

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach

Project No: EP20-096

**Prepared for Lendlease Communities (Alkimos) Pty Ltd
November 2020**



2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Document Control

Doc name:	2020 Annual Compliance Report – EPBC 2011/5902 Alkimos Beach				
Doc no.:	EP20-096(03)--001				
Version	Date	Author		Reviewer	
1	October 2020	Bianca Bertelli	BRB	Chrystal King	CKK
	For review by Lendlease				
A	October 2020	Bianca Bertelli	BRB	Chrystal King	CKK
	Updated in response to Lendlease comments				
B	November 2020	Bianca Bertelli	BRB	Chrystal King	CKK
	Updated in response to Lendlease comments				

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table of Contents

1	Introduction	1
1.1	Purpose	1
1.2	Scope	1
1.3	Project background	1
1.4	Approvals under the Environment Protection and Biodiversity Conservation Act 1999	2
2	Project status	3
3	Audit methodology	4
3.1	Revisions to management plans	4
3.2	Audit approach	5
3.3	Audit terminology	6
4	Audit findings	7
4.1	Compliance with EPBC 2011/5902 conditions	7
4.1.1	Conformance with the Conservation Area Management Plan	7
4.1.2	Conformance with the Foreshore Management Plan	7
4.1.3	Conformance with the Precinct Landscape and Revegetation Plan	9
5	References	19
5.1	General references	19

List of Tables

Table 1:	Summary of variation to conditions	2
Table 2:	Key personnel consulted during the audit	5
Table 3:	Audit terminology	6
Table 4:	Foreshore CC habitat revegetation performance	8
Table 5:	Precinct Landscape and Revegetation Plan CC habitat planting performance	9
Table 6:	Compliance within conditions in EPBC 2011/5902	10

Appendices

Appendix A

CBC clearing area (Roberts Day 2020)

Appendix B

Conformance with the Conservation Area Management Plan

Appendix C

Conformance with Foreshore Management Plan

Appendix D

Conformance with the Precinct Revegetation and Landscape Plan

Appendix E

Plant schedules

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Appendix F

Tracking against planting targets

Appendix G

Precinct and Staging Plan

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



1 Introduction

1.1 Purpose

This Annual Compliance Report (ACR) has been prepared for the purpose of fulfilling the requirements of condition 3 of *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) approval 2011/5902 (EPBC 2011/5902). Condition 3 requires the proponent to publish an ACR addressing compliance with each condition of EPBC 2011/5902; as follows:

Unless otherwise agreed to in writing by the Minister, the person taking the action must, within three months of every 12 month anniversary of the commencement of the action:

- a. 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; and*
- b. provide to the Department documentary evidence of the date of publication and non-compliance with any of the conditions of this approval.*

1.2 Scope

This ACR addresses the audit period between 6 September 2019 to the 5 September 2020 for the conditions associated with EPBC 2011/5902. This ACR is due to be published on the Lendlease website by 5 December 2020.

As part of the preparation of the ACR the relevant environmental management commitments/ obligations included in the following management plans were also assessed to determine if the plans have been satisfactorily implemented:

- Conservation Area Management Plan V4 (CAMP) (RPS 2019a) - required by condition 10.
- Foreshore Management Plan (FMP) V5 (RPS 2019b) - required by condition 11.
- Precinct Landscape and Revegetation Plan V6 (PLRP) (Lendlease 2020) - required by condition 12.

Where a previous ACR found a condition or management commitment to be 'Completed' that finding was accepted as being applicable to the current audit period, unless circumstances to the contrary were identified, in which case the item was re-assessed.

1.3 Project background

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

On 30 June 2012, the project was approved by the Federal Minister for the Environment under s130(1) and 133 of the EPBC Act, with Lendlease designated as the approval holder. Construction of the project was subsequently commenced on the 5 September 2012.

The project involves clearing approximately 97 ha of native vegetation for urban development on Lot 1004, 80L Romeo Road and 2611 Marmion Avenue, Alkimos, see **Appendix A**.

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



1.4 Approvals under the Environment Protection and Biodiversity Conservation Act 1999

On the 30 June 2012, the project received conditional approval from the Federal Minister for the Environment (EPBC 2011/5902). A number of variations to conditions have been approved since this time as detailed in **Table 1**.

Table 1: Summary of variation to conditions

Variation No.	Approval Date	Description
1	24 August 2012	Amending condition 14 to change the timeframe required for the condition.
2	13 June 2013	This variation was triggered by the de-listing of the Graceful Sun-Moth from the threatened species list defined under the EPBC Act. The variation includes removal of conditions 9, 15, 16, 17, Attachment B and changes to relevant definitions referring to those removed conditions. This variation also includes revision to conditions 10 and 11.
3	19 August 2016	This variation includes a 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.
4	30 November 2018	This variation includes: <ul style="list-style-type: none"> • A revision to condition 3, whereby the Minister can approve the cessation of the annual compliance reports. • The revoking of condition 5, which relates to the Minister having the ability to request specified revisions to the management plans. • Inclusion of condition 12A, whereby a request can be made to the Minister to cease the implementation of a management plan and the maintenance of records for that plan.

On 14 October 2019, the proponent made a request to the Department of Water, Agriculture and Environment (DAWE) under condition 12A of EPBC 2011/5902 to cease implementation, maintenance, and reporting of the CAMP within the eastern portion of the plan area. This request was granted by the DAWE on 4 March 2020.

In addition to the above, there have also been a number of revisions to the three management plans since their original approval. Changes to management plans affecting the current audit period are discussed in **Section 3**.

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



2 Project status

Activities undertaken during the audit period (6 September 2019 to 5 September 2020) involved activities relating to Precinct (P) 1, 2, 3 and 4, CAMP study area and the FMP area of the Alkimos Beach development, and can be summarised as:

- During the audit period no additional clearing of CC foraging habitat within Lot 1004, 80L Romero Road and 2611 Marmion Avenue, Alkimos occurred. Therefore, clearing to date is 21.01 ha.
- Civil construction occurred within Precinct 3.
- CAMP study area:
 - Maintained 2.08 ha of revegetation within the CAMP study area.
 - Monitoring within the CAMP study area including:
 - Informal inspections to assess weeds, fire risk, erosion control, access and condition of fencing.
 - Repairing fencing if required.
- FMP area:
 - Revegetation and maintenance of 2.7 ha (as of Autumn 2020) within the FMP area.
 - Monitoring and maintenance within the FMP area including:
 - Infill planting.
 - Planting within the lookout and associated blowout.
 - Erosion control including brushing to stabilise the surfaces.
 - Weed control.
 - Replacing signage.
 - Repairing fencing if required.
 - Site inspections for rabbits.
 - Informal inspections.
- PLRP Study area
 - Monitoring and maintenance within POS areas dedicated to Carnaby Cockatoo (CC) foraging species (known herein as 'CC POS') including:
 - Informal inspections of CC POS.
 - CBC Parks F, F1, F2 and PAW have been handed over to the City in this auditing period.

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



3 Audit methodology

The audit reported on in this ACR, addresses the period between 6 September 2019 and 5 September 2020 for the conditions and commitments of EPBC 2011/5902.

It is recognised that, as reported in the 2018 ACR, the CAMP's three-year rehabilitation monitoring period has been completed, and therefore the rehabilitation elements of the CAMP have ceased. On 14 October 2019, the proponent made a request to the Department of Water, Agriculture and Environment (DAWE) under condition 12A of EPBC 2011/5902 to cease implementation, maintenance, and reporting of the CAMP within the eastern portion of the plan area. This request was granted by the DAWE on 4 March 2020.

Lendlease will continue to ensure that the objective of the CAMP is met (through weed control and informal inspections) until this portion is handed over to the City of Wanneroo as the long-term land manager. This audit of the CAMP will focus on assessing the ongoing objectives of the CAMP, specifically the measures undertaken to achieve the following CAMP objective:

- *Minimise the impact of activities that could degrade Carnaby's Black-Cockatoo habitat.*

As such evidence required to demonstrate ongoing implementation of the CAMP is considered to include the following, as related to Condition 10c-f of EPBC 2011/5902:

- Any actions taken to manage weeds and feral pests.
- Any actions taken relating to bushfire prevention and management.
- Any actions taken to monitor and manage erosion.
- Any actions taken to monitor and manage access.

3.1 Revisions to management plans

In accordance with Condition 4a of EPBC 2011/5902, all three management plans have been revised during the audit period. Amendments to the Conservation Area Management Plan (CAMP) (V4), Precinct Landscape and Revegetation Management Plan (PLRP) (V6), and Foreshore Management Plan (FMP) (V5) were determined not to have a new or increased impact by DAWE. The amendments to the plans are focussed on addressing the City of Wanneroo's long-term responsibilities post-handover on the management of existing vegetated and revegetation areas.

Version 4 of the CAMP and Version 5 of the FMP was provided to DAWE on 14 October 2019 and first implemented on 14 November 2019. A minor non-compliance with Condition 7 was noted with regards to the CAMP and FMP which were not published on the website within one month of being approved by the Department, therefore a minor non-compliance has been noted (further discussed in **Section 4.1**). Lendlease rectified the minor non-compliance within the audit period by publishing the CAMP (v4) and FMP (v5) on the Alkimos Beach website on 25 August 2020 and subsequently notifying the Department on the 3 September 2020.

Version 6 of the PLRP was provided to DAWE on 1 April 2020. The revised PLRP (V6) was first implemented on 1 May 2020 and was made available on the Lendlease website in accordance with Condition 7 on 30 April 2020, within one month of approval. A letter detailing the changes made to

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



the management plan and including a rationale on why these changes will not result in a new or increased impact to MNES was also provided to DAWE on 1 April 2020. A summary of the key changes to the PLRP is as follows:

- Removal of the reference to a 90 % survival rate of CBC habitat trees, which is inconsistent with the requirements of Condition 12.
- Clarification of the areas to be planted, as detailed within Appendix E of the approved PLRP.
- Clarification of the timing and monitoring and maintenance of each planting area, to reflect the stages handover process of Public Open Space (POS) to the City of Wanneroo.

For this ACR, the latest versions of the CAMP (V4), FMP (V5) and PLRP (V6) have been assessed for compliance.

3.2 Audit approach

The 2020 compliance audit was undertaken in August and September 2020 and involved:

- A site inspection by Chrystal King from Emerge Associates on the 2 September 2020.
- Interviews with key members of the project team.
- Review of documentation provided by key members of the project team.

Key personnel consulted as part of the audit are listed in **Table 2**.

Table 2: Key personnel consulted during the audit

Personnel	Organisation and Position
Nadja Kampfhenkel	Lendlease Sustainability Manager WA
Jacob Abbott	Lendlease Development Manager
Peter Grose	Tranen Managing Director Project Revegetation Consultant
Emma Carr	Emerge Associates Senior Landscape Architect Project Landscape Architect

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



3.3 Audit terminology

The 'Compliance Status' field of the audit tables describes the implementation of actions and compliance with the approval. **Table 3** details the terminology that has been applied in this audit.

Table 3: Audit terminology

Compliance status term	Abbreviation	Description
Regulatory requirements - applicable to the conditions of approval		
Compliant	C	When all the requirements of a condition have been met, including the implementation of management plans or other measures required by those conditions.
Completed	CLD	Where a requirement with a finite period of application has been satisfactorily completed.
Not Applicable	N/A	Where 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.
Non-compliant	NC	Where the requirements of a condition or elements of a condition, including the implementation of management plans and other measures, have not been met.
Corporate policies, standards and procedures – applicable to the CAMP, FMP and PLRP		
Conformant	C	When sufficient evidence has been provided to confirm that the requirements within a corporate policy, standard and/or procedure (including an environmental management plan) has been satisfactory implemented.
Completed	CLD	Where a requirement with a finite period of application has been satisfactorily completed.
Not Applicable	N/A	Where the requirements of a corporate policy, standard and/or procedure (including an environmental management plan) fall outside of the scope of the current reporting period. For example a management plan which applies to an activity that has not yet commenced.
Non-conformant	NC	Where the requirements within a corporate policy, standard and/or procedure (including an environmental management plan) have not been satisfactory implemented.

*adapted from OEPA (2012b, 2012a); DoEE (2014); Graham A Brown & Associates (2014); OEPA (Undated)

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



4 Audit findings

The results of the 2020 audit of EPBC 2011/5902 are shown in **Table 6**.

The results of the 2020 audit of conformance with the ongoing objectives of the CAMP (condition 10) are outlined in **Appendix B**, and for the management actions within the FMP (condition 11) and PLRP (condition 12) within **Appendix C** and **Appendix D**, respectively.

A total of 123 items were audited from EPBC 2011/5902, CAMP, FMP and PLRP.

4.1 Compliance with EPBC 2011/5902 conditions

One minor non-compliance with Condition 7 of EPBC 2011/5902 (**Table 6**) was identified during the audit. Condition 7 of the approval requires each management plan to be published on the website within 1 month of being approved.

As previously stated in **Section 3.1**, in accordance with Condition 4a of EPBC 2011/5902, all three management plans have been revised during the audit period. Version 4 of the CAMP and Version 5 of the FMP were accepted by DAWE under Condition 4a on 15 November 2019. The revised CAMP (v4) and FMP (v5) were sighted on the Alkimos Beach website on 25 August 2020. The CAMP and FMP were not published on the website within one month of being approved by the Department, therefore a minor non-compliance has been noted.

The auditors note that while this non-compliant finding has been made, it is technical, minor and was rectified within the audit period.

4.1.1 Conformance with the Conservation Area Management Plan

Based on the audit methodology specified in **Section 3**, no non-conformances with the requirements of the CAMP (**Appendix B**) were identified during the audit.

4.1.2 Conformance with the Foreshore Management Plan

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

In accordance with the FMP (refer to audit item FMP 60), this ACR is required to contain a foreshore CC habitat revegetation section which will include material that relates to 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, Tranen and Georgiou (the civil construction contractor).

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 4: Foreshore CC habitat revegetation performance

Action item	Comment																														
Revegetation completion criteria and weed monitoring	Monitoring of the FMP completion criteria commenced in Spring 2015. Monitoring results for the last two years are reported below. See the 2018 ACR for the first two years of monitoring results (Spring 2015, Autumn 2016, Spring 2016, Autumn 2017).																														
	<table border="1"> <thead> <tr> <th>Year after planting</th> <th>Targets</th> <th>Spring 2018 (overall mean)</th> <th>Autumn 2019 (overall mean)</th> <th>Spring 2019 (overall mean)</th> <th>Autumn 2020 (overall mean)</th> </tr> </thead> <tbody> <tr> <td>Survival (established plant density – both planting and seeding)</td> <td>90% (Yr 1) (equivalent to 1.8 plants /m²) 70% (Yr 2) (equivalent to 1.4)</td> <td>See average plant density</td> <td>See average plant density</td> <td>See average plant density</td> <td>See average plant density</td> </tr> <tr> <td>Average plant density (plants/m²)</td> <td>1.7 to 2 plants /m²</td> <td>2.8</td> <td>2.6</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>Plant coverage (% area of visual ground cover measured by a botanist/ revegetation consultant)</td> <td>25% (Yr 1) 50% (Yr 2)</td> <td>54</td> <td>53</td> <td>54</td> <td>56</td> </tr> <tr> <td>Weeds coverage</td> <td>10%</td> <td><1</td> <td><1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	Year after planting	Targets	Spring 2018 (overall mean)	Autumn 2019 (overall mean)	Spring 2019 (overall mean)	Autumn 2020 (overall mean)	Survival (established plant density – both planting and seeding)	90% (Yr 1) (equivalent to 1.8 plants /m ²) 70% (Yr 2) (equivalent to 1.4)	See average plant density	See average plant density	See average plant density	See average plant density	Average plant density (plants/m ²)	1.7 to 2 plants /m ²	2.8	2.6	2.5	2.5	Plant coverage (% area of visual ground cover measured by a botanist/ revegetation consultant)	25% (Yr 1) 50% (Yr 2)	54	53	54	56	Weeds coverage	10%	<1	<1	1	1
	Year after planting	Targets	Spring 2018 (overall mean)	Autumn 2019 (overall mean)	Spring 2019 (overall mean)	Autumn 2020 (overall mean)																									
	Survival (established plant density – both planting and seeding)	90% (Yr 1) (equivalent to 1.8 plants /m ²) 70% (Yr 2) (equivalent to 1.4)	See average plant density	See average plant density	See average plant density	See average plant density																									
	Average plant density (plants/m ²)	1.7 to 2 plants /m ²	2.8	2.6	2.5	2.5																									
Plant coverage (% area of visual ground cover measured by a botanist/ revegetation consultant)	25% (Yr 1) 50% (Yr 2)	54	53	54	56																										
Weeds coverage	10%	<1	<1	1	1																										
Revegetation and weed contingency actions if required	<p>Overall mean plant coverage and average plant density during the audit period was above all criteria.</p> <p>Further infill planting has been conducted in the FMP area where the plant coverage and species richness for specific quadrats indicate that revegetation is required. Seedlings for infill planting for the next planting season have also been ordered, primarily for the lookout and its blowout, and some for the beach blowout, which have lower than average plant densities and /or plant % cover. Poor plant survival at the lookout and associated blowout remained low and was largely attributed to the soil conditions coupled with its aspect.</p> <p>Human foot traffic and repeated removal of brushing material by third party individuals to make various play structures was noted during the previous audit period. Additional brushing has been installed and anchored to discourage human foot traffic to minimise this impact in the future.</p> <p>Weed control by herbicide spraying and manual removal continues to be undertaken as per the FMP requirements.</p>																														
Erosion monitoring within the foreshore area	<p>Erosion controls were put in place as part of the initial revegetation works (brushing and mulch).</p> <p>Additional brushing was installed and anchored around the lookout to discourage human foot traffic. The previously reported trampling of native vegetation at the lookout blowouts attributed to human foot traffic, sandboarding and repeated removal of brushing material has been reversed with fencing of the site, installation of anchored brushing material, and infill planting.</p>																														
Report observations of feral pests	<p>No evidence of any significant pest activity was noted on the site, although previous rabbit activity had been noticed off the north beach road during the Spring 2019 monitoring period.</p> <p>An independent fauna specialist inspected an area where previous rabbit activity had been noticed off the north beach road. During the visit, no major areas of disturbance as a result of rabbits was noted. No further action was considered to be required.</p>																														

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 4: Foreshore CC habitat revegetation performance

Action item	Comment
Temporary fencing, pathways 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.</p> <p>Regular monitoring of the temporary fencing is carried by the construction contractor and no issues were noted. The spring monitoring report noted new weather damage to semi-permanent fence line at end of Graceful Blvd, public damage to semi-permanent fencing line on Leatherback Boulevard and break into gate. New temporary chainmesh fencing was reinstated by Georgiou in all damaged locations.</p>
Report any fire incidences in the foreshore and the response.	No fire incidents have been observed to date.

4.1.3 Conformance with the Precinct Landscape and Revegetation Plan

No non-conformances with the requirements of the PLRP (**Appendix D**) were identified during the audit.

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

- An update of any completed stages or tendered landscape for future stages.
- Report against planting targets and landscape survival targets.
- Update of completed tree planting for each stage.
- Amendments to precinct and staging plans.
- Updated plant schedules for each stage of the development.

The information required to address PLRP 18 is provided in **Table 5**, and is based on advice from Lendlease, the landscape team at Emerge Associates and Total Eden.

Table 5: Precinct Landscape and Revegetation Plan CC habitat planting performance

Action item	Comment
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 E .
Report against planting targets.	Tracking against the rehabilitation targets is provided in Appendix E , including tree and shrub tracking spreadsheets.
Update of completed tree planting for each stage.	An update of completed planting with CBC POS is provided in Appendix F , including specific species numbers.
Amendments to precinct and staging plans.	The most up to date precinct plan is provided in Appendix G .
Updated plant schedules for each stage of the development.	Updated plant schedules for each stage is provided in Appendix F .

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 6: Compliance within conditions in EPBC 2011/5902

Condition Reference	Condition	Compliance Status	Comment	Evidence
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.	CLD	This item is reported as completed in the 2014 ACR.	R001_Strategen EPBC 2011_5902 ACR 2014
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.	C	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.
3	Unless otherwise agreed to in writing by the Minister, the person taking the action must, within three months of every 12 month anniversary of the commencement of the action: a) 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; and b) provide to the Department documentary evidence of the date of publication and non-compliance with any of the conditions of approval	C	DAWE was notified via email on 13 November 2019 that the 2019 compliance report was published on the Alkimos Beach website. DoEE confirmed the 2019 Annual Compliance Report was received on 3 June 2020. No non-compliances were reported within the 2019 compliance report.	E003_Lendlease_Annual compliance report 2019 to DoEE E004_DAWE_DAWE acknowledgement of ACR receipt P001_2020.08.27 Emerge Associates Snapshot of AB website_MP links R003_Emerge Associates EPBC20115902 ACR 2019
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.	C	The PLRP, CAMP and FMP were revised during the audit period in accordance with condition 4. Copies of all current management plans were published on the Alkimos Beach website. DAWE email correspondence advising Lendlease that the revised PLRP, CAMP and FMP can be submitted in accordance with condition 4a as they are not likely to result in a new or increased impact.	E005_DAWE_Confirmation revised MPs Cond4a E002_DAWE_Revised PLRP received by DAWE

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 6: Compliance within conditions in EPBC 2011/5902 (continued)

Condition Reference	Condition	Compliance Status	Comment	Evidence
4.2	<p>If the person taking the action makes this choice they must:</p> <p>i) Notify the Department in writing that the approved plan has been revised and provide the Department with:</p> <ul style="list-style-type: none"> an electronic copy of the revised plan an explanation of the differences between the revised plan and the approved plan; and 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. 	C	<p>Lendlease issued a variation letter to DAWE on 14 October 2019 summarising the amendments to the PLRP, CAMP and FMP (L002).</p> <p>Lendlease provided an electronic copy of the revised PLRP, CAMP and FMP to DAWE via email on 14 October 2019 (E006).</p> <p>DAWE queried compliance with condition 12A via email correspondence dated 19 October 2019. Lendlease responded in relation to Conditions 3, 4a and 12a and the revised PLRP, CAMP, FMP dated 30 October 2019 (E006).</p> <p>Lendlease issued a PLRP variation letter to DAWE on 1 April 2020 detailing the differences between the revised plan and the approved PLRP and included a rationale on why these changes will not result in a new or increased impact to MNE (L001).</p> <p>Lendlease has provided an electronic copy of the revised PLRP to DAWE via email on 1 April 2020 (E001). On 3 April 2020 DAWE formally advised Lendlease the revised PRLP has been noted and recorded by the Department (E0012)</p>	<p>L002_RPS Group Letter of rationale for PLRP, CAMP, FMP revision</p> <p>E006_RPS Group_Conditions 3, 4a and 12a, PLRP, CAMP, FMPP</p> <p>L001_Lendlease Letter of rationale for PLRP revision</p> <p>E001_Lendlease_Provision of revised PLRP and letter of rationale</p> <p>E0012_DAWA_Formal recognition of revised PLRP</p>

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 6: Compliance within conditions in EPBC 2011/5902 (continued)

Condition Reference	Condition	Compliance Status	Comment	Evidence
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.	C	<p>Lendlease provided DAWE with an electronic copy of the revised CAMP (v4) and FMP (v5) on 14 October 2019. Lendlease declared the revised CAMP and FMP would be implemented on 14 November 2019, within 28 days after the revised plans was provided to DAWE.</p> <p>Lendlease provided an electronic copy of the revised PLRP (v6) on 1 April 2020. The revised PLRP (v6) was first implemented on 1 May 2020, within 28 days after the revised plan was provided to DAWE.</p> <p>All management plans were made available on the Lendlease website in accordance with Condition 7.</p>	<p>E0010_Lendlease_Declaration of revised CAMP and FMP implementation</p> <p>E001_Lendlease_Provision of revised PLRP and letter of rationale</p> <p>L001_Lendlease Letter of rationale for PLRP revision</p>
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.	N/A	The proponent has chosen not to revoke their choice under condition 4 a) (Condition Ref 4.1) during this audit period.	N/A
4.5	<p>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> <ol style="list-style-type: none"> Condition 4.a) does not apply, or ceases to apply, in relation to the revised plan; and The person taking the action must implement the approved plan. <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>	C	DAWE provided email correspondence advising Lendlease that the revised PLRP, CAMP and FMP can be submitted in accordance with condition 4a as they are not likely to result in a new or increased impact.	<p>L002_RPS Group Letter of rationale for PLRP, CAMP, FMP revision</p> <p>E005_DAWE_Confirmation revised MPs Cond4a</p> <p>E002_DAWE_Revised PLRP received by DAWE</p>

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 6: Compliance within conditions in EPBC 2011/5902 (continued)

Condition Reference	Condition	Compliance Status	Comment	Evidence
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.	N/A	Refer to Condition Ref. 4.1 above.	
5	<i>Revoked.</i>			
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 .	CLD	This item is reported as completed in the 2013 ACR.	R002_Lendlease EPBC20115902 ACR 2013
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.	C	The revised CAMP (v4) and FMP (v5) were submitted to the Alkimos Beach website during the audit period (25 August 2020). The revised PLRP (v6) submitted to the Alkimos Beach website during the audit period (30 April 2020).	P002_Lendlease Snapshot CAMP Rev 4 on AB website P003_Lendlease Snapshot FMP Rev 5 on AB website E007_Lendlease_Confirmation of publication of CAMP, FMP on AB website E008_Lendlease_Confirmation of publication of PLRP on AB website
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.	NC	The revised PLRP was published on the Alkimos Beach website on 30 April 2020, within one month of approval at: https://communities.lendlease.com/western-australia/alkimos-beach/living-in-alkimos-beach/sustainability/ The revised FMP and CAMP were accepted by DAWE under Condition 4a on 15 November 2019 and sighted on the Alkimos Beach website on 25 August 2020. The CAMP and FMP were not published on the website within one month of being approved by the Department. Therefore, a minor non-compliance has been noted.	P002_Lendlease Snapshot CAMP Rev 4 on AB website P003_Lendlease Snapshot FMP Rev 5 on AB website E007_Lendlease_Confirmation of publication of CAMP, FMP on AB website E008_Lendlease_Confirmation of publication of PLRP on AB website

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 6: Compliance within conditions in EPBC 2011/5902

Condition Reference	Condition	Compliance Status	Comment	Evidence
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.	C	During the audit period no additional clearing of CC foraging habitat within Lot 1004, 80L Romero Road and 2611 Marmion Avenue, Alkimos occurred. ¹ Total clearing to date is 21.01 ha.	D004_RobertsDay CBC clearing area 2020
9	<i>Revoked.</i>			
10.1	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: <ul style="list-style-type: none"> 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; 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; c) measures to manage weeds and feral pests; d) bushfire prevention and management measures; e) erosion control measures; f) access management (including boardwalks, pathways, signage and fencing); g) performance indicators and corrective measures; h) monitoring and reporting measures; i) roles and responsibilities of contractors, staff and the person taking the action; and j) time frames for the implementation and management of the above measures. 	CLD	This condition was noted to be compliance in the 2018 ACR and therefore considered complete. In accordance with Condition 4a of EPBC 2011/5902, the CAMP was revised during the audit period. Version 4 of the CAMP was provided to DAWE on 14 October 2019 and first implemented on 14 November 2019.	R004_Strategen EPBC20115902 ACR 2018 R005_Tranen 26.05.2020 FMP CAMP Revegetation Post activity report R0012_Tranen 25.08.2020 FMP CAMP Revegetation Post activity report

¹ As a note, the Lot that clearing occurred during this audit period is now balance Lot 9045 on Deposited Plan 415997.

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 6: Compliance within conditions in EPBC 2011/5902

Condition Reference	Condition	Compliance Status	Comment	Evidence
10.2	The CAMP must be submitted to the Department within 12 months of the date of approval.	CLD	This item is reported as completed in the 2013 ACR.	R002_Lendlease EPBC20115902 ACR 2013
10.3	If the Minister approves the CAMP, the approved plans must be implemented.	C	It is recognised that, as reported in the 2018 ACR, the CAMP's three-year rehabilitation monitoring period has been completed, and therefore the rehabilitation elements of the CAMP have ceased to be implemented. As such, only the ongoing obligations of the CAMP were assessed during this audit period and it was found that of the five ongoing obligations identified all were conformant. Refer to Appendix B for further detail.	
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 .	CLD	This item is reported as compliant in the 2014 ACR, and is considered completed.	R001_Strategen EPBC20115902 ACR 2014
11	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: <ul style="list-style-type: none"> 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; 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; c) measures to manage weeds and feral pests; d) bushfire prevention and management measures; e) erosion control measures; f) access management (including visitor facilities, boardwalks, pathways, signage and fencing); g) performance indicators and corrective measures; h) monitoring and reporting measures; i) roles and responsibilities of contractors, staff and the person taking the action; and j) time frames for the implementation and management of the above measures. 	CLD	The FMP was revised during the audit period in accordance with condition 4. The FMP was reviewed by DAWE and an updated version was accepted under Condition 4a.	E005_DAWA_Confirmation revised MPs Cond4a

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 6: Compliance within conditions in EPBC 2011/5902

Condition Reference	Condition	Compliance Status	Comment	Evidence
11.2	The FMP must be submitted to the Department within 12 months of the date of approval.	CLD	This item is reported as completed in the 2013 ACR.	R002_Lendlease EPBC20115902 ACR 2013
11.3	If the Minister approves the FMP, the approved plans must be implemented.	C	<p>The key actions of the FMP were assessed during this audit period and it was found that of the 70 key actions identified within the FMP:</p> <ul style="list-style-type: none"> • 53 conformant • 16 completed • 2 N/A. <p>Monitoring of the FMP completion criteria commenced in Spring 2015 with final completion due on 9 September 2020. The final Tranen monitoring report is the Autumn Revegetation Monitoring Report (April 2020). However, Tranen has been engaged to continue with weed control and informal inspections until the site is formally handed over to local government.</p> <p>Refer to Appendix C for further detail.</p>	
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 .	CLD	This item is reported as compliant in the 2014 ACR and is considered completed.	R001_Strategen EPBC 2011_5902 ACR 2014
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"> a) 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; b) 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; c) timeframes and survival targets proposed for plantings; d) contingency measures if survival targets are not achieved; e) monitoring and reporting measures; f) roles and responsibilities of contractors, staff and the person taking the action; and g) timeframes for the implementation and management of the above measures. 	CLD	<p>The PLRP was revised during the audit period in accordance with condition 4.</p> <p>The PLRP was reviewed by DAWE and an updated version was accepted under Condition 4a.</p>	<p>E005_DAWE_Confirmation revised MPs Cond4a</p> <p>E002_DAWE_Revised PLRP received by DAWE</p>

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table 6: Compliance within conditions in EPBC 2011/5902

Condition Reference	Condition	Compliance Status	Comment	Evidence
12.2	The PLRP must be submitted to the Department within 12 months of the date of approval.	CLD	This item is reported as completed in the 2013 ACR.	R002_Lendlease EPBC20115902 ACR 2013
12.3	If the Minister approves the PLRP, the approved plans must be implemented.	C	The key actions of the PLRP were assessed during this audit period and found that of the 18 actions identified within the PLRP: <ul style="list-style-type: none"> • 12 conformant • 1 completed • 5 N/A. Refer to Appendix D for further detail.	
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 .	CLD	This item is reported as compliant in the 2014 ACR and is considered completed.	R001_Strategen EPBC 2011_5902 ACR 2014
12A.1	The person taking the action may, with written agreement of the Minister , cease to implement the CAMP, FMP and/or PRLP. If the person taking the action wishes to cease implementing the CAMP, FMP and/or PRLP, the person taking the action must submit a request to the Minister which: <ol style="list-style-type: none"> includes a report demonstrating that the outcomes and performance indicators of the approved CAMP, FMP and/or PRLP have been achieved; specifies the entity that will implement the CAMP, FMP and/or PRLP in the future; includes written agreement from the entity to implanting the approved CAMP, FMP and/or PRLP and sets out the entity's capacity to implement the CAMP, FMP and/or PRLP. 	C	Lendlease issued a report to DAWE detailing their intention to cease to cease implementing, maintaining records and reporting on implementing the CAMP in the eastern portion of the plan area on 14 October 2019. In summary, Lendlease confirmed their intention to: <ul style="list-style-type: none"> • Cease the implementation of the CAMP for the eastern portion of the CAMP area Tranen Autumn 2019 Monitoring Report on the CBC revegetation within the CAMP demonstrating the outcomes and performance indicators of the approved CAMP have been achieved as required. Formal confirmation from the City of Wanneroo was provided agreeing to the implementation schedule post-	E006_RPS Group_Conditions 3, 4a and 12a, PLRP, CAMP, FMP L002_RPS Group Letter of rationale for PLRP, CAMP, FMP revision L003_DAWE CAMP 12A confirmation letter E002_DAWE_Revised PLRP received by DAWE L006_City of Wanneroo Letter agreeing to the implementation schedule post-handover

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



			handover as outlined in the revised CAMP, PLRP and FMP.	
12A.2	If the Minister agrees to the request, the person taking the action may cease to implement the CAMP, FMP and/or PRLP, to maintain associated records (Condition 2) and/or report on implementation of the CAMP, FMP and/or PRLP (Condition 3).	C	DAWE issued a letter to Lendlease on 4 March 2020 to agree to the request in respect of the area shown as "Area A East" in accordance with condition 12A. However, Lendlease will continue to ensure that the objective of the CAMP is met (through weed control and informal inspections) until this portion is handed over to the City of Wanneroo as the long-term land manager.	L003_DAWA CAMP 12A confirmation letter E0011_Lendlease_Confirmation ongoing monitoring eastern CAMP
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).	CLD	This item is reported as completed in the 2013 ACR.	R002_Lendlease EPBC20115902 ACR 2013
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.	CLD	This item is reported as completed in the 2013 ACR.	R002_Lendlease EPBC20115902 ACR 2013
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.	CLD	This item is reported as completed in the 2013 ACR.	R002_Lendlease EPBC20115902 ACR 2013

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



5 References

5.1 General references

- Department of Environment and Energy (DoEE) 2014, *Annual Compliance Report Guidelines*, Canberra.
- Graham A Brown & Associates 2014, *Environmental Audit Guidebook*, Thomson Reuters.
- Lendlease 2020, *Precinct Landscape and Revegetation Plan (Commonwealth)*, Rev 6.
- Office of the Environmental Protection Authority (OEPA) 2012a, *Post Assessment Guideline for Preparing a Compliance Assessment Report*.
- Office of the Environmental Protection Authority (OEPA) 2012b, *Post Assessment Guidelines for Preparing an Audit Table*.
- Office of the Environmental Protection Authority (OEPA) Undated, *Post Assessment Form 2 for a Statement of Compliance*, Perth, WA.
- RPS 2019a, *Conservation Area Management Plan (Commonwealth) - Alkimos Beach*, L1234701:2, Rev 4.
- RPS 2019b, *Foreshore Management Plan (Commonwealth) - Alkimos Beach*, L1234701, Rev 5.

2020 Annual Compliance Report – EPBC 2011/5902
Alkimos Beach



This page has been left blank intentionally.

Appendix A

CBC clearing area (Roberts Day 2020)






LEGEND

 SUBJECT LAND

CARNABYS BLACK COCKATOO


 RETENTION (0.14ha)


 LOSS (21.14ha)

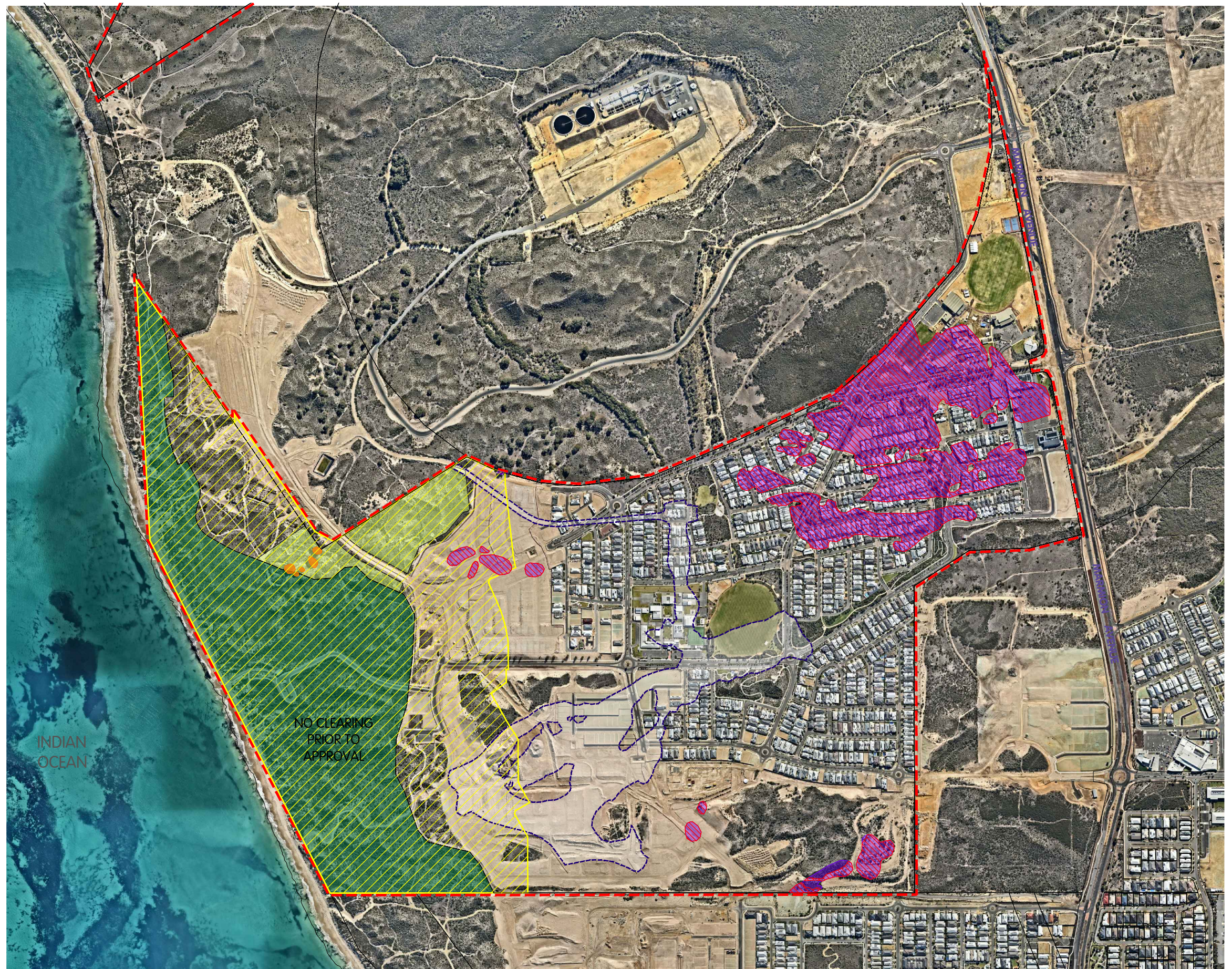
TOTAL AREA - 21.28ha

 CONSERVATION POS

 REGIONAL OPEN SPACE

 AREA PREVIOUSLY
CLEARED DURING
WWTP WORKS

 CLEARED AREA OF
CBC HABITAT - 21.01ha



AERIAL PHOTOGRAPHY
SOURCE: NEARMAPS
YYMMDD: 200510

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



SIZE A3 1:10000



REV	DESCRIPTION	YYMMDD	DRAWN	APPR'D
J	UPDATE ORTHO	200901	SB	RD
I	UPDATE ORTHO & AREA CLEARED	190805	SB	RD
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	J

Appendix B

Conformance with the Conservation Area Management Plan



2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table B1: Conformance with Conservation Area Management Plan

This is 'Emerge-Table Header' style.	Conformance Status	Comment	Evidence
Measures to manage weed and feral pests	C	Weed control, both manual and with the application of herbicide was undertaken on an opportunistic basis during this audit period. Some weeds were manually removed, mainly <i>Sonchus spp.</i> and <i>Euphorbia terracina</i> .	R005_Tranen 26.05.2020 FMP CAMP Revegetation Post activity report R0012_Tranen 25.08.2020 FMP CAMP Revegetation Post activity report
Bushfire prevention and management measures	C	Opportunistic walkovers were undertaken on various occasions to determine any areas of bushfire risk. No significant issues were noted.	D009_Emerge Site visit audit tables and notes R005_Tranen 26.05.2020 FMP CAMP Revegetation Post activity report R0012_Tranen 25.08.2020 FMP CAMP Revegetation Post activity report
Erosion control measures	C	Opportunistic walkovers were undertaken on various occasions to assess erosion control measures. No major issues were noted.	R005_Tranen 26.05.2020 FMP CAMP Revegetation Post activity report R0012_Tranen 25.08.2020 FMP CAMP Revegetation Post activity report
Access management (including pathways, signage and fencing)	C	Opportunistic walkovers were undertaken on various occasions to assess access control. Regular monitoring of the temporary fencing is carried by the construction contractor and no issues were noted. The Spring 2019 Tranen monitoring report noted new weather damage to semi-permanent fence line at end of Graceful Blvd, public damage to semi-permanent fencing line on Leatherback Boulevard and break into gate. New temporary chainmesh fencing was reinstated by Georgiou in the damaged locations.	R005_Tranen 26.05.2020 FMP CAMP Revegetation Post activity report R0012_Tranen 25.08.2020 FMP CAMP Revegetation Post activity report R0013_Georgiou Alkimos Beach fence inspections R0014_Georgiou Alkimos Beach site notes D009_Emerge Site visit audit tables and notes

Appendix C

Conformance with Foreshore Management Plan



2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table C1 Conformance with Foreshore Management Plan

Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
Carnaby's Black Cockatoo Habitat – Revegetation Species						
FMP 1	5.3.1 Carnaby's Black-Cockatoo habitat – revegetation species	The rehabilitation program will both complement the existing tuart trees (<i>Eucalyptus gomphocephala</i>) with an additional 1 ha and a portion (at least 0.93 ha) of the 1 ha supplementary planting of Carnaby's Black-Cockatoo foraging habitat.	N/A	C	Tranen has reported a range of native plants used in this revegetation program for the FMP area.	R006_Trane Autumn 2020 FMP Monitoring R007_Trane Spring 2019 FMP Monitoring
FMP 2		A range of overstorey and understorey species will be planted in order to provide diversity to the vegetation structure and habitat. The species to be used in the rehabilitation program will include: <ul style="list-style-type: none"> • <i>Acacia saligna</i> • <i>Allocasuarina lehmanniana</i> • <i>Eucalyptus gomphocephala</i> 	N/A	C	The list of species used in revegetation consist of a range of overstorey and understorey species.	R006_Trane Autumn 2020 FMP Monitoring R007_Trane Spring 2019 FMP Monitoring P0010_Emerge Associates FMP revegetation (1) P0011_Emerge Associates FMP revegetation (2)
Plant Propagation						
FMP 3	5.4.1 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.	N/A	C	Where available seedlings used for infill planting were propagated from seed or cuttings taken from the site. Otherwise seedlings were propagated from the nearest available provenance.	D009_Emerge Site visit audit tables and notes

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
Seedling Propagation						
FMP 4	5.4.1 .1 Seedling Propagation	Seedlings will be grown by nurseries that are accredited by the Nursery Industry Accreditation Scheme of Australia (NIASA)	N/A	C	Seedlings are grown by Plantrite, an accredited NIASA plant nursery.	D003_Plantrite Seedling invoice
Site Protection						
FMP 5	5.4.2 Prior to Revegetation	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.	N/A	CLD	Initial work in 2015 included closing of 4WD tracks using boulders and fencing within the foreshore area. The 2018 ACR confirmed vegetation and boulders have been placed in the required areas to reduce scouring from vehicles and restrict vehicle activity, therefore this item is considered completed.	R004_Strategen EPBC20115902 ACR 2018
FMP 6		A combination of rabbit exclusion fencing, tree guards, and targeted rabbit control will be employed.	N/A	C	No evidence of any significant pest activity was noted on the site, although previous rabbit activity had been noticed off the north beach road during the Spring 2019 monitoring period. During the site visit, no major areas of	R005_Tranen Spring 2019 FMP Revegetation Post activity report R0012_Tranen Autumn 2020 FMP Revegetation Post activity report R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
					disturbance as a result of rabbits was noted. No further action was considered required. No plastic tree guards were required.	R007_Tranen Alkimos Beach Spring Revegetation Monitoring report D009_Emerge Site visit audit tables and notes
FMP 7		Semi permanent fencing will be installed adjacent to roads and urban subdivision areas during construction.	NA	CLD	The 2018 ACR reported that the FMP area is fenced and therefore this is considered completed.	R004_Strategen EPBC20115902 ACR 2018 R0013_Georgiou Alkimos Beach fence inspections R0014_Georgiou Alkimos Beach site notes
FMP 8		All construction activities will be restricted to the subdivision areas and will avoid the rehabilitation area.	N/A	C	Construction activities have been restricted to the subdivision area.	D009_Emerge Site visit audit tables and notes
Revegetation Site Preparation						
FMP 9	5.4.3 Revegetation Site Preparation	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"> weed spraying commenced, rubbish and debris will be removed and disposed of appropriately. 	N/A	C	Tranen has reported the site preparation management activities in biannual reports.	R005_Tranen Spring 2019 FMP Revegetation Post activity report R0012_Tranen Autumn 2020 FMP Revegetation Post activity report R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
						R007_Tranen Alkimos Beach Spring Revegetation Monitoring report
FMP 10		<ul style="list-style-type: none"> brushing and/or mulching may be used to assist stabilising soil in erosion prone locations as required. 	N/A	C	<p>Tranen has reported that coir netting and brushing have been placed to stabilise the surfaces around the lookout and its access paths, as well as the beach blowout.</p> <p>The Tranen reports have previously stated that at both blowout locations, brushing has been repeatedly removed during the audit period by third party individuals to make various play structures.</p> <p>To deter the removal of brushing by the public at these locations, larger brush has now been wired to star pickets.</p>	<p>R005_Tranen Spring 2019 FMP Revegetation Post activity report</p> <p>R0012_Tranen Autumn 2020 FMP Revegetation Post activity report</p> <p>P0014_Emerge Associates FMP Brushing</p> <p>D009_Emerge Site visit audit tables and notes</p>
Revegetation Method						

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 11	5.4.3 Revegetation Method	Revegetation species will be subdivided into four categories: 1. Beach grasses and herbaceous species adopted for the most exposed locations. 2. Semi-stable dune colonisers adapted to partially protected areas. 3. Plants of protected dunal situations. 4. Plants of protected well stabilised and vegetated areas.	NA	C	Tranen has reported the locations for species in Table 2 of the biannual reports, detailing the four categories as required.	R006_Trannen Alkimos Beach Autumn Revegetation Monitoring report R007_Trannen Alkimos Beach Spring Revegetation Monitoring report D003_Plantrite Seedling invoice
Schedule						
FMP 12	Scheduling	Tube stock used in the revegetation program will be sourced from local accredited nurseries.	NA	C	Refer to FMP 3 and FMP 4.	
FMP 13		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	C	Tranen conducted infill planting around the Lookout and its access paths in June 2020. In the 2019 ACR, Tranen had reported 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.	R006_Trannen Alkimos Beach Autumn Revegetation Monitoring report R007_Trannen Alkimos Beach Spring Revegetation Monitoring report R003_Emerge Associates EPBC20115902 ACR 2019
FMP 14		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	C	Refer to FMP 6	

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 15		Tube stock will mostly be planted at an average density of two plants per m ² dependant on the specific plant species used. The planting density can range from 1.7 m ² to 2 m ² .	NA	C	The initial planting density at the lookout and its blowout, was above two plants per m ² plants. Tranen reported the overall mean plant density within the FMP revegetation area was 2.5 plants per m ² in Spring 2019 and 2.5 plants per m ² in Autumn 2020.	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report R007_Tranen Alkimos Beach Spring Revegetation Monitoring report
FMP 16		Rabbit guards will be used (if required) for tube stocks in the revegetation areas.	N/A	C	Refer to FMP 6.	
FMP 17	Watering	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 require irrigation or extensive hand watering.	N/A	C	No water crystals were considered to be required. Tranen has used fertiliser tablets for planting tube stock to improve survival rates.	D009_Emerge Site visit audit tables and notes
FMP 18	Seedling Planting	Seedlings will be directly planted using planting tubes. Seedlings will be watered before delivery to site on the day of planting.	N/A	C	Tranen confirmed seedlings are directly planted using planting tubes and watered before the day of planting.	D009_Emerge Site visit audit tables and notes

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 19	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. 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.	N/A	N/A	The maintenance activities undertaken during this audit period did not include direct seeding.	R005_Tranen Spring 2019 FMP Revegetation Post activity report R0012_Tranen Autumn 2020 FMP Revegetation Post activity report D009_Emerge Site visit audit tables and notes
FMP 20	Signage	To assist in preventing unauthorised access and trampling of revegetation efforts, signage where appropriate will be installed.	N/A	C	Informal inspections of CAMP and FMP areas during Autumn 2020 monitoring report noted a sign at the Lookout Blowout de-attached after extreme storm events. Tranen reattached sign and no other major damage noted. The signs were noted as being present during the site inspection.	R005_Tranen Spring 2019 FMP Revegetation Post activity report R0012_Tranen Autumn 2020 FMP Revegetation Post activity report P0013_Emerge Associates FMP Signage
FMP 21	Rehabilitation Strategy	The 'Completely Degraded' areas will be planted at an average density of 1.8 plants / m ² (the density planting can range from 1.7 m ² to 2 m ²) dependent on the Carnaby's Black-Cockatoo foraging habitat species plant.	N/A	C	Refer to FMP 15	
FMP 22	Weed Management	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	C	Weed control (both spraying and manual removal) continues to be undertaken as per the FMP requirements. Tranen has reported	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
					weed management activities in biannual reports.	R007_Trannen Alkimos Beach Spring Revegetation Monitoring report R005_Trannen Spring 2019 FMP Revegetation Post activity report R0012_Trannen Autumn 2020 FMP Revegetation Post activity report
FMP 23		Selective herbicides (i.e. grass or broadleaf-specific) will be favoured over general knockdown herbicides.	NA	C	Where weeds were present, weed control activities and herbicide spraying was targeted to avoid native plants. If weeds were in close proximity with natives, manual weeding occurred.	D009_Emerge Site visit audit tables and notes
FMP 24		To ensure that off-target damage is minimised, herbicide spraying operators will only be engaged if they: <ul style="list-style-type: none"> • are appropriately qualified and licensed in herbicide application • have demonstrated experience in the ability to identify, and distinguish between, native and weed species • are familiar with the most appropriate control measures, timing, herbicides, and application rates for the target species 	NA	C	Trannen is qualified to apply herbicides and manage revegetation and have been involved in the project for several years.	

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 25		Weed spraying will be undertaken to manage the abundance and spread of weed species into and within the revegetation area if required.	Contingency	C	<p>Weed control by herbicide spraying and manual removal occurred on numerous occasions between June 2019 and May 2020.</p> <p>Tranen noted during the Autumn 2020 monitoring report that weed cover was negligible across the site, and no new species were identified during the audit period</p>	<p>R006_Trannen Alkimos Beach Autumn Revegetation Monitoring report</p> <p>R007_Trannen Alkimos Beach Spring Revegetation Monitoring report</p> <p>R005_Trannen Spring 2019 FMP Revegetation Post activity report</p> <p>R0012_Trannen Autumn 2020 FMP Revegetation Post activity report</p>
Post-rehabilitation Management						
FMP 26	5.6 Post-rehabilitation Management	To ensure longer-term success of the 1 ha rehabilitation and supplementary planting areas, the rehabilitation areas will be monitored and maintained for five years following initial seedling installation.	5 years post revegetation	C	<p>Tranen was contracted in June 2015 to perform rehabilitation activities and will continue with the monitoring and maintenance in the foreshore area for five years.</p> <p>Tranen has also been engaged to continue with weed control and informal inspections until the site is formally handed over to local government.</p>	<p>R006_Trannen Alkimos Beach Autumn Revegetation Monitoring report</p> <p>R007_Trannen Alkimos Beach Spring Revegetation Monitoring report</p>

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



FMP 27	5.6.1 Completion Criteria	<p>If completion criteria are not met, further infill planting will be required.</p> <table border="1" data-bbox="504 379 1202 906"> <thead> <tr> <th>Year after Planting</th> <th>Year 1</th> <th>Year 2</th> <th>Autumn 2020</th> </tr> </thead> <tbody> <tr> <td>Survival (established plant density both planting and seeding)</td> <td>90% (equivalent to 1.8 plants /m2)</td> <td>70% (equivalent to 1.4 plants /m2)</td> <td>See below</td> </tr> <tr> <td>Average plant density (plants/m2)</td> <td>1.8 to 2.7</td> <td>1.8 to 2.7</td> <td>2.5</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>56 %</td> </tr> <tr> <td>Weeds coverage</td> <td>No greater than 10% cover</td> <td>No greater than 10% cover</td> <td>1%</td> </tr> </tbody> </table>	Year after Planting	Year 1	Year 2	Autumn 2020	Survival (established plant density both planting and seeding)	90% (equivalent to 1.8 plants /m2)	70% (equivalent to 1.4 plants /m2)	See below	Average plant density (plants/m2)	1.8 to 2.7	1.8 to 2.7	2.5	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	56 %	Weeds coverage	No greater than 10% cover	No greater than 10% cover	1%	NA	C	<p>Further infill planting has been conducted in the FMP area where the plant coverage and species richness indicate that revegetation is required. Seedlings for the next planting season have been ordered, primarily for the lookout and its blowout, and some for the beach blowout, which have slightly lower than average plant densities and /or plant % cover.</p> <p>The Tranen 2020 Autumn monitoring report noted the decimation of native vegetation at the lookout blowouts are attributed to human foot traffic, sandboarding and repeated removal of brushing material has been reversed with fencing of the site, installation of anchored brushing material, and infill planting. Native plant cover at the beach blowouts is expected to increase with</p>	<p>R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report</p> <p>R007_Tranen Alkimos Beach Spring Revegetation Monitoring report</p> <p>P0010_Emerge Associates FMP revegetation (1)</p> <p>P0011_Emerge Associates FMP revegetation (2)</p> <p>P0012_Emerge Associates FMP Beach blowout</p>
Year after Planting	Year 1	Year 2	Autumn 2020																							
Survival (established plant density both planting and seeding)	90% (equivalent to 1.8 plants /m2)	70% (equivalent to 1.4 plants /m2)	See below																							
Average plant density (plants/m2)	1.8 to 2.7	1.8 to 2.7	2.5																							
Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	56 %																							
Weeds coverage	No greater than 10% cover	No greater than 10% cover	1%																							

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
					continuing signs of the frontal dune stabilising.	
Rehabilitation and Weed Monitoring and Performance Criteria						
FMP 28	5.7 Rehabilitation and Weed Monitoring	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 each planting event	NA	Rehabilitation is ongoing.	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report R007_Tranen Alkimos Beach Spring Revegetation Monitoring report
FMP 29		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	CLD	Tranen has reported the rehabilitation management activities in biannual reports.	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report R007_Tranen Alkimos Beach Spring Revegetation Monitoring report
FMP 30		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	CLD	Refer to FMP 28.	
FMP 31		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	CLD	Tranen report on monitoring plots and permanent photo reference points in the biannual reports.	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report R007_Tranen Alkimos Beach Spring

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
						Revegetation Monitoring report
FMP 32		Photographic records will be captured prior to construction and annually to qualitatively assess density, diversity and weed cover.	Prior to construction and annually	CLD	Refer to FMP 31.	
FMP 33		The first assessment in spring will assess the developing threats to 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	CLD	This occurred prior to the audit period. Refer to the 2016 ACR.	R0011_Strategen EPBC20115902 ACR 2016
FMP 34		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	CLD	Tranen has reported the rehabilitation management activities in Spring 2018.	R007_Trannen Alkimos Beach Spring Revegetation Monitoring report
FMP 35		The third and subsequent rehabilitation assessments will occur in Autumn and then the subsequent Spring.	In the following Autumn then Spring	CLD	Tranen has again reported the rehabilitation management in Autumn 2019.	R006_Trannen Alkimos Beach Autumn Revegetation Monitoring report
FMP 36		Further remedial works may include additional revegetation works, weed management, rabbit control, additional monitoring.	Following assessments	CLD	Refer to FMP 26 for remedial works.	
Corrective Measures						
FMP 37	5.7.1 Corrective Measures	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"> • Re-brushing or re-mulching areas • Ongoing weed management • Replanting in areas • Tree guard repair/replacement • Fence, sign and pathway maintenance 	In the five years (biannual monitoring)	C	The following management activities have been undertaken throughout the audit period:	R005_Trannen Spring 2019 FMP Revegetation Post activity report R0012_Trannen Autumn 2020 FMP Revegetation Post activity report

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
					<ul style="list-style-type: none"> weed control by herbicide spraying and manual removal site inspections for rabbits infill seedling planting where considered necessary fence inspections and maintenance informal site inspections of signs and pathways. <p>It was determined unnecessary to use tree guards around tube stock, due to the minimal herbivory from rabbits and/or kangaroos across the site. Refer to FMP 6.</p>	<p>R0013_Georgiou Alkimos Beach fence inspections R0014_Georgiou Alkimos Beach site notes</p> <p>D003_Plantrite Seedling invoice</p>

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 38		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	CLD	The average weed cover does not exceed 1%, however additional weed control has occurred to reduce weeds where necessary.	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report R007_Tranen Alkimos Beach Spring Revegetation Monitoring report
FMP 39		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	CLD	Seedling survival is above 70% in two consecutive events.	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report R007_Tranen Alkimos Beach Spring Revegetation Monitoring report
Feral Pests						
FMP 40	5.8 Feral Pests	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	C	Refer to FMP 36.	
FMP 41		Observe for evidence of feral animals during the revegetation monitoring (biannually).	Biannually, during monitoring events	C	Tranen refers to feral animal monitoring within their biannual monitoring reports.	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
						R007_Tranen Alkimos Beach Spring Revegetation Monitoring report
FMP 42		Feral Pest Corrective Measures: Table 7 Implement additional rabbit control measures including fencing and biological controls	Contingency	C	Refer to FMP 36.	
FMP 43		Re-plant seedlings / revegetate areas impacted by rabbits	Contingency	C	Refer to FMP 36.	
FMP 44		Repair rabbit exclusion fencing and replace damaged tree guards.	Contingency	C	Refer to FMP 36.	
Monitoring and Reporting						
FMP 45	5.8.6 Monitoring and Reporting	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	C	Refer to FMP 29.	
FMP 46		Foxes, rabbits and feral cats as part of the revegetation monitoring program will also be monitored and if observed reported.	NA	C	Refer to FMP 40.	
FMP 47		The monitoring report will be submitted to Lendlease 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	C	The biannual monitoring reports were provided by Lendlease, which confirms that Tranen submitted the biannual reports to Lendlease.	
Bushfire Management Key Actions						
FMP 48	Table 9: Bushfire Management Key Actions	No rubbish or vegetation will be burnt on site.	NA	C	Tranen has reported no signs of burning of rubbish or vegetation during their revegetation events or informal site visits.	D009_Emerge Site visit audit tables and notes

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 49		Construct perimeter roads and pathways between the ROS and residential areas to act as the key firebreak(s)	NA	CLD	The 2018 ACR confirmed that this action was compliant and therefore this is considered completed.	R004_Strategen EPBC20115902 ACR 2018
FMP 50		During construction works a semi-permanent fencing will be installed around the FMP boundary interface with the urban development (subdivision) works to prevent access into the revegetated areas and the broader FMP area.	NA	CLD	The 2018 ACR indicates that fencing has been installed around the perimeter of the ROS prior to handover to the CoW. Therefore, this action is considered to be completed.	R004_Strategen EPBC20115902 ACR 2018
FMP 51		Corrective measure will include replanting Carnaby's Black Cockatoos habitat and repair damage to fences as required.	NA	C	Refer to FMP 26.	
Monitoring and Reporting						
FMP 52	5.9.6 Monitoring and Reporting	Any bushfire event in the foreshore will be reported to DFES and the City of Wanneroo.	NA	C	There have been no bushfire events recorded during the audit period.	D009_Emerge Site visit audit tables and notes
FMP 53		The annual monitoring report will include details of fire events.	After monitoring event	C	Refer to FMP 51.	
FMP 54		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	C	Refer to FMP 28.	
Erosion Control Key Actions						
FMP 55		Placement of brush/mulch over revegetation areas susceptible to potential erosion to a depth of 50 mm.	NA	C	Refer to FMP 36.	

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 56	5.10.4 Table 11: Erosion Control Key Actions	Undertake revegetation of bare/open areas in accordance with the FMP Revegetation Management Plan (Tranen 2015)	NA	C	Refer to FMP 36.	
FMP 57		Installation of temporary fencing in/around the revegetation area.	NA	C	Refer to FMP 36.	
FMP 58		Conservation fencing to the City of Wanneroo's requirements will be installed along the borders of the FMP which is adjacent to the Alkimos Beach subdivision prior to handover to the City of Wanneroo.	NA	CLD	Refer to FMP 7.	
FMP 59		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	CLD	Refer to FMP 5.	
Monitoring and Reporting						
FMP 60	5.10.6 Monitoring and Reporting	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	C	Refer to FMP 28.	
FMP 61		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	C	Refer to FMP 46.	
Access Management: Beach Access Key Actions						
FMP 62	5.11.4 Table 13: Beach Access Key Actions	Closure of old vehicle access tracks for rehabilitation in accordance with the FMP Revegetation Management Plan (Tranen 2015).	Post construction	C	Refer to FMP 57.	
FMP 63		During construction works a semi-permanent fencing will be installed around the FMP boundary interface with the road and urban development (subdivision) works to prevent access into the revegetated areas and the broader FMP area.	NA	C	Refer to FMP 49.	

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 64		Undertake additional rehabilitation work of areas impacted from any unauthorised access within the revegetation areas.	NA	C	The 2019 Spring Tranen monitoring report has reported evidence of recent unauthorised 4WD vehicle traffic in the FMP area. Unauthorised 4WD vehicle traffic was noted by Tranen during site visit with some minor damage to southern track closure revegetation. Since then Satterley constructed a fence in this area to preclude 4WD and motorcycle access. This fencing was confirmed as present during subsequent site visit.	R005_Tranen Spring 2019 FMP Revegetation Post activity report R0012_Tranen Autumn 2020 FMP Revegetation Post activity report P0015_Emerge Associates FMP Fencing D009_Emerge Site visit audit tables and notes
FMP 63		Undertake additional weed management if the monitoring determines the weed cover is above the 10% cover	NA	C	Refer to FMP 37.	
FMP 64		Ensure the fences if damaged are repaired or replaced.	NA	C	Refer to FMP 26.	
Monitoring and Reporting						
FMP 65	4.9.6 Monitoring and Reporting	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	C	Tranen reported on unauthorised access in the biannual reports.	R006_Tranen Alkimos Beach Autumn Revegetation Monitoring report R007_Tranen Alkimos Beach Spring

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Activity	Action	Timing	Conformance	Comment	Evidence
FMP 66		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	C	Refer to FMP 46.	
FMP 67	6.0 Compliance Reporting	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	C	Refer to Condition No 3 in Table 6.	
FMP 68		The compliance report will contain a ROS area Carnaby's Black-Cockatoo habitat rehabilitation section which will include the following: <ul style="list-style-type: none"> rehabilitation completion criteria and weed monitoring revegetation and weed contingency actions if required erosion monitoring within the rehabilitation area observations of feral pests temporary fencing and signage of the rehabilitation area fire incidences and the response. 	Annually	C	The 2018 compliance report contains the relevant Carnaby's Black Cockatoo habitat rehabilitation section.	R004_Strategen EPBC20115902 ACR 2018
Land Ownership and Funding						
FMP 69	6.1 Land Ownership and Funding	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.	C	Refer to FMP 36. Tranen is conducting maintenance on behalf of Lendlease for a five-year period.	
City of Wanneroo Handover and Long-Term Management						
FMP 70	7.2 Post-handover implementation	Key management actions defined in this FMP are the responsibility of Lendlease for a period of five years or until the area or parts thereof are handed over to the City of Wanneroo. Post the fifth year and once Lendlease is in a position to hand over the area or parts thereof to the City, an audit report demonstrating compliance with the FMP management actions will be provided to the Commonwealth Department of Environment and Energy and the City of Wanneroo. The management actions outlined include: <ul style="list-style-type: none"> Carnaby's Black Cockatoo revegetation and weed management Fencing and signage installed Feral pest management implemented Bushfire, erosion and access management implemented. 	After a minimum of five years and following handover.	NA	Lendlease is not in a position yet to handover the FMP area.	

Appendix D

Conformance with the Precinct Revegetation and Landscape Plan



2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Table D1: Conformance with the Precinct Landscape and Revegetation Plan

Reference code	Action	Timing	Conformance	Comment	Evidence	
Section 3 Planting schedule						
PLRP 1	<i>Table 3 Objectives, targets and indicators – replication of 5 ha of Carnaby's habitat</i>		Revegetation - during revegetation	C	<p>The performance indicators for the CBC Parks D, F, F1 & F2 PAW and U have been achieved. These parks have now been handed over to the City of Wanneroo.</p> <p>The completed Parks A, D, F, F1, F2, PAW, G and U contribute a total of 2.394 ha (or 47%) of the overall target of the 5.051 ha of CBC habitat. These parks have 18% CBC species (trees and shrubs)</p> <p>The future POS areas (Parks J, O, P and R) will require 82% CBC species (trees and shrubs) over 2.657 ha to achieve the required 50%.</p>	<p>L005_Emerge PLRP Completion of CBC Parks U, D & F</p> <p>L004_CoW Handover letter acceptance Graceful Park, Fairy Park, Stage 7 Streetscapes</p> <p>D006_Emerge Alkimos Beach CBC plant tracking spreadsheet</p> <p>D005_Emerge Alkimos POS actual and proposed CBC plant species</p>
	Objective	Performance indicator				
	Establish the equivalent of at least 5 ha of Carnaby's Black- Cockatoo habitat within the project area, through landscape planting.	<p>1) Establish at least 2,500 CBC habitat trees within the project area across a selected number of public open space (POS) areas</p> <p>2) Within the POS areas delineated by (1) above, at least 50% of plantings of trees and shrubs consist of plant species known to be primary feeding plants for Carnaby's Black Cockatoos. The establishment and survival of tree and shrub plantings is to the satisfaction of the City of Wanneroo.</p> <p>3) The City of Wanneroo accepts handover of landscape plantings of trees and shrubs established in the selected POS areas in accordance with (1) and (2) above.</p>				

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Action	Timing	Conformance	Comment	Evidence																																										
PLRP 2	<p>Table 4 provides an indicative Precinct by Precinct breakdown of the Carnaby's Cockatoo tree targets (refer to Appendix C for a map) to track progress against the ultimate target described in Table 4, across all precincts. These are interim targets for monitoring purposes only; the total of 2,500 trees remains the ultimate compliance target.</p> <p><i>Table 4: Precinct breakdown of Carnaby's Cockatoo tree targets</i></p> <table border="1"> <thead> <tr> <th>Precinct</th> <th>Area (ha)</th> <th>Carnaby's Tree Target</th> <th>Target > 5 ha CBC habitat (ha)</th> <th>Target >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">TOTAL</td> <td>5.051</td> <td>6,988</td> <td>91,820 (55%)</td> <td>74,276 (45%)</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	TOTAL			5.051	6,988	91,820 (55%)	74,276 (45%)	Revegetation - during planning	N/A	No additional CC POS areas have been constructed during this audit period.	E009_Lendlease_Management advice
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																																									
TOTAL			5.051	6,988	91,820 (55%)	74,276 (45%)																																									
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	N/A	No additional CBC POS areas have been constructed during this audit period.	E009_Lendlease_Management advice																																										
PLRP 4	All future planting schedules and landscape designs will be in accordance with the targets in the PLRP.	Revegetation - during planning	C	<p>The tracking sheet provides guidance for future landscape designs.</p> <p>In addition, the future planting requirements were also provided to the contractor.</p>	<p>D006_Emerge Alkimos Beach CBC plant tracking spreadsheet</p> <p>D005_Emerge Alkimos POS actual and proposed CBC plant species</p>																																										

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Action	Timing	Conformance	Comment	Evidence																								
Section 4 Monitoring, Reporting and Review																													
PLRP 5	<p>Table 5 includes timeframes, contingency measures, monitoring and reporting measures for achieving Condition 12 of EPBC 2011/5902.</p> <p><i>Table 5: Monitoring actions</i></p> <table border="1"> <thead> <tr> <th>Performance indicator</th> <th>Monitoring Actions</th> <th>Type of monitoring action</th> <th>Timing</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Establish at least 2,500 CBC habitat trees within landscape plantings in the project area across a selected number of public open space (POS) areas.</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>Monitor success of species planted and determine whether infill planting is required.</td> <td>Within each precinct</td> <td>Annually until handover of each planting stage to City of Wanneroo</td> </tr> <tr> <td rowspan="3">Within the plantings delineated above, at least 50% of plantings of trees and shrubs consist of plant species known to be primary feeding plants for Carnaby's Black Cockatoos.</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>Monitor success of species planted and determine whether infill planting is required.</td> <td>Within each precinct</td> <td>Annually until handover of each planting stage to City of Wanneroo</td> </tr> </tbody> </table>	Performance indicator	Monitoring Actions	Type of monitoring action	Timing	Establish at least 2,500 CBC habitat trees within landscape plantings in the project area across a selected number of public open space (POS) areas.	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	Monitor success of species planted and determine whether infill planting is required.	Within each precinct	Annually until handover of each planting stage to City of Wanneroo	Within the plantings delineated above, at least 50% of plantings of trees and shrubs consist of plant species known to be primary feeding plants for Carnaby's Black Cockatoos.	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	Monitor success of species planted and determine whether infill planting is required.	Within each precinct	Annually until handover of each planting stage to City of Wanneroo	Revegetation - during planning	C	<p>Annual update of the monitoring actions and records has occurred.</p> <p>Lendlease has advised that Total Eden, the landscaping contractor, undertake regular maintenance checks of completed POS. Total Eden has also performed monitoring tasks in the CBC parks not handed over to the City yet.</p> <p>Monitoring success of species planted undertaken regularly throughout the year annually by Total Eden.</p> <p>Infill planting was undertaken within POS G and POS S as evidenced by ABE stock reports.</p>	<p>D006_Emerge Alkimos Beach CBC plant tracking spreadsheet</p> <p>D005_Emerge Alkimos POS actual and proposed CBC plant species</p> <p>R0015_Total Eden POS A, G, S CBC Species monitoring</p> <p>D007_Lendlease ABE stock report_POS G infill</p> <p>D008_Lendlease ABE stock report_POS S infill</p>
Performance indicator	Monitoring Actions	Type of monitoring action	Timing																										
Establish at least 2,500 CBC habitat trees within landscape plantings in the project area across a selected number of public open space (POS) areas.	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																										
	Monitor success of species planted and determine whether infill planting is required.	Within each precinct	Annually until handover of each planting stage to City of Wanneroo																										
Within the plantings delineated above, at least 50% of plantings of trees and shrubs consist of plant species known to be primary feeding plants for Carnaby's Black Cockatoos.	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																										
	Monitor success of species planted and determine whether infill planting is required.	Within each precinct	Annually until handover of each planting stage to City of Wanneroo																										

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Action	Timing	Conformance	Comment	Evidence
Section 4.1 Survival targets					
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	N/A	No CC POS areas were constructed or achieved practical completion within this audit period.	E009_Lendlease_Management advice
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	C	<p>CBC Parks F, F1, F2 PAW have been handed over to the City in this auditing period. Lendlease has advised that Total Eden, the landscaping contractor, undertakes regular maintenance checks of completed POS areas to ensure that they meet a 90% survival target prior to handover.</p> <p>Photos were taken of POS F during the site visit and minimal dead vegetation was noted. In addition, representatives of the CBC foraging species on the tracking sheet were observed to be present.</p> <p>The vegetation within POS G and S was noted as struggling during the site visit. Lendlease has confirmed that they will</p>	<p>L004_CoW Handover letter acceptance Graceful Park, Fairy Park, Stage 7 Streetscapes</p> <p>L005_Emerge PLRP Completion of CBC Parks U, D & F</p> <p>P004_Emerge Associates Photo 2019 POS F (1)</p> <p>P005_Emerge Associates Photo 2019 POS F (2)</p> <p>P006_Emerge Associates Photo 2019 POS G (1)</p> <p>P007_Emerge Associates Photo 2019 POS G (2)</p> <p>P008_Emerge Associates Photo 2019 POS S (1)</p> <p>P009_Emerge Associates Photo 2019 POS S (2)</p> <p>E009_Lendlease_Management advice</p>

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Action	Timing	Conformance	Comment	Evidence
				continue to monitor this area to ensure it meets the 90% target prior to handover.	
Section 4.2 Timeframes for the implementation					
PLRP 8	Handover to the City will be undertaken a minimum of 2 years after practical completion.	24 months following planting	C	<p>Handover of POS D, U, F, F1, F2 and PAW have been handed over to the CoW after a minimum of 2 years after practical completion.</p> <p>The remaining POS are either yet to achieve practical completion or are yet to be handed over to the City.</p>	<p>L005_Emerge PLRP Completion of CBC Parks U, D & F</p> <p>L004_CoW Handover letter acceptance Graceful Park, Fairy Park, Stage 7 Streetscapes</p> <p>L007_CoW Handover letter acceptance Leatherback POS D</p> <p>L008_CoW Handover letter acceptance Leatherback POS U</p> <p>E009_Lendlease_Management advice</p>
PLRP 9	Following handover, maintenance of streetscapes and POS will be managed by the City.	On-going following handover	C	The City had confirmed the handover of landscape works associated with POS F, F1, F2 and PAW during this audit period. No other CBC parks were completed in this auditing period.	<p>L004_CoW Handover letter acceptance Graceful Park, Fairy Park, Stage 7 Streetscapes</p> <p>L001_CoW Handover accepted - POS U</p> <p>L002_CoW Handover accepted - POS D</p>

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Action	Timing	Conformance	Comment	Evidence
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 Appendix G for the breakdown of park and street delivery across the Estate.	On completion of each area During Construction	C	Handover of planting has been staged in accordance with POS and street delivery.	L004_CoW Handover letter acceptance Graceful Park, Fairy Park, Stage 7 Streetscapes
Section 4.3 City of Wanneroo process					
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	N/A	No new stages of landscaping associated with CC habitat were proposed to commence construction in this audit period and therefore no detailed designs were submitted to the City for their review and approval.	D009_Emerge Site visit audit tables and notes
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	C	The City had confirmed that they will accept handover of F, F1, F2 and PAW.	L004_CoW Handover letter acceptance Graceful Park, Fairy Park, Stage 7 Streetscapes
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	C	POS F, F1, F2 and PAW were visited by a CoW officer on 3 September 2019 prior to handover on 12 September 2019.	L004_CoW Handover letter acceptance Graceful Park, Fairy Park, Stage 7 Streetscapes
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	N/A	Refer to Condition 12 A1 in Table 6 .	

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Action	Timing	Conformance	Comment	Evidence
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	C	There are no requirements for streetscape planting within the PLRP.	D009_Emerge Site visit audit tables and notes
PLRP 16	Clearing within the 'no clearing area' on Attachment C 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	CLD	Action assessed as completed during 2014 ACR.	R001_Strategen EPBC 20115902 ACR 2014
Section 4.4 Annual reporting requirements					
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	C	Refer to Condition No. 3 in Table 6 of this document.	
PLRP 18	In accordance with the PLRP the following details are required to be included in the ACR: <ul style="list-style-type: none"> • An update of any completed stages or tendered landscape for future stages. • Report against planting targets and landscape survival targets. • Update of completed tree planting for each stage. • Amendments to precinct and staging plans. • Updated plant schedules for each stage of the development. 	Annually	C	No additional CC POS areas were constructed this audit period. The 2019 ACR provides a summary of the current status of the project, including works undertaken during the audit period and practical completion. Future planting schedules were	R003_Emerge Associates EPBC20115902 ACR 2019 D009_Emerge Site visit audit tables and notes E009_Lendlease_Management advice

2020 Annual Compliance Report – EPBC 2011/5902

Alkimos Beach



Reference code	Action	Timing	Conformance	Comment	Evidence
				provided in Appendix D of the ACR and tracking against the rehabilitation targets and the revised staging plans was provided in Appendix E.	

Appendix E

Plant schedules



Precinct	Park	Status	Actual Area	Planting Area (m2) ^[1]	Planting Area		Use	Classification	Trees		Shrubs		Total		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	63	1,715	81	1,760	1,841	
1	D	Complete [#]	921	461	0.046	50%	Local	Passive Open Space	31	13	243	709	274	722	996	D & E built as one stage, handed over to CoW 06/19
1	F	Complete [#]	12,658	6,962	0.696	55%	Neighbourhood	Passive Open Space	150	129	374	20,822	524	20,951	21,475	F, F1 & F2 built as one stage, handed over to CoW 09/19
1	F1	Complete [#]	1,071	643	0.064	60%	Local	Passive Open Space								F, F1 & F2 built as one stage, handed over to CoW 09/19
1	F2 PAW	Complete [#]	843	801	0.080	95%	Local	Passive Open Space								F, F1 & F2 built as one stage, handed over to CoW 09/19
2	G	Complete	2,425	2,183	0.218	90%	Local	Natural - Conservation Interface	455	63	927	4,133	1,382	4,196	5,578	
3	J	Future*	11,195	9,516	0.952	85%	Neighbourhood	Reflect and Restore - Dune Link	1,905	30	28,390	7,356	30,295	7,386	37,681	~80% of plantings to POS portion are CBC feeding species
3	O	Future*	1,818	1,727	0.173	95%	Local	Passive Open Space	710	-	5,454	566	6,164	566	6,730	~80% of plantings to POS portion 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	2,640	12,220	2,655	14,875	~80% of plantings to POS portion are CBC feeding species
4	R	Future*	13,100	10,742	1.074	82%	Neighbourhood	Natural - Conservation interface	1,570	20	27,221	6,680	28,791	6,700	35,491	~80% of plantings to POS portion are CBC feeding species
2	S	Complete	20,372	6,926	0.693	34%	Neighbourhood	Reflect and Restore - Dune Link	1,513	33	86	10,964	1,599	10,997	12,596	
1	U	Complete [#]	39,862	5,182	0.518	13%	Neighbourhood	Active Park - Include area of high natural value	1,360	120	7,255	18,042	8,615	18,162	26,777	Handed over to CoW 06/19
Totals			118,289	50,510	5.05				7,722	468	82,223	73,627	89,945	74,095	164,040	

Summary 'CBC parks' only (Cond 12a & 12b)	Cond 12b	Cond 12a	Cond 12b						
			Total Trees (CBC)	Total Trees (non CBC)	Total Shrubs (non 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		3,527	403	8,948	56,385	12,475	56,788	69,263
		% of CBC primary feeding species - existing parks					18%	82%	
Future Parks J (partial), O, P, R:	2.657		4,195	65	73,275	17,242	77,470	17,307	94,777
		% of CBC primary feeding species - future parks					82%	18%	
Total ha	5.051		7,722				89,945	74,095	164,040
		% of CBC primary feeding species across 5.051 ha park area					55%	45%	

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

Complete[#] and handed over

Appendix F

Tracking against planting targets



				CBC Park			CBC Park			CBC Park			CBC PARK			CBC PARK			CBC PARK		
<i>Santalum acuminatum</i>	Native Peach (Quandong)	N	Tree	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0
<i>Tipuana tipu</i>	Tipuana	Y	Tree	0	0	0	3	0	3	14	0	14	0	0	0	0	0	0	0	0	0
<i>Xanthorrhoea preissii</i>	Grass tree	Y	Tree	0	0	0	26	0	26	20	0	20	0	0	0	0	0	0	0	0	0
Planting Qty - CBC trees/CBC park				18	45	63	31	13	44	150	129	279	1,360	120	1,480	455	63	518	1,513	33	1,546
Planting Qty - CBC shrubs/CBC park				63	1,715	1,778	243	709	952	374	20,822	21,196	7,255	18,042	25,297	927	4,133	5,060	86	10,964	11,050
Planting Qty. Total CBCs/CBC park				81	1,760	1,841	274	722	996	524	20,951	21,475	8,615	18,162	26,777	1,382	4,196	5,578	1,599	10,997	12,596

Total CBC Plants (Trees and Shrubs) - CBC PARKS ONLY	Total Plants - Trees & Shrubs (CBC PARKS ONLY)
0	0
17	17
46	46
3,527	3,930
8,948	65,333
12,475	69,263
18%	

*Plants for Carnaby's as listed in Groom, C (2011) Plants Used by Carnaby's Black Cockatoo. Department of Environment and Planning, NSW Government.

[#]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.

**POS A, 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

EPBC summary	
Total CBC species only (CBC Parks built to date)	12,475
Total all trees and Shrubs (CBC Parks built to date)	69,263
Percentage of CBC species (CBC Parks built to date)	18%
Total CBC species only (Future CBC Parks)	77,470
Total all trees and Shrubs (Future CBC Parks)	94,777
Percentage of CBC species (Future CBC Parks)	82%

CBC Parks - Total CBCs	89,945
CBC Parks - Total CBC & non CBC	164,040
% of CBC species across 5ha planting area	55%

Appendix G

Precinct and Staging Plan





	PRECINCT 1	PRECINCT 2	PRECINCT 3	PRECINCT 4	COASTAL NODE	OTHER	TOTAL
Residential	19,0533	19,9861	19,9799	20,1113	1,5938		80,7244
Commercial	2,0962	1,0014	0,766	0	0,2845		4,1481
Mixed Use	0,2117	0,1294	0,6484	0	1,1656		2,1551
Private Education	0	9,9018	0	0	0		9,9018
Public Education	3,51	0	0	0	0		3,51
Public Purposes	0	0,874	0,1207	0	0,1402		1,1349
Reserve For Recreation	8,3791	4,1742	3,7862	3,1696	0,8906		20,3997
Conservation Open Space	0	0	0	6,0125	0		6,0125
Regional Open Space	0	0	0	0	41,0761		41,0761
Proposed Regional Open Space					2,1231		2,1231
Balance of LC Land		0,1649					0,1649
Roads	17,0527	11,899	10,2339	11,3308	2,5752		53,0916
AREA TOTAL	50,303	48,1308	35,5351	40,6242	6,6499	43,1992	224,4422
RESIDENTIAL LOTS	494	526	508	532	48		2108
MIXED USE	10	6	2	0	8		26
COMMERCIAL	2	2	3	0	1		8
LOT TOTAL	506	534	513	532	57	0	2142
PART LOTS (NOT INCL. IN TOTAL)	0	0	0	0	11		11

DLL ALK RD1 238 COMMERCIAL ASSESSMENT (MARCH 2018) EXCEL DOC

POS Ref No.	AREA m ²	PRECINCT
A	1966	1
B	16054	1
C	8140	1
D	921	1
E	2276	1
F	12658	1
F1	1071	1
F2 PAW	843	1
G	2425	2
I	6538	4
J	24877	3
K1	4230	3
K2	2847	2
L1	811	2
L2	499	2
M	14346	2
M2 PAW	442	2
N	1067	3
O	1818	3
P	12058	4
Q	5870	3
R	13100	4
S	20372	2
U	39862	1
V	4656	4-CNODE
V2	1513	4-CNODE
V3	2658	4-CNODE
V4	79	4-CNODE
203997		

DLL ALK RD1 238 EXCEL DOC

- LEGEND**
- PRECINCT BOUNDARIES
 - PRECINCT 1
 - PRECINCT 2
 - PRECINCT 3
 - PRECINCT 4
 - COASTAL NODE



DRAFT



robertsday.com.au

SIZE A1

1:4000

0 20 40 60 80 100 120 140 160 180 200

TRAFFIC ENGINEERING DATA
 SOURCE: CAW - 6016 futurebase.dwg
 Y/M/D/D: 14/08/12
CADASTRAL INFORMATION
 SOURCE: WHEELAND
 Y/M/D/D: 14/07/23
 DWG REF: 1512025-034-r1.dwg
 PROJECTION: PCG94

I LOTS MODIFIED - 5TH PRECINCT 4
 H PRECINCT 3 UPDATED PRE-CAL/TABLE UPDATED
 G PRECINCT 2 UPDATED PRE-CAL/TABLE UPDATED
 F PRECINCT 3 & 4 - DESIGN MODIFIED/ CALCS UPDATED
 E PRECINCT 3 & 4 - DESIGN MODIFIED
 REV DESCRIPTION
 Y/M/D/D DRAWN APPRD

180302 SB -
 180228 SB -
 180219 HH/SB RD
 180213 SB RD
 180129 SB
 Y/M/D/D DRAWN APPRD

COMMERCIAL ASSESSMENT (MARCH 2018)
Alkimos Beach
 City of Wanneroo

REF NO. DRAW NO. REV.
DLL ALK RD1 238 1

DISCLAIMER: ISSUED FOR DESIGN INTENT ONLY. ALL AREAS AND DIMENSIONS ARE SUBJECT TO DETAIL DESIGN AND SURVEY

NOTE: NOT TO BE LODGED FOR SUBDIVISION APPROVAL