<b>Completion Criteria</b>																									
FMP 2	<b>4.5.1 Completion Criteria</b>	If completion criteria are not met, further infill planting will be required. <table border="1" data-bbox="507 1157 1546 1444"> <thead> <tr> <th>Year after Planting</th> <th>Year 1</th> <th>Year 2</th> <th>Spring 2018 (mean)</th> </tr> </thead> <tbody> <tr> <td>Survival (established plant density both planting and seeding)</td> <td>90%</td> <td>70%</td> <td>120%</td> </tr> <tr> <td>Average plant density (plants/m2)</td> <td>1.7 to 2</td> <td>1.7 to 2</td> <td>2.8</td> </tr> <tr> <td>Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)</td> <td>25%</td> <td>50%</td> <td>53</td> </tr> <tr> <td>Weeds coverage</td> <td>No greater than 10% cover</td> <td>No greater than 10% cover</td> <td>&lt;1</td> </tr> </tbody> </table>	Year after Planting	Year 1	Year 2	Spring 2018 (mean)	Survival (established plant density both planting and seeding)	90%	70%	120%	Average plant density (plants/m2)	1.7 to 2	1.7 to 2	2.8	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	53	Weeds coverage	No greater than 10% cover	No greater than 10% cover	<1	NA	Further infill planting has been conducted in the foreshore area where the plant coverage and species richness indicate that revegetation is required. In particular, the drainage channels on the north beach access road were not available for planting when the main road batters were planted, so these have slightly lower than average plant densities than other areas. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018.	C
Year after Planting	Year 1	Year 2	Spring 2018 (mean)																						
Survival (established plant density both planting and seeding)	90%	70%	120%																						
Average plant density (plants/m2)	1.7 to 2	1.7 to 2	2.8																						
Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	53																						
Weeds coverage	No greater than 10% cover	No greater than 10% cover	<1																						
<b>Rehabilitation and Weed Monitoring and Performance Criteria</b>																									
FMP 2	<b>4.5.2 Rehabilitation and Weed Monitoring</b>	At the end of rehabilitation and planting activities, a report will be provided detailing the quantities of seedlings installed and seed broadcast, and any variations from the Tranen FMP revegetation plan. This will be used as baseline data for comparison in future monitoring assessments.	At the end of planting	Rehabilitation is ongoing.	NA																				
FMP 2		The revegetation areas will be monitored biannually (includes weed monitoring) each spring and autumn, and maintained for a five-year period after installation (months are nominated rather than specific, as plant growth cycles are dependent on weather).	Biannually (Spring and Autumn) for 5 years	Tranen has reported the rehabilitation management activities in biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C																				
FMP 2		A monitoring report will be undertaken following each formal monitoring event, to assess if there are any issues requiring attention.	Following each formal monitoring event	Tranen has reported the rehabilitation management activities in biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C																				
FMP 3		One monitoring plot, of 2.5 m x 5 m will be established per revegetation area as well as one permanent photograph reference point at each monitoring plot.	NA	Tranen report on monitoring plots and permanent photo reference points in the biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C																				
FMP 3		Photographic records will be captured prior to construction and annually to qualitatively assess density, diversity and weed cover.	Prior to construction and annually	Refer to FMP 30	C																				

Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
FMP 3		The first assessment in spring will assess the developing threats. the stabilisation of each area and the short-term survival of the seedlings and weed cover. Any problems will be identified early so that comprehensive treatment(s) of the issue can be undertaken, and additional seedlings propagated if required.	Spring	This occurred prior to the audit period.	C (completed)
FMP 3		The second assessment in the following Spring will determine if there are any losses over the dry summer period, and this will form the basis for the maintenance winter program.	In the following Spring	Tranen has reported the rehabilitation management activities in Spring 2017. R_002_Tranen Monitoring Revegetation Spring 2017	C
FMP 3		The third and subsequent rehabilitation assessments will occur in Autumn and then the subsequent Spring.	In the following Autumn then Spring	Tranen has again reported the rehabilitation management in March 2018. R_003_Tranen Monitoring Report Autumn 2018	C
FMP 3		Further remedial works may include additional revegetation works, weed management, rabbit control, additional monitoring.	Following assessments	Refer to FMP 26 for remedial works	C
<b>Corrective Measures</b>					
FMP 3	<b>4.5.3 Corrective Measures</b>	Monitoring and management corrective measures that may be required in the five years include but are not limited to the following: <ul style="list-style-type: none"> <li>Re-brushing or re-mulching areas</li> <li>Ongoing weed management</li> <li>Replanting in areas</li> <li>Tree guard repair/replacement</li> <li>Fence, sign and pathway maintenance</li> </ul>	In the five years (biannual monitoring)	Tranen has conducted the following management activities throughout the audit period: <ul style="list-style-type: none"> <li>Re-brushing and re-mulching areas</li> <li>Weed management</li> <li>Infill planting where considered necessary</li> <li>Fence, sign and pathway maintenance</li> <li>Rabbit fencing.</li> </ul> Plastic guards were not used during the audit period, as appropriate. Plastic guards have been used in previous audit periods where necessary. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
FMP 3		Where the % weed species cover exceeds the 10% cover limit, additional weed spraying will be undertaken to reduce the abundance and spread of weed species into and within the FMP area.	Summer	The average weed cover does not exceed 1%, however additional weed control has occurred to reduce weeds where necessary.	C
FMP 3		All the contingency measures listed in Table 5 (of FMP) will be implemented if the target seedling survival completion criteria fall below 70% in two consecutive events.	Following assessments	Seedling survival is above 70% in two consecutive events.	C
<b>Feral Pests</b>					
FMP 3	<b>4.6 Feral Pests</b>	A combination of rabbit exclusion fencing, tree guards, and targeted rabbit control will be employed over a five year period. Where appropriate, seedlings located outside of these areas will be protected with tree guards. The guards will be rigid corflute held in place with hardwood stakes. A rabbit control program will also be initiated in advance of site works to provide longer term protection to seedlings. This will include a combination of warren destruction, rabbit haemorrhagic disease virus (RHDV) release, and Pindone baiting. Each tube stock will be planted with a plastic guard to prevent rabbits feeding.	Over 5 years	Refer to FMP 36. Plastic guards were not used during the audit period, as appropriate. Plastic guards have been used in previous audit periods where necessary. Management advice on 23 August 2018.	C
FMP 4		Observe for evidence of feral animals during the revegetation monitoring (biannually).	Biannually, during monitoring events	Tranen report on feral animal opportunistic monitoring in the biannual reports (R_002, R_003). R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
FMP 4		Feral Pest Corrective Measures: Table 7 Implement additional rabbit control measures including fencing and biological controls	Contingency	Areas within the foreshore area were rabbit fenced to assist in the control of rabbits. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C
FMP 4		Re-plant seedlings / revegetate areas impacted by rabbits	Contingency	Infill planting has occurred where necessary.	C
FMP 4		Repair rabbit exclusion fencing and replace damaged tree guards.	Contingency	Refer to FMP 41.	C
<b>Monitoring and Reporting</b>					
FMP 4	<b>4.6.6 Monitoring and Reporting</b>	The revegetation areas will be monitored biannually each spring and autumn and maintained for a five year period after installation within each site.	Biannually (Spring and Autumn) for 5 years	Refer to FMP 29	C
FMP 4		Foxes, rabbits and feral cats as part of the revegetation monitoring program will also be monitored and if observed reported.	NA	Refer to FMP 40	C
FMP 4		The monitoring report will be submitted to Lend Lease following each formal monitoring event, and will focus on the impacts to planted seedlings, tree guards and ensuring the rabbit fence remains intact.	After monitoring event	Tranen submit their biannual reports to Lendlease. Management advice on 23 August 2018.	C
<b>Bushfire Management Key Actions</b>					
FMP 4	<b>Table 8: Bushfire Management Key Actions</b>	No rubbish or vegetation will be burnt on site.	NA	Management advice on 23 August 2018, states there has been no rubbish or vegetation burnt on site.	C
FMP 4		Construct perimeter roads and pathways between the ROS and residential areas to act as the key firebreak(s)	NA	Figure 1 in Appendix 1 of the biannual monitoring reports indicate the roads and pathways in the FMP area that can act as firebreaks. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C



Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
FMP 4		Conservation fencing to the City of Wanneroo's requirements will be installed at the boundary of the ROS and the roads and urban subdivision adjacent to the Carnaby's Black Cockatoo rehabilitation areas. This includes fencing the access paths and carpark adjacent to the Carnaby's Black-Cockatoo rehabilitation areas prior to handover to the City of Wanneroo	NA	Fencing has been installed around the perimeter of the ROS. However, the Conservation ROS has not yet been handed to the CoW.	C
FMP 5		Corrective measure will include replanting Carnaby's Black Cockatoos habitat and repair damage to fences as required.	NA	Refer to FMP 26	C
<b>Monitoring and Reporting</b>					
FMP 5	<b>4.7.6 Monitoring and Reporting</b>	Any bushfire event in the foreshore will be reported to DFES and the City of Wanneroo.		Management advice on 23 August 2018, states there has been no fire on site during the audit period.	C
FMP 5		The annual monitoring report will include details of fire events.	After monitoring event	Refer to FMP 51.	C
FMP 5		The monitoring of the Carnaby's Black-Cockatoo existing and rehabilitation foraging areas will be undertaken biannually each spring and autumn and maintained for a five-year period.	Each Spring and Autumn	Refer to FMP 29	C
<b>Erosion Control Key Actions</b>					
FMP 5	<b>5.2.10 Table 9: Erosion Control Key Actions</b>	Placement of brush/mulch over revegetation areas susceptible to potential erosion to a depth of 50 mm.	NA	Refer to FMP 36	C
FMP 5		Undertake revegetation of bare/open areas in accordance with the FMP Revegetation Management Plan (Tranen 2015)	NA	Refer to FMP 36	C
FMP 5		Installation of temporary fencing in/around the revegetation area.	NA	Refer to FMP 36	C
FMP 5		A proportion of the rehabilitation works will be undertaken on old vehicle access tracks. These tracks are to be blocked at both ends to prevent future vehicle access in these areas.	NA	Closing of 4WD drive tracks in the foreshore area using boulders and fencing were conducted during a prior audit period. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C (completed)
<b>Monitoring and Reporting</b>					
FMP 5	<b>4.8.6 Monitoring and Reporting</b>	Monitoring of the erosion / open areas in the revegetation area will be biannually each spring and autumn and maintained for a five year period as part of the revegetation monitoring.	Biannually (Spring and Autumn) for 5 years	Refer to FMP 29	C
FMP 5		The monitoring report will be submitted to Lendlease following each formal monitoring event, to assess if there are any erosion issue(s) requiring attention.	After monitoring event	Tranen submit their biannual reports to Lendlease. Management advice on 23 August 2018.	C
<b>Access Management: Beach Access Key Actions</b>					
FMP 6	<b>4.9 Table 12: Beach Access Key Actions</b>	Closure of old vehicle access tracks for rehabilitation in accordance with the FMP Revegetation Management Plan (Tranen 2015).	Post construction	Refer to FMP 57	C
FMP 6		Conservation fencing to the City of Wanneroo's requirements will be installed at the boundary of the ROS and the roads and urban subdivision adjacent to the Carnaby's Black Cockatoo rehabilitation areas. This includes fencing the access paths and carpark adjacent to the rehabilitation areas prior to handover to the City of Wanneroo.	NA	Refer to FMP 49	C
FMP 6		Undertake additional rehabilitation work of areas impacted from any unauthorised access within the revegetation areas.	NA	Damage to a fence from unauthorised access near the north beach path occurred in January 2018, however there was minimal damage to vegetation. The fence was repaired. R_003_Tranen Monitoring Report Autumn 2018	C
FMP 6		Undertake additional weed management if the monitoring determines the weed cover is above the 10% cover	NA	Refer to FMP 37	C
FMP 6		Ensure the fences if damaged are repaired or replaced.	NA	Refer to FMP 62	C
<b>Monitoring and Reporting</b>					
FMP 6	<b>4.9.6 Monitoring and Reporting</b>	Monitoring for unauthorised access will occur as part of the rehabilitation monitoring (biannually spring and autumn) which will be occur for a five-year period.	Annually until handover to the City of Wanneroo	Tranen report on unauthorised access in the biannual reports (R_003). R_003_Tranen Monitoring Report Autumn 2018	C
FMP 6		The monitoring report will be submitted to Lendlease following each formal monitoring event, to assess if there are any erosion issue(s) requiring attention.	After monitoring event	Tranen submit their biannual reports to Lendlease. Management advice on 23 August 2018.	C
FMP 6	<b>5.0 Monitoring and Reporting Measures</b>	To satisfy Condition 3 of the EPBC Act approval, Lend Lease will publish a compliance report every 12 months from the commencement of the construction works.	Annually	The DEE was notified via email on 23 November 2017 that the 2017 Compliance Report (R_001) was published on the Alkimos Beach website (C_001). R_001_Annual Compliance Report 2017_Rev 1 C_001_Annual Compliance Report 2017 to DEE	C



Audit code	Activity	Action	Timing	Evidence/comment	Conformance status
FMP 6		<p>The compliance report will contain a ROS area Carnaby's Black-Cockatoo habitat rehabilitation section which will include the following:</p> <ul style="list-style-type: none"> <li>• rehabilitation completion criteria and weed monitoring</li> <li>• revegetation and weed contingency actions if required</li> <li>• erosion monitoring within the rehabilitation area</li> <li>• observations of feral pests</li> <li>• temporary fencing and signage of the rehabilitation area</li> <li>• fire incidences and the response.</li> </ul>	Annually	<p>The 2017 compliance report contains the relevant Carnaby's Black Cockatoo habitat rehabilitation section.</p> <p>R_001_Annual Compliance Report 2017_Rev 1</p>	C
<b>Land Ownership and Funding</b>					
FMP 69.	<b>5.1 Land Ownership and Funding</b>	All foreshore access and community infrastructure works will be undertaken by Lendlease, and then maintained for a period of five years after practical completion.	For a period of five years.	Refer to FMP 36. Tranen is conducting maintenance on behalf of Lendlease for a five year period.	C



**Appendix 3**  
**Compliance with Precinct Landscape**  
**and Rehabilitation Plan**



Audit Code	Action	Timing	Evidence/comment	Conformance Status																																										
<b>Section 3 Planting schedule</b>																																														
PLRP 1	<p><b>Table 3 Objectives, targets and indicators – replication of 5 ha of Carnaby's habitat</b></p> <table border="1"> <thead> <tr> <th>Objective</th> <th>Target</th> <th>Performance indicator</th> </tr> </thead> <tbody> <tr> <td>Establish equivalent of greater than 5 ha of Carnaby's Black- Cockatoo habitat within the project area</td> <td>Plant and establish &gt;2,500 CBC habitat trees within the project area to create an equivalent of greater than 5ha of Carnaby's Black-Cockatoo habitat by handover of final stage to the City of Wanneroo with a 90% survival rate.</td> <td>Number of Carnaby's Cockatoo species identified in annual monitoring (number, species and location). 90% survival rate achieved.</td> </tr> <tr> <td>At least 50% of plantings of trees and shrubs in the equivalent &gt;5 ha Carnaby's Black-Cockatoo habitat area must consist of plant species known to be primary feeding plants for Carnaby's Black Cockatoos.</td> <td>&gt;50% of trees and shrubs planted in the &gt; 5 ha Carnaby's Black-Cockatoo habitat, are plant species known to be primary feeding plants for Carnaby's Black-Cockatoo, with a 90% survival rate.</td> <td>Number of Carnaby's Black-Cockatoo species identified in annual monitoring (number, species and location).</td> </tr> </tbody> </table>	Objective	Target	Performance indicator	Establish equivalent of greater than 5 ha of Carnaby's Black- Cockatoo habitat within the project area	Plant and establish >2,500 CBC habitat trees within the project area to create an equivalent of greater than 5ha of Carnaby's Black-Cockatoo habitat by handover of final stage to the City of Wanneroo with a 90% survival rate.	Number of Carnaby's Cockatoo species identified in annual monitoring (number, species and location). 90% survival rate achieved.	At least 50% of plantings of trees and shrubs in the equivalent >5 ha Carnaby's Black-Cockatoo habitat area must consist of plant species known to be primary feeding plants for Carnaby's Black Cockatoos.	>50% of trees and shrubs planted in the > 5 ha Carnaby's Black-Cockatoo habitat, are plant species known to be primary feeding plants for Carnaby's Black-Cockatoo, with a 90% survival rate.	Number of Carnaby's Black-Cockatoo species identified in annual monitoring (number, species and location).	Revegetation - during revegetation	Currently 22% of plantings across 2.4 ha of identified POS areas (Parks A, D, F,G,S,U) that have been designated for CBC habitat are CBC species. Up to 57% of species planted across 5 ha of current and future POS areas will be CBC species. D_001_PLRP CBC Tracking Sheet Table 3 and 4 in Tranen monitoring reports show list of species and locations used. R_002_Tranen Monitoring Revegetation Spring 2017 R_003_Tranen Monitoring Report Autumn 2018	C																																	
Objective	Target	Performance indicator																																												
Establish equivalent of greater than 5 ha of Carnaby's Black- Cockatoo habitat within the project area	Plant and establish >2,500 CBC habitat trees within the project area to create an equivalent of greater than 5ha of Carnaby's Black-Cockatoo habitat by handover of final stage to the City of Wanneroo with a 90% survival rate.	Number of Carnaby's Cockatoo species identified in annual monitoring (number, species and location). 90% survival rate achieved.																																												
At least 50% of plantings of trees and shrubs in the equivalent >5 ha Carnaby's Black-Cockatoo habitat area must consist of plant species known to be primary feeding plants for Carnaby's Black Cockatoos.	>50% of trees and shrubs planted in the > 5 ha Carnaby's Black-Cockatoo habitat, are plant species known to be primary feeding plants for Carnaby's Black-Cockatoo, with a 90% survival rate.	Number of Carnaby's Black-Cockatoo species identified in annual monitoring (number, species and location).																																												
PLRP 2	<p>Table 4 provides an indicative Precinct by Precinct breakdown of the Carnaby's Cockatoo tree targets (refer to <b>Appendix C</b> for a map) to track progress against the ultimate target described in Table 3, across all precincts. These are interim targets for monitoring purposes only; the total of 2,500 trees remains the ultimate compliance target.</p> <p><b>Table 4: Precinct breakdown of Carnaby's Cockatoo tree targets</b></p> <table border="1"> <thead> <tr> <th>Precinct</th> <th>Area (ha)</th> <th>Carnaby's Tree Target</th> <th>Target &gt; 5 ha CBC habitat (ha)</th> <th>Target &gt;2,500 CBC species</th> <th>CBC primary feeding plants</th> <th>Non-CBC primary feeding plants</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>50.30</td> <td>1,000</td> <td>1.483</td> <td>1,594</td> <td>10,840</td> <td>40,911</td> </tr> <tr> <td>2</td> <td>47.87</td> <td>500</td> <td>0.911</td> <td>1,968</td> <td>3,810</td> <td>14,072</td> </tr> <tr> <td>3</td> <td>32.51</td> <td>500</td> <td>1.124</td> <td>1,846</td> <td>36,159</td> <td>9,040</td> </tr> <tr> <td>4</td> <td>43.89</td> <td>500</td> <td>1.532</td> <td>1,580</td> <td>41,011</td> <td>10,253</td> </tr> <tr> <td colspan="3"><b>TOTAL</b></td> <td><b>5.051</b></td> <td><b>6,988</b></td> <td><b>91,820 (55%)</b></td> <td><b>74,276 (45%)</b></td> </tr> </tbody> </table>	Precinct	Area (ha)	Carnaby's Tree Target	Target > 5 ha CBC habitat (ha)	Target >2,500 CBC species	CBC primary feeding plants	Non-CBC primary feeding plants	1	50.30	1,000	1.483	1,594	10,840	40,911	2	47.87	500	0.911	1,968	3,810	14,072	3	32.51	500	1.124	1,846	36,159	9,040	4	43.89	500	1.532	1,580	41,011	10,253	<b>TOTAL</b>			<b>5.051</b>	<b>6,988</b>	<b>91,820 (55%)</b>	<b>74,276 (45%)</b>	Revegetation - during planning	Lendlease has planned to achieve these targets over the next few years. D_001_PLRP CBC Tracking Sheet	C
Precinct	Area (ha)	Carnaby's Tree Target	Target > 5 ha CBC habitat (ha)	Target >2,500 CBC species	CBC primary feeding plants	Non-CBC primary feeding plants																																								
1	50.30	1,000	1.483	1,594	10,840	40,911																																								
2	47.87	500	0.911	1,968	3,810	14,072																																								
3	32.51	500	1.124	1,846	36,159	9,040																																								
4	43.89	500	1.532	1,580	41,011	10,253																																								
<b>TOTAL</b>			<b>5.051</b>	<b>6,988</b>	<b>91,820 (55%)</b>	<b>74,276 (45%)</b>																																								
PLRP 3	For each landscaping stage of the development an indicative Plant Schedule is prepared and updated as required and will be used as a guide to check that planting numbers are trending toward compliance with the overall tree target.	Revegetation - during planning	The tracking sheet is updated regularly and used to guide planting numbers. D_001_PLRP CBC Tracking Sheet (updated 19 October 2018)	C																																										
PLRP 4	All future planting schedules and landscape designs will be in accordance with the targets in the PLRP.	Revegetation - during planning	As the re-interpretation of the PLRP objectives and approach was approved in July 2018, this requirement has not been fully achieved, however the tracking sheet provides guidance for future landscape designs.  D_001_PLRP CBC Tracking Sheet (updated 19 October 2018) and Table 5 of this report	C																																										

Audit Code	Action	Timing	Evidence/comment	Conformance Status																										
<b>Section 4 Monitoring, Reporting and Review</b>																														
PLRP 5	<p>Table 5 includes timeframes, contingency measures, monitoring and reporting measures for achieving Condition 12 of EPBC 2011/5902.</p> <p><b>Table 5: Monitoring actions</b></p> <table border="1"> <thead> <tr> <th>Performance indicator</th> <th>Monitoring Actions</th> <th>Type of monitoring action</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Number of CBC species identified in annual monitoring (number, species and location).</td> <td>Review landscape plans, plant orders and planting schedules to determine number and type of species planted (i.e. CBC species)</td> <td>Desktop review</td> <td>Annually</td> </tr> <tr> <td>Record the species, location and number of CBC plants installed during the planting phase.</td> <td>Within each precinct where planting has been undertaken</td> <td>During planting</td> </tr> <tr> <td>90% survival rate achieved.</td> <td>Monitor success of species planted and determine whether infill planting is required.</td> <td>Within each precinct</td> <td>Annually</td> </tr> <tr> <td rowspan="2">Number of CBC tree and shrub species identified in the equivalent &gt;5 ha through annual monitoring reporting.</td> <td>Review landscape plans, plant orders and planting schedules to determine number and type of species planted (i.e. CBC species).</td> <td>Desk top review</td> <td>Annually</td> </tr> <tr> <td>Record the species, location and number of CBC plants installed during the planting phase</td> <td>Within each precinct where planting has been undertaken</td> <td>During planting</td> </tr> <tr> <td>90% survival rate achieved.</td> <td>Monitor success of species planted and determine whether infill planting is required.</td> <td>Within each precinct</td> <td>Annually</td> </tr> </tbody> </table>	Performance indicator	Monitoring Actions	Type of monitoring action	Frequency	Number of CBC species identified in annual monitoring (number, species and location).	Review landscape plans, plant orders and planting schedules to determine number and type of species planted (i.e. CBC species)	Desktop review	Annually	Record the species, location and number of CBC plants installed during the planting phase.	Within each precinct where planting has been undertaken	During planting	90% survival rate achieved.	Monitor success of species planted and determine whether infill planting is required.	Within each precinct	Annually	Number of CBC tree and shrub species identified in the equivalent >5 ha through annual monitoring reporting.	Review landscape plans, plant orders and planting schedules to determine number and type of species planted (i.e. CBC species).	Desk top review	Annually	Record the species, location and number of CBC plants installed during the planting phase	Within each precinct where planting has been undertaken	During planting	90% survival rate achieved.	Monitor success of species planted and determine whether infill planting is required.	Within each precinct	Annually	Revegetation - during planning	<p>Annual update of the monitoring actions and records has occurred. D_001_PLRP CBC Tracking Sheet (updated 19 October 2018) and Table 5 of this report.</p> <p>Management advice on 23 August 2018 stated that some areas (particularly POS U) will need to be infill planted to achieve the survival rate. Upwards of 80% have been estimated by Total Eden in previous audit periods.</p>	C
Performance indicator	Monitoring Actions	Type of monitoring action	Frequency																											
Number of CBC species identified in annual monitoring (number, species and location).	Review landscape plans, plant orders and planting schedules to determine number and type of species planted (i.e. CBC species)	Desktop review	Annually																											
	Record the species, location and number of CBC plants installed during the planting phase.	Within each precinct where planting has been undertaken	During planting																											
90% survival rate achieved.	Monitor success of species planted and determine whether infill planting is required.	Within each precinct	Annually																											
Number of CBC tree and shrub species identified in the equivalent >5 ha through annual monitoring reporting.	Review landscape plans, plant orders and planting schedules to determine number and type of species planted (i.e. CBC species).	Desk top review	Annually																											
	Record the species, location and number of CBC plants installed during the planting phase	Within each precinct where planting has been undertaken	During planting																											
90% survival rate achieved.	Monitor success of species planted and determine whether infill planting is required.	Within each precinct	Annually																											
<b>Section 4.1 Survival targets</b>																														
PLRP 6	Following the completion of a landscaping stage (POS or streetscape), the landscape architects visit the area on behalf of Lendlease to ensure the specifications have been met by the contractor (including the planting of specified Carnaby's Black Cockatoo species as documented within the approved design drawings).	During Construction	The landscape architects (Emerge) are regularly visiting the site to ensure specifications are being met. Management advice on 23 August 2018.	C																										
PLRP 7	Prior to handover to the City, Lendlease will ensure the 90% plant survival target is met to enable the handover to the City to be finalised.	During Construction	No parks have achieved practical completion (PC) during the audit period, and therefore none have been handed over to the City.	NA																										
<b>Section 4.2 Timeframes for the implementation</b>																														
PLRP 8	Handover to the City will be undertaken a minimum of 2 years after practical completion.	24 months following planting	No parks have achieved practical completion during the audit period, and therefore none have been handed over to the City. It is likely parks D and U may achieve PC during the next audit period.	NA																										
PLRP 9	Following handover, maintenance of streetscapes and POS will be managed by the City.	On-going following handover	No parks have achieved PC during the audit period, and therefore none have been handed over to the City	NA																										
PLRP 10	Handover of planting across the site will be staged in accordance with the park and street delivery. All parks and streets are expected to be handed over by the completion of the project. Refer to the indicative precinct plan in <b>Appendix C</b> for the breakdown of park and street delivery across the Estate.	On completion of each area During Construction	No parks have achieved PC during the audit period, and therefore none have been handed over to the City	NA																										
<b>Section 4.3 City of Wanneroo process</b>																														
PLRP 11	For each stage of landscaping (streetscape or POS) a detailed design is submitted to the City for their review and approval.	Pre-construction	Staging plans showing the new interpretation of the PLRP obligations and planting regimes are yet to receive CoW review and approval. However, this did occur in previous years.	C																										
PLRP 12	The City assesses each design to ensure it complies with their standards and confirms that ultimately the City will be able to manage the area following the required 2 year maintenance period.	Handover	Not yet achieved for the audit period given the new interpretation of the PLRP objectives and planting regime.	NA																										
PLRP 13	As the management of the park in the long term is undertaken by the City, a City officer visits the area prior to handover of a stage to the City, to ensure it meets the specifications (and therefore planting of specified Carnaby's Black Cockatoo species as documented within the approved design drawings) and survival targets.	Prior to handover	Not yet relevant.	NA																										
PLRP 14	Once a stage of landscaping is handed over to the City, the requirements of the Condition for that park and streetscape are considered complete. The City accepts no liability for the requirements of the conditions of the EPBC Act approval and will not report on the ongoing management of the Carnaby's species.	Handover	Not yet relevant.	NA																										
PLRP 15	Due to the City requirements streetscape works in residential streets will be completed at the time of the front yard landscaping by the landscape contractor. In this instance it is incumbent on the landscape contractor to ensure that planting schedules meet the PLRP requirements.	Prior to approval of management plans	The landscape contractor is aware of the new planting schedules. Management advice on the 23 August 2018.	C																										



Audit Code	Action	Timing	Evidence/comment	Conformance Status
<b>Section 4.3 Restriction on clearing</b>				
PLRP 16	Clearing within the 'no clearing area' on <b>Attachment C</b> of EPBC 2011/5902 is not permitted to commence until the Management Plans required under Condition 10-12 of the approval are approved.	Prior to approval of management plans	Action assessed as completed during 2014 compliance audit (R_001). R_001_Annual Compliance Report 2017_Rev 1	C (completed)
<b>Section 4.4 Annual reporting requirements</b>				
PLRP 17	Lendlease is required to submit an ACR in accordance with Condition 3 of EPBC 2011/5902, as detailed below: <i>'Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published. Each management plan must be published on the website for the length of the approval.'</i>	Annually	The DEE was notified via email on 23 November 2017 that the 2017 Compliance Report (R_001) was published on the Alkimos Beach website, within 3 months of the anniversary of the commencement of the action (C_001).  R_001_Annual Compliance Report 2017_Rev 1  C_001_Annual Compliance Report 2017 to DEE	C
PLRP 18	In accordance with the PLRP the following details are required to be included in the ACR: 1. An update of any completed stages or tendered landscape for future stages. 2. Report against planting targets and landscape survival targets. 3. Update of completed tree planting for each stage. 4. Amendments to precinct and staging plans 5. Updated plant schedules for each stage of the development.	Annually	R_001_Annual Compliance Report 2017_Rev 1  The 2017 Annual Compliance Report (R_001) provides a summary of the current status of the project, including works undertaken during the audit period and practical completion.  Future planting schedules were provided in Appendix 4 of the report and tracking against the rehabilitation targets was provided in Appendix 5.	C



**Appendix 4**  
**Plant schedules**



Precinct	Park	Status	Actual Area	Planting Area (m2) <sup>[1]</sup>	Planting Area		Use	Classification	Trees		Shrubs		Total		Comments	
					(ha)	(%)			CBC	Non-CBC	CBC	Non-CBC	CBC	Non-CBC		
1	A	Complete	1,966	786	0.079	40%	Local	Passive Open Space	18	45	297	1,419	315	1,464	1,779	
1	B1	Complete	5,351	2,140	0.214	40%	Neighbourhood	Passive Open Space	53	149	-	4,130	53	4,279	4,332	
1	B2	Complete	10,703	9,098	0.910	85%	Neighbourhood	Reflect and Restore - Dune Link								B2 & C built as one stage
1	C	Complete	8,140	4,884	0.488	60%	Neighbourhood	Reflect and Restore - Dune Link	397	59	3,729	33,311	4,126	33,370	37,496	B2 & C built as one stage
1	D	Complete	921	461	0.046	50%	Local	Passive Open Space	129	82	994	4,256	1,123	4,338	5,461	D & E built as one stage
1	E	Complete	2,276	910	0.091	40%	Local	Passive Open Space								D & E built as one stage
1	F	Complete	12,658	6,962	0.696	55%	Neighbourhood	Passive Open Space	150	129	700	21,413	850	21,542	22,392	F, F1 & F2 built as one stage
1	F1	Complete	1,071	643	0.064	60%	Local	Passive Open Space								F, F1 & F2 built as one stage
1	F2 PAW	Complete	843	801	0.080	95%	Local	Passive Open Space								F, F1 & F2 built as one stage
2	G	Complete	2,425	2,183	0.218	90%	Local	Natural - Conservation Interface	455	63	927	4,571	1,382	4,634	6,016	
4	I	Future*	6,538	327	0.033	5%	Conservation POS	Natural - Conservation (to plant 2ha across H and I)	124	10	470	201	594	211	805	
3	J	Future*	11,195	9,516	0.952	85%	Neighbourhood	Reflect and Restore - Dune Link	1,136	18	29,159	7,556	30,295	7,574	37,869	80% of plantings to POS portion are CBC feeding species
3	J	Future*	13,682	4,789	0.479	35%	Neighbourhood	Passive Open Space	769	12	2,000	21,685	2,769	21,697	24,466	
3	K1	Future*	4,230	1,481	0.148	35%	Neighbourhood	Reflect and Restore - Dune Link	483	-	1,400	3,003	1,883	3,003	4,886	
2	K2	Future*	2,847	569	0.057	20%	Neighbourhood	Reflect and Restore - Dune Link	79	-	1,750	1,140	1,829	1,140	2,969	
2	L1	Future*	811	243	0.024	30%	Neighbourhood	Reflect and Restore - Dune Link	14	-	330	555	344	555	899	
2	L2	Future*	499	150	0.015	30%	Neighbourhood	Reflect and Restore - Dune Link	11	-	170	337	181	337	518	
2	M	Future*	14,788	7,394	0.739	50%	Neighbourhood	Reflect and Restore - Dune Link	2,500	12	7,515	13,700	10,015	13,712	23,727	
3	N	Future*	1,067	534	0.053	50%	Neighbourhood	Passive Open Space	179	-	600	804	779	804	1,583	
3	O	Future*	1,818	1,727	0.173	95%	Local	Passive Open Space	710	-	5,154	1,466	5,864	1,466	7,330	80% of plantings to POS are CBC feeding species
4	P	Future*	12,058	4,582	0.458	38%	Neighbourhood	Active Park - Include area of high natural value	10	15	12,210	3,040	12,220	3,055	15,275	80% of plantings to POS are CBC feeding species
3	Q	Future*	5,870	4,520	0.452	77%	Neighbourhood	Passive Open Space	356	5	1,650	10,150	2,006	10,155	12,161	
4	R	Future*	13,100	10,742	1.074	82%	Neighbourhood	Natural - Conservation interface	1,570	20	27,221	7,172	28,791	7,198	35,983	80% of plantings to POS are CBC feeding species
2	S	Complete	20,372	6,926	0.693	34%	Neighbourhood	Reflect and Restore - Dune Link	1,513	33	915	9,405	2,428	9,438	11,866	
1	U	Complete	39,862	5,182	0.518	13%	Neighbourhood	Active Park - Include area of high natural value	1,297	75	7,255	13,492	8,552	13,567	22,119	
Streetscapes	Other	Partially completed	24,397	24,397	2.440	100%	Local Green Links/ Streetscapes	Estimated planting of 10% of road reserve area only + Small local green link with some natural planting	968	1,613	10,351	59,418	11,319	61,031	72,350	Remainder of streetscapes has not been calculated yet
<b>Totals</b>			<b>219,488</b>	<b>111,946</b>	<b>11.19</b>				<b>12,921</b>	<b>2,340</b>	<b>114,797</b>	<b>222,224</b>	<b>127,718</b>	<b>224,570</b>	<b>352,282</b>	

Summary 'CBC parks' only (Cond 12a & 12b)	Cond 12b	Cond 12a	Cond 12b					
Parks and planting areas i.e. allocated to CBCs (in ha)		Total Trees (CBC)	Total Trees (non CBC)	Total Shrubs (CBC)	Total Shrubs (non CBC)	Total trees & shrubs (CBC)	Total trees & shrubs (non CBC)	Total trees & shrubs
Existing Parks A, D, F, G, S, U:	2.394	3,562	427	11,088	54,556	14,650	54,983	69,633
						21%	79%	
Future Parks J (partial), O, P, R:	2.657	3,426	53	73,744	19,234	77,170	19,293	96,457
						80%	20%	
<b>Total ha</b>	<b>5.051</b>	<b>6,988</b>				<b>91,820</b>	<b>74,276</b>	<b>166,090</b>
						<b>55%</b>	<b>45%</b>	

**Key**

Parks dedicated to CBCs species and included in the calculations above

\*Planting targets for future parks are indicative only and no. may change depending on the availability of plants at the time





**Appendix 5**  
**Tracking against planting targets**



# Alkimos Beach - Native Trees and Shrubs

## Carnaby's Black Cockatoo - Tracking Spreadsheet (vers. L-19-10-18)

				PRECINCT 1												PRECINCT 2						PRECINCT 3						PRECINCT 4												
CBC Parks Only (Cond 12a+12b)**				CBC only			T+S all			CBC only			T+S all			CBC only			T+S all			CBC only			T+S all			CBC only			T+S all									
Botanical Name		Common Name		Primary Feeding Plants for CBCs*#		Shrub or Tree		Stage 1 - Park A CBC Park			Stage 3 & 4 excl streetscape (POS E only) CBC Park			Stage 3 & 4 excl streetscape (POS D only) CBC Park			Stage 10 -Park U excl streetscape (Fairy Pde)			Stage 7 - Park F CBC Park			Park G only ALL26 CBC Park			Park S ALL35 CBC Park			Park O CBC Park FUTURE***			Park P CBC Park FUTURE***			Park R CBC Park FUTURE***			Park J CBC Park FUTURE***		
TREES																																								
<i>Agonis flexuosa</i>	WA Peppermint	Y	Y	9	9	9	1	1	1	0	0	0	23	23	23	46	46	46	5	5	5	47	47	47	5	5	5	10	10	10	50	50	50	30	30	30				
<i>Allocasuarina fraseriana</i>	Common Sheoak	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Allocasuarina littoralis</i>	Black Sheoak / River Black Oak	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Angophora costata</i>	Smooth Barked Apple	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20					
<i>Araucaria columnaris</i>	Cook Island Pine	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Araucaria heterophylla</i>	Norfolk Island Pine	Y	Y	6	6	6	8	8	8	2	2	2	2	2	2	0	0	0	0	0	0	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Banksia ashbyi</i>	Ashby's Banksia	Y	Y	0	0	0	0	0	0	0	0	1155	1155	1155	0	0	0	0	0	0	0	0	0	300	300	300	0	0	0	1000	1000	1,000	700	700	700					
<i>Banksia attenuata</i>	Candlestick (Biara) Banksia	Y	Y	0	0	0	0	0	0	0	0	29	29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Banksia grandis</i>	Bull Banksia	Y	Y	0	0	0	0	0	0	0	0	19	19	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Banksia integrifolia</i>	Coast Banksia	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Banksia menziesii</i>	Firewood Banksia	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	703	703	703	200	200	200	0	0	0	500	500	500	300	300	300					
<i>Banksia menziesii dwarf</i>	Firewood Banksia Dwarf	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	438	438	438	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Banksia prionotes dwarf</i>	Dwarf Acorn Banksia	Y	Y	0	0	0	82	82	82	0	0	0	0	0	0	0	0	0	0	0	0	0	200	200	200	0	0	0	0	0	0	300	300	300	0	0				
<i>Banksia sessilis</i>	Parrot Bush	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	703	703	703	0	0	0	0	0	0	0	0	500	500	500	0	0				
<i>Callitris preissii</i>	Cypress Pine	Y	Y	0	0	0	0	0	0	0	0	0	0	0	47	47	47	0	0	0	38	38	38	0	0	0	0	0	10	10	10	15	15	15						
<i>Callistemon Kings Park Special</i>	Bottlebrush	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Casuarina equisetifolia</i>	Horse Tail Sheoak	N	Y	0	27	27	0	31	31	0	7	7	0	53	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10					
<i>Casuarina fraseriana</i>	Weeping Beach Sheoak	N	Y	0	0	0	0	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	0	0					
<i>Casuarina obesa</i>	Swamp Sheoak	N	Y	0	5	5	0	0	0	0	0	0	0	0	26	26	0	0	0	0	0	0	0	0	0	0	15	15	0	10	10	10	0	0	0					
<i>Corymbia calophylla</i>	Marri	Y	Y	0	0	0	0	0	0	0	0	23	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Corymbia calophylla rosea</i>	Marri Rosea	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Corymbia ficifolia</i>	Red Flowering gum	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	0					
<i>Corymbia maculata</i> #	Spotted gum	Y	Y	0	0	0	8	8	8	0	0	0	0	0	0	0	0	0	0	0	5	5	5	0	0	0	0	10	10	10	20	20	20	0	0					
<i>Delonix Regia</i>	Poinciana	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Erythrina indica</i>	Coral Tree	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Eucalyptus marginata</i>	Jarrah	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Eucalyptus gomphocephala</i>	Tuart	Y	Y	3	3	3	6	6	6	0	0	0	46	46	46	0	0	12	12	12	8	8	8	5	5	5	0	0	0	0	0	0	20	20	20	0				
<i>Eucalyptus sideroxylon</i>	Ironbark	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Eucalyptus sideroxylon Rosea</i>		N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Eucalyptus totiana</i>	Coastal Blackbutt	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Eucalyptus utilis</i>	Coastal Moort	N	Y	0	0	0	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Eucalyptus victrix</i>	Coolibar	N	Y	0	0	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Ficus macrophylla</i>	Morton Bay Fig	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Gleditsia triacanthos</i>	Honey Locust	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Hakea laurina</i>	Pincusion Haekea	Y	Y	0	0	0	14	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Liquidambar styraciflua</i>	Liquidambar	Y	Y	0	0	0	0	0	0	0	0	0	0	0	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Macadamia integrifolia</i>	Macadamia	Y	Y	0	0	0	0	0	0	0	0	0	0	0	15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Macrozamia riedlei</i>	Zamia palm	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	48	48	0	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Melaleuca armillaris</i>	Bracelet Honey Myrtle	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Melaleuca lanceolata</i>	Rottnest Island Tea	N	Y	0	0	0	0	0	0	0	0	0	0	0	29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Melaleuca preissiana</i>	Swamp Tea Tree	N	Y	0	0	0	0	0	0	0	0	0	14	14	0	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Melaleuca quinquenervia</i>	Broad-leaved	N	Y	0	13	13	0	8	8	0	0	0	8	8	0	18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Morus pendula alba</i>	Mulberry	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Metrosideros thomasi</i>	New Zealand Christmas Tree/Bush	N	Y	0	0	0	13	13	13	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Olea europaea</i>	Olive	N	Y	0	0	0	3	3	3	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Phoenix canariensis</i>	Canary Island date palm	N	Y	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Robinia pseudoacacia</i>	Black Locust	N	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Santalum acuminatum</i>	Native Peach (Quandong)	N	Y	0	0	0	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Tipuana Tipu</i>	Tipuana	Y	Y	0	0	0	5	5	5	3	3	3	0	0	14	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Xanthorrhoea preissii</i>	Gr																																							





Botanical Name	Common Name	Primary Feeding Plants for CBCs*#	Shrub or Tree	Stage 1 - Park A CBC Park		Stage 3 & 4 excl streetscape (POS E only) CBC Park		Stage 3 & 4 excl streetscape (POS D only) CBC Park		Stage 10 -Park U excl streetscape (Fairy Pde)		Stage 7 - Park F CBC Park		Park G only ALL26 CBC Park		Park S ALL35 CBC Park		Park O CBC Park FUTURE***		Park P CBC Park FUTURE***		Park R CBC Park FUTURE***		Park J CBC Park FUTURE***	
				CBC	T+S	CBC	T+S	CBC	T+S	CBC	T+S	CBC	T+S	CBC	T+S	CBC	T+S	CBC	T+S	CBC	T+S	CBC	T+S	CBC	T+S
<i>Trees</i>				18	63	124	193	5	18	1297	1372	150	279	455	518	1513	1546	710	710	10	25	1570	1590	1905	1935
<i>Shrubs</i>				297	1702	751	3169	243	851	7255	20747	700	20093	927	5060	949	10354	5154	6620	12210	15250	27221	34393	28390	35934
<b>Cond 12B CBC Species Only</b>				315	1765	875	3362	248	869	8552	22119	850	20372	1382	5578	2462	11900	5864	7330	12220	15275	28791	35983	30295	37869

\*Plants for Carby's as listed in Groom, C (2011) Plants Used by Carnaby's Black Cockatoo. Department of Environment and Conservation; Birdlife Australia (2012) Carnaby's Black Cockatoo foraging and nesting plant species; Valentine, L & Stock, W (2008) Food Resources of Carnaby's Black Cockatoo in the Gnaralara Sustainability Study Area. Edith Cowan University.

#Corymbia maculata is considered a roosting tree for CBCs as per the DEC species list. It has still been included in the overall CBC tree count as it is a habitat tree but excluded from the 50% target, which is currently under review.

\*\*POSA, D, F, F1, F2 PAW, G, J, O, P, R, S, U

\*\*\*Planting targets for future parks are indicative only and no. may change depending on the availability of plants at the time

**Cond 12B**

**CBC Parks**

Parks A,D,F,G,S,U Total CBC (existing)	14,684
Parks J,O,P,R Total CBC (future)	77,170
A,D,F,G,S,U Total all trees and shrubs	65,965
J,O,P,R Total all trees and shrubs	96,457
Parks A,D,F,G,S,U % CBC (existing)	22%
Parks J,O,P,R % CBC (future)	80%

**CBC Parks - Total CBCs 91,854**  
**CBC Parks - Total CBC & non CBC 162,422**  
**% of CBC species across 5ha planting are: 57%**