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Alkimos Beach

EPBC 2011/5902 Annual Compliance Report
2015

Prepared for
Lendlease
by Strategen

November 2015

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Alkimos Beach

EPBC 2011/5902 Annual Compliance Report
2015

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

November 2015

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Client: Lendlease

Report Version	Revision No.	Purpose	Strategen author/reviewer	Submitted to Client	
				Form	Date
Preliminary Draft Report	A	Client review	C Ellis / E Congear / J Mitchell	Electronic	9 October 2015
Draft Report	B	Client review	E Congear / J Mitchell	Electronic	5 November 2015
Final Draft Report	C	Client review and declaration of accuracy	E Congear / J Mitchell	Electronic	11 November 2015
Final Report	0	Submission to DotE	E Congear / J Mitchell	Electronic	18 November 2015

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Declaration of accuracy

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed 

Full name (please print) ANTHONY J ROWBOTTAM

Position (please print) GENERAL MANAGER WA, COMMUNITIES

Organisation (please print including ABN/ACN if applicable) LEND LEASE.

Date 18, 11, 15.

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1. Introduction

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

1.1. Project background

Lendlease Communities (Alkimos) Pty Ltd (Lendlease¹), in partnership with LandCorp, is developing the Alkimos Beach Residential Development (Alkimos Beach, the project) located approximately 40 km northwest of the Perth Central Business District.

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

The project comprises four precincts as detailed in the Precinct Plan (Figure 1). Each precinct comprises several stages.

1.2. Environmental approval to implement the project

The project was referred to the Department of the Environment (DotE) for assessment under the EPBC Act in 2011. The project was approved with conditions on the 30 June 2012 (EPBC 2011/5902). A variation to EPBC 2011/5902 was approved on 24 August 2012, amending condition 14.

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

¹ Lendlease has recently rebranded from 'Lend Lease'. Documents referenced in this Annual Compliance Report that were prepared prior to the rebranding reference the previous two part version of the brand name (i.e. Lend Lease).

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5. Audit conclusions and recommendations for improvement

5.1 EPBC 2011/5902

From the site inspection, interviews and review of documentation provided by Lendlease, AECOM, Tranen and LD Total, the auditors concluded that all conditions of EPBC 2011/5902 were implemented satisfactorily during the audit period.

5.2 Conservation Area Management Plan

5.2.1 Recommendations

From the site inspection, interviews and review of documentation provided by Lendlease and Tranen, the auditors concluded that the CAMP required by condition 10 of EPBC 2011/5902 was satisfactorily implemented during the audit period. No updates or modifications to the plan were made during the audit period. The auditors recommend the following be undertaken:

- ensure Post Activity Reports divide species planted into the four applicable categories, or otherwise consider revision to the CAMP if such division is practicably difficult
- review the timing requirement of audit item CAMP 30 as it appears to refer to, and be inconsistent with, the timing of the biannual monitoring of audit item CAMP 26, which is to be conducted for 3 years.

5.2.2 CAMP performance

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

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

The information required to address CAMP 60 is provided in Table 3, and is based on advice from Lendlease and Tranen.

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

Action item	Status																								
Revegetation completion criteria and weed monitoring	<p>CAMP completion criteria include:</p> <table border="1"> <thead> <tr> <th>Year after planting</th> <th>Year 1</th> <th>Year 2</th> <th>Responsibility for three years post-commencement of works</th> </tr> </thead> <tbody> <tr> <td>Survival of planted seedlings</td> <td>90%</td> <td>70%</td> <td>Lendlease</td> </tr> <tr> <td>Minimum plant density (stems/m²)</td> <td>5</td> <td>4</td> <td>Lendlease</td> </tr> <tr> <td>Minimum plant diversity (% of original number of planted species in project area that have survived)</td> <td>70%</td> <td>70%</td> <td>Lendlease</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>Lendlease</td> </tr> <tr> <td>Weeds coverage</td> <td>10% cover</td> <td>10% cover</td> <td>Lendlease</td> </tr> </tbody> </table> <p>Monitoring is not yet required (first event not due until approximately spring 2015). Monitoring (including weed and erosion monitoring) will be carried out biannually. The revegetation contractor will submit a monitoring report to Lendlease following each formal monitoring event to assess if there are any issues requiring attention. Progress against revegetation completion criteria will be reported one year after planting for the first time and then yearly thereafter for three years.</p>	Year after planting	Year 1	Year 2	Responsibility for three years post-commencement of works	Survival of planted seedlings	90%	70%	Lendlease	Minimum plant density (stems/m ²)	5	4	Lendlease	Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	Lendlease	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lendlease	Weeds coverage	10% cover	10% cover	Lendlease
Year after planting	Year 1	Year 2	Responsibility for three years post-commencement of works																						
Survival of planted seedlings	90%	70%	Lendlease																						
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Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lendlease																						
Weeds coverage	10% cover	10% cover	Lendlease																						
Revegetation and weed contingency actions if required	As per the above. Not yet applicable.																								
Erosion monitoring within the revegetation area	Erosion controls have been put in place as part of the initial revegetation works (brushing and mulch). As per the above the monitoring is not yet required and status will be reported on as part of the formal biannual monitoring report and contingency measures put in place if required.																								
Report observations of feral pests	No observations of pests were noted within the CAMP area during the audit period. Observations of feral pests will be reported as part of biannual monitoring but is not yet required.																								
Temporary fencing, pathways and signage of the revegetation area	Temporary fencing, boulders and signs have been installed in key areas to restrict access to the revegetation areas. Tracks not required for use have been revegetated. Monitoring of the temporary fencing and signage will be carried out on a fortnightly basis in the short term (approximately 2 months but longer if required subject to impact of damage - the need for frequent monitoring will be reviewed after approximately two months) and then annually for the remainder of the maintenance period. Contingency measures will be put in place if required.																								
Report any fire incidences in the foreshore and the response	No fire incidences have been observed during the initial revegetation works. Weed control is in place to reduce fuel levels. Any future incidences and weed monitoring will be reported as part of the biannual monitoring report and contingency measures put in place if required.																								

5.3 Foreshore Management Plan

5.3.1 Recommendations

From the site inspection, interviews and review of documentation provided by Lendlease and Tranen, the auditors concluded that the FMP required by condition 11 of EPBC 2011/5902 was satisfactorily implemented during the audit period. No updates or modifications to the plan were made during the audit period. The auditors recommend the following be undertaken:

- ensure Post Activity Reports divide species planted into the four applicable categories, or otherwise consider revision to the FMP if such division is practicably difficult.

5.3.2 FMP performance

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

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

The information required to address FMP 60 is provided in Table 3, and is based on advice from Lendlease and Tranen.

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

Action item	Status																								
Revegetation completion criteria and weed monitoring	<p>FMP completion criteria include:</p> <table border="1"> <thead> <tr> <th>Year after planting</th> <th>Year 1</th> <th>Year 2</th> <th>Responsibility for five years post-commencement of works</th> </tr> </thead> <tbody> <tr> <td>Survival of planted seedlings</td> <td>90%</td> <td>90%</td> <td>Lendlease</td> </tr> <tr> <td>Minimum plant density (stems/m²)</td> <td>5</td> <td>4</td> <td>Lendlease</td> </tr> <tr> <td>Minimum plant diversity (% of original number of planted species in project area that have survived)</td> <td>70%</td> <td>70%</td> <td>Lendlease</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>Lendlease</td> </tr> <tr> <td>Weeds coverage</td> <td>10% cover</td> <td>10% cover</td> <td>Lendlease</td> </tr> </tbody> </table> <p>Monitoring is not yet required (first event not due until approximately spring 2015). Monitoring (including weed and erosion monitoring) will be carried out biannually. The revegetation contractor will submit a monitoring report to Lendlease following each formal monitoring event to assess if there are any issues requiring attention. Progress against revegetation completion criteria will be reported one year after planting for the first time and then yearly thereafter for five years.</p>	Year after planting	Year 1	Year 2	Responsibility for five years post-commencement of works	Survival of planted seedlings	90%	90%	Lendlease	Minimum plant density (stems/m ²)	5	4	Lendlease	Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	Lendlease	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lendlease	Weeds coverage	10% cover	10% cover	Lendlease
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Survival of planted seedlings	90%	90%	Lendlease																						
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Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lendlease																						
Weeds coverage	10% cover	10% cover	Lendlease																						
Revegetation and weed contingency actions if required	As per the above. Not yet applicable.																								
Erosion monitoring within the revegetation area	Erosion controls have been put in place as part of the initial revegetation works (coir matting, brushing and mulch). As per the above the monitoring is not yet required and status will be reported on as part of the formal biannual monitoring report and contingency measures put in place if required.																								
Report observations of feral pests	No observations of pests were noted within the FMP area during the audit period. Observations of feral pests will be reported as part of biannual monitoring but is not yet required.																								
Temporary fencing, pathways and signage of the revegetation area	Temporary fencing, boulders and signs have been installed in key areas to restrict access to the revegetation areas. Tracks not required for use have been revegetated. Monitoring of the temporary fencing and signage will be carried out on a fortnightly basis in the short term (approximately 2 months but longer if required subject to impact of damage - the need for frequent monitoring will be reviewed after ~two months) and then annually for the remainder of the maintenance period.. Contingency measures will be put in place if required.																								
Report any fire incidences in the foreshore and the response	No fire incidences have been observed during the initial revegetation works. Weed control is in place to reduce fuel levels. Any future incidences and weed monitoring will be reported as part of the biannual monitoring report and contingency measures put in place if required.																								

5.4 Precinct Landscape and Revegetation Plan

5.4.1 Recommendations

From the site inspection, interviews and review of documentation provided by Lendlease and its contractors, the auditors concluded that the PLRP required by condition 12 of EPBC 2011/5902 was satisfactorily implemented during the audit period. No updates or modifications to the plan were made during the audit period. The auditors recommend the following be undertaken:

- further reconciliation between final greenstock reports, 'as-constructed' reports and *Trees for Carnaby's Cockatoo - Tracking Spreadsheet* to ensure accuracy between records
- maintain a separate tracking spreadsheet similar to the *Trees for Carnaby's Cockatoo - Tracking Spreadsheet* that tracks trees and shrubs to enable assessment of PLRP 6 target.

5.4.2 PLRP performance

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

1. Provide an update of any completed or tendered landscape for future stages. A summary of the works undertaken during the audit period, including greenstock reports are provided in Appendix 4.
2. Report against planting targets. Tracking against the rehabilitation targets are provided in Appendix 5, including tree and shrub tracking spreadsheets.
3. Report against survival of landscape. Practical completion, including survival of plants in the landscape area is included in Appendix 6.

Table 5 Compliance with Conditions of EPBC 2011/5902

Condition number	Condition	Evidence/Comment	Compliance status
1	Within 30 days after the commencement of Construction, the person taking the action must advise the Department in writing of the actual date of commencement.	This item is reported as completed in the 2014 Compliance Report (R_001).	C
2	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Accurate records for all applicable conditions have been maintained and were available at the time of the audit and following the audit (refer to other items in this table and Appendices).	C
3.1	Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions.	The 2014 Compliance Report was published on the Alkimos Beach website on 7 November 2014, within 3 months of the anniversary of the commencement of the action (5 September 2015) (C_003). At the time of the audit (4 September 2015) the 2013 and 2014 Compliance Reports remain on the website at: http://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/sustainability-and-environment The 2014 Compliance Report (R_001) addresses compliance with the conditions of approval and implementation of the PLRP. The CAMP and FMP were not relevant to the activities undertaken during the audit period as construction had not yet commenced in the foreshore and conservation area; therefore, they were not assessed as part of the audit.	C
3.2	Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published.	Refer to item 3.1.	C
3.3	Each management plan must be published on the website for the length of the approval.	The PLRP, CAMP and FMP were sighted on the Alkimos Beach website at time of audit (4 September 2015): http://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/sustainability-and-environment	C
4.1	If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plans as specified in the conditions, the person taking the action must submit to the Department for the Minister's written approval a revised version of that management plan.	No activities were required to be undertaken during the audit period that were considered to be otherwise than in accordance with the approved management plans.	C
4.2	The varied activity shall not commence until the Minister has approved the varied management plan in writing. The Minister will not approve a varied management plan unless the revised management plan would result in an equivalent or improved environmental outcome over time.	Refer to item 4.1.	NA
4.3	If the Minister approves the revised management plan that management plan must be implemented in place of the management plan originally approved.	Refer to item 4.1.	NA

Condition number	Condition	Evidence/Comment	Compliance status
5	If the Minister believes that it is necessary or convenient for the better protection of Listed threatened species and communities (sections 18 and 18A) to do so, the Minister may request that the person taking the action make specified revisions to the management plan specified in the conditions and submit the revised management plan for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plan must be implemented. Unless the Minister has approved the revised management plan then the person taking the action must continue to implement the management plan originally approved, as specified in the conditions.	Lendlease advised that no request has been received from the Minister for any management plans to be updated.	NA
6	If, at any time after five years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.	The action has substantially commenced within five years of from the date the approval.	NA
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.	The PLRP, CAMP and FMP were sighted on the Alkimos Beach website at time of audit (1 September 2015): http://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/sustainability-and-environment .	C
7.2	Each management plan must be published on the website within 1 month of being approved and must remain on the website for the life of the project.	The 2014 Compliance Report (R_001) verifies the revised management plans were published on the website in November 2013 prior to approval in April 2014.	C
8	The person taking the action must not clear more than 21.1 ha of Carnaby's Black Cockatoo foraging habitat from Lot 1004, 80L Romero Road and 2611 Marmion Avenue, Alkimos, Western Australia.	Figures provided show clearing extent to date, with no additional clearing in the audit period outside of Carnaby's Cockatoo foraging habitat identified in areas to be retained (R_029).	C
9	<i>Condition 9 deleted.</i>	NA.	NA

Condition number	Condition	Evidence/Comment	Compliance status
10.1	<p>To protect habitat for listed threatened species, the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) detailing management of POS (designated Conservation POS at Attachment A), for the approval by the Minister. The CAMP must include:</p> <ol 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. 	<p>The process of preparation, submission and approval of the CAMP has been previously assessed as compliant in the 2014 Compliance Report (R_001).</p>	C
10.2	<p>The CAMP must be submitted to the Department within 12 months of the date of approval.</p>	<p>This requirement was indicated to have been previously found compliant in the 2013 Compliance Report (R_002).</p>	C
10.3	<p>If the Minister approves the CAMP, the approved plans must be implemented.</p>	<p>The key actions of the CAMP were assessed during this audit period and it was found that of the 60 key actions identified within the CAMP:</p> <ul style="list-style-type: none"> • 28 were conformant • 32 were not applicable at time of audit. <p>Refer to Appendix 1 for further detail.</p>	C
10.4	<p>No construction can commence in the area shown as the No Clearing area on Attachment C until the CAMP is approved by the Minister.</p>	<p>The CAMP was approved on 8 April 2014 (C_002). The 2014 Compliance Report (R_001) confirms that no clearing had occurred in the No Clearing area prior to this date.</p>	C

Condition number	Condition	Evidence/Comment	Compliance status
11	<p>To protect habitat for listed threatened species, the person taking the action must prepare and submit a Foreshore Management Plan (FMP) detailing management of ROS on the project area (designated Regional Parks and Recreation at Attachment A), for approval by the Minister. The FMP must include:</p> <ul style="list-style-type: none"> 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. 	<p>The process of preparation, submission and approval of the FMP has been previously assessed as Compliant in the 2014 Compliance Report (R_001).</p>	C
11.2	<p>The FMP must be submitted to the Department within 12 months of the date of approval.</p>	<p>This requirement was indicated to have been previously found compliant in the 2013 Compliance Report (R_002).</p>	C
11.3	<p>If the Minister approves the FMP, the approved plans must be implemented.</p>	<p>The key actions of the FMP were assessed during this audit period and found that of the 60 key actions identified within the FMP:</p> <ul style="list-style-type: none"> • 28 were conformant • 32 were not applicable at time of audit. <p>Refer to Appendix 2 for further detail.</p>	C
11.4	<p>No construction can commence in the area shown as the No Clearing area on Attachment C until the FMP is approved by the Minister.</p>	<p>The CAMP was approved on 8 April 2014 (C_002). The 2014 Compliance Report (R_001) confirms that no clearing had occurred in the No Clearing area prior to this date.</p>	C

Condition number	Condition	Evidence/Comment	Compliance status
12	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: <ol style="list-style-type: none"> 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; 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; timeframes and survival targets proposed for plantings; contingency measures if survival targets are not achieved; monitoring and reporting measures; roles and responsibilities of contractors, staff and the person taking the action; and timeframes for the implementation and management of the above measures. 	The process of preparation, submission and approval of the PLRP has been previously assessed as Compliant in the 2014 Compliance Report (R_001).	C
12.2	The PLRP must be submitted to the Department within 12 months of the date of approval.	This requirement was indicated to have been previously found compliant in the 2014 Compliance Report (R_001).	C
12.3	If the Minister approves the PLRP, the approved plans must be implemented.	The key actions of the PLRP were assessed during this audit period and found that of the 19 key actions identified within the PLRP: <ul style="list-style-type: none"> 13 were conformant 4 were not applicable at time of audit 2 are completed. Refer to Appendix 3 for detail.	C
12.4	No construction can commence in the area shown as the No Clearing area on Attachment C until the PLRP is approved by the Minister.	The CAMP was approved on 8 April 2014 (C_002). The 2014 Compliance Report (R_001) confirms that no clearing had occurred in the No Clearing area prior to this date.	C
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).	This item has been reported as completed in the 2014 Compliance Report (R_001).	C
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.	This item has been reported as completed in the 2014 Compliance Report (R_001).	C
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.	This item has been reported as completed in the 2014 Compliance Report (R_001).	C

6. References

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

Lend Lease 2012, *Precinct Landscape and Revegetation Plan*, November 2012.

RPS 2013, *Conservation Area Management Plan (Commonwealth)*, report prepared for Lend Lease, September 2013.

RPS 2014, *Foreshore Management Plan (Commonwealth)*, report prepared for Lend Lease, March 2014.

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Appendix 1
Compliance with Conservation Area
Management Plan

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Audit code	Action	Timing	Evidence/comment	Conformance status
Section 4.2 CAMP Revegetation and Monitoring Program				
Section 4.2.2 Carnaby's Black-Cockatoo Habitat - Native Vegetation Species to be Used				
CAMP 1.	A range of indigenous plant species will be used in this revegetation program for the CAMP study area. <i>The proposed native species to be used for rehabilitation purposes in the CAMP study area are outlined in Appendix 2.</i>	NA	Appendix 5 of the Tranen CAMP – Revegetation Plan (R_003) and the post activity reports from Tranen (R_005) confirm that a range of indigenous plant species were used in the revegetation program. Not all species identified in Appendix 2 of the CAMP have been planted; however, the auditors consider this action has been conformed with as a mix of species from Appendix 2 including local species has been used as confirmed by the revegetation specialist.	C
CAMP 2.	A range of overstorey and understorey species will be planted in order to provide diversity to the vegetation structure and habitat. <i>The proposed native species to be used for rehabilitation purposes in the CAMP study area are outlined in Appendix 2.</i>	NA	Appendix 5 of the Tranen CAMP – Revegetation Plan (R_003) confirms that a range of overstorey and understorey species are being used in revegetation.	C
Section 4.2.3.1 Plant Propagation				
CAMP 3.	Tubestock will be propagated from provenance seed at an accredited nursery.	NA	Tranen advised that tubestock used in initial planting has been propagated from provenance seed collected from Shorehaven (approximately 2.5 km north of project area) and propagated by Plantrite. Tranen provided Delivery Notes from Plantrite to verify (F_001). Plantrite is an accredited NIASA nursery (http://www.plantrite.com.au/).	C
CAMP 4.	Tubestock should be appropriately prepared and hardened and be free from pest and disease.	NA	The Tranen CAMP – Revegetation Plan (R_003) outlines the seedling propagation method being implemented. Tranen advised that as an accredited NIASA nursery, Plantrite provide tubestock to industry standards.	C
Section 4.2.3.2 Site Protection - Prior to Revegetation				
CAMP 5.	In order to avoid accidental clearing from construction activities and prevent unauthorised access, the identified Carnaby's Black-Cockatoo habitat in the revegetation area will be fenced.	NA	Appendix 4 of the Tranen CAMP – Revegetation Plan (R_003) shows the location of the fencing around revegetation works. The fencing installed follows areas of previous disturbance such as access tracks to avoid any additional clearing for fence installation. This resulted in a small area of trees mapped as Carnaby's Black-Cockatoo habitat remaining outside the originally installed fencing. To rectify this minor exclusion, the revegetation contractors delineated the area through the installation of star pickets and flagging, which the auditors accept as a form of fencing appropriate to the intention of the action (P_001 to P_006).	C
CAMP 6.	All construction activities will be restricted to the subdivision areas and will avoid the revegetation area.	NA	Site inspection confirmed construction activities are within subdivision areas and have avoided revegetation areas (I_001).	C
CAMP 7.	Signage will be placed on the fences around the revegetation area to inform workers the area is prohibited for construction activities.	NA	Signage sighted during site inspection (P_001).	C
Section 4.2.3.3 Revegetation Site Preparation				
CAMP 8.	To maximise the potential for revegetation success, the areas 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 	NA	Weeds controlled by scalping and deep burial or manual removal where required as outlined in Revegetation Status Report (R_005) and Post Activity Report (R_005) rather than spraying which was deemed by revegetation contractor not to be required prior to revegetation. Strategen was informed by Tranen that rubbish and debris were removed prior to revegetation which conformed with site visit observations - no rubbish or debris was observed with the exception of two drink bottles (P_014) which Tranen advised had been disposed of by a member of the public utilising the four wheel drive track adjacent to the revegetation area the previous day and which would be removed.	C
CAMP 9.	<ul style="list-style-type: none"> brushing and / or mulching if required may be used to assist stabilising soil in erosion prone locations. 	NA	Post Activity reports (R_005) and site inspection verified that mulch (P_011 and P_012) and brush (P_013) was used to stabilise bare soil.	C
Section 4.2.3.4 Revegetation Method				
CAMP 10.	Revegetation species will be subdivided into four categories: <ol style="list-style-type: none"> Beach grasses and herbaceous species adopted for the most exposed locations. Semi-stable dune colonisers adapted to partially protected areas. Plants of protected dunal situations. Plants of protected well stabilised and vegetated areas. 	NA	Strategen was informed by Tranen that species were planted based on their ability to withstand environmental conditions and position within native vegetation structure of the general area, in accordance with the four categories described in the CAMP. The auditors have assessed Lendlease as being conformant with this action; however, recommend Post Activity Reports divide species planted into these four categories, or otherwise consider revision to the CAMP if such division is practicably difficult.	C
Section 4.2.3.5 Scheduling				
CAMP 11.	Tube stock used in the revegetation program will be sourced from local accredited nurseries.		Refer to CAMP 3.	C
CAMP 12.	Planting will be carried out in winter; around June-July when the soil moisture content is high enough for optimum seedling growth without irrigation and after the existing weeds have germinated and have been sprayed.	In winter; around June-July	Planting was undertaken from 31 July 2015 to early September as indicated in Post Activity Reports (R_005). In 2015, rainfall was higher during the month of August compared to early winter; as a result this was a more suitable period to plant to increase chances of seedling survival. The auditors consider this conforms with the key part of the action which states "when the soil moisture content is high enough for optimum seedling growth without irrigation".	C
CAMP 13.	Each tube stock will be planted with a plastic guard to prevent rabbits feeding on plant stock and to protect from strong winds.	NA	Tubestock has been either planted with tree guards (P_007) or within rabbit proof fenced areas (P_008) as outlined in Appendix 4 of the Tranen CAMP – Revegetation Plan (R_003). Confirmed in areas observed by auditors during site inspection. Quote from Agrimate Fencing verifies fence is rabbit proof (F_002).	C
CAMP 14.	Tubestock will mostly be planted at a density of two plants per m ² (as a minimum, species dependent) for rehabilitation.	NA	Tranen Post Activity Reports (R_005) and site inspection (P_009) verify tubestock is being planted at a minimum density of two plants per m ² .	C
CAMP 15.	Rabbit guards will be used (if required) for tube stocks in the revegetation areas.	NA	Refer to CAMP 13.	C
Section 4.2.3.6 Signage				
CAMP 16.	To assist in preventing unauthorised access and trampling of revegetation efforts, additional signage may be installed.	NA	Signage sighted during site inspection (P_010).	C
Section 4.2.3.7 Watering				
CAMP 17.	Some tube stock will be planted with tablets/water crystals during planting to help improve survival rates.	NA	Tranen Post Activity Reports (R_005) verify seedlings planted with fertiliser tablets.	C

Audit code	Action	Timing	Evidence/comment	Conformance status
Section 4.2.4 Weed Management				
CAMP 18.	If weeds are considered an issue within the revegetation area, a weed spraying program to eradicate weed species, prior to installation of seeds and seedlings will be implemented.	Spring and autumn prior to initial revegetation	Weeds controlled by scalping and deep burial or manual removal where required as outlined in Revegetation Status Report (R_005) and Post Activity Report (R_005) rather than spraying which was deemed by revegetation contractor not to be required.	C
CAMP 19.	Table 2 (of CAMP) details herbicide application at the optimum application rate according to that manufacturers guidelines and seasonal timing for specific weed species.	Refer to Table 2 of CAMP	Herbicide application not required (refer to CAMP 18).	NA
CAMP 20.	In addition to herbicide application, other practises to control weeds will include: <ul style="list-style-type: none"> Where necessary, apply a wetting agent in accordance with the herbicide manufacture's recommendations. Use a biodegradable marking dye during all spot spraying tasks. Prior to the application of weed control, install safety-warning signage around the perimeter of the area to be controlled. The warning signage shall include information on the control mechanism and timing and will remain in place until the area has dried. Only undertake spraying when the weather is calm, in order to minimise spray drift. Therefore, spraying will occur on days with a wind speed less than two kilometres per hour in accordance with the Department of Health WA Codes and Regulations. Spraying will avoid times when the plants are under stress such as very hot days and dry to dusty conditions to assist with maximum herbicide uptake. 	NA	Not applicable (refer to CAMP 18).	NA
CAMP 21.	Weed spraying will be undertaken to manage the abundance and spread of weed species into and within the revegetation area if required.	NA	Not applicable. Tranen advised that weed spraying after initial planting has not commenced as not required to date. The revegetation area was not observed by the auditors to be weedy during the site inspection.	NA
Section 4.2.5 Key Actions				
CAMP 22.	The key target completion criteria to monitor the success of the revegetation efforts are specified in Table 3 (of CAMP).	Refer to Table 3 of CAMP	Monitoring not yet required (refer to CAMP 26).	NA
CAMP 23.	Revegetation efforts will be undertaken and monitored for a period of three years from the commencement of the revegetation plantings.	For a period of three years from the commencement of the revegetation plantings.	Monitoring not yet required (refer to CAMP 26).	NA
CAMP 24.	If completion criteria are not met, further infill planting will be required.	NA	Monitoring not yet required (refer to CAMP 26).	NA
Section 4.2.7 Monitoring and Reporting				
CAMP 25.	Following planting, the areas of revegetation will be reviewed six weeks after planting and any new weed growth will be hand removed from 0.5 m around any new seedling.	Following planting, 6 weeks after planting	Monitoring not yet required (monitoring due in approximately mid October 2015, outside the audit period).	NA
CAMP 26.	The revegetation areas will be monitored biannually (including weed monitoring) each spring and autumn and maintained for a three year period after installation within each site.	Biannually (Spring and Autumn) for 3 years	Monitoring not yet required (first monitoring due spring 2015, outside the audit period).	NA
CAMP 27.	A monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	Following each formal monitoring event	Monitoring not yet required.	NA
CAMP 28.	Monitoring plot, of 5 m x 5 m will be established per revegetation area as well as one permanent photograph reference point at each monitoring plot.	NA	Monitoring not yet required.	NA
CAMP 29.	Photographic records will be captured prior to construction and annually to qualitatively assess density, diversity and weed cover.	Prior to construction and annually	Monitoring not yet required.	NA
CAMP 30.	Monitoring and management activities that may be required in the two years include but are not limited to the following: <ul style="list-style-type: none"> repairs and replacement of damaged or failed areas of revegetation to meet the completion criteria. 	In the two years (biannual monitoring)	The auditors recommend the timing requirement of this action be reviewed as it appears to refer to, and be inconsistent with, the timing of the biannual monitoring of CAMP 26, which is to be conducted for 3 years.	NA
CAMP 31.	<ul style="list-style-type: none"> replacement of seedlings that have died to meet the completion criteria. 	NA	Refer to CAMP 30.	NA
CAMP 32.	<ul style="list-style-type: none"> weed control. 	NA	Refer to CAMP 30.	NA
CAMP 33.	The first assessment in spring will assess the developing threats, the stabilisation of each area and the short-term survival of the seedlings and weed cover.	Spring	Monitoring not yet required (refer to CAMP 26).	NA
CAMP 34.	The second and third assessment would occur in the following autumn 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 autumn	Monitoring not yet required (not due until autumn 2016, then autumn 2017).	NA
CAMP 35.	The emergence of summer weeds will also be assessed, so that control can be scheduled as required.	Summer	Monitoring not yet required (refer to CAMP 26 and CAMP 34).	NA
Section 4.3: Feral pests				
Table 5: Feral Pest Key Actions				
CAMP 36.	Install signage outlining that dogs are to be restrained in the CAMP area - only for the proposed paths that go through or near the revegetation areas.	NA	Public access to CAMP area is restricted at this stage; as such, signage is not yet required.	NA

Audit code	Action	Timing	Evidence/comment	Conformance status
CAMP 37.	Observe for evidence of feral animals during the revegetation monitoring (biannually).	Biannually, during monitoring events	Monitoring not yet required (refer to CAMP 26).	NA
Section 4.3.6 Monitoring and Reporting				
CAMP 38.	The revegetation areas will be monitored biannually each spring and autumn and maintained for a three-year period after installation within each site.	Biannually (Spring and Autumn) for 3 years	Monitoring not yet required (refer to CAMP 26).	NA
CAMP 39.	Foxes, rabbits and feral cats as part of the revegetation monitoring program will also be monitored and if observed reported.	NA	Monitoring not yet required (refer to CAMP 26).	NA
CAMP 40.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	After monitoring event	Monitoring not yet required (refer to CAMP 26).	NA
Section 4.4 Bushfire				
Table 7: Bushfire Management Key Actions				
CAMP 41.	No rubbish or vegetation will be burnt on site.	NA	Tranen Occupational Health, Safety and Environment Statement of Commitment (signed) within the <i>Alkimos Beach Foreshore and Conservation Area Rehabilitation Environment, Health and Safety Management Plan</i> (R_004) states the following commitment: "Not lighting fires on work sites, and carrying a fire extinguisher in each vehicle in case of vehicle fires." No evidence of any burning of vegetation or rubbish was observed during site inspection.	C
CAMP 42.	Reduced fuel levels in the revegetation area through weed control as required. This is in accordance with Section 4.2.6.	NA	Weeds controlled by scalping and deep burial or manual removal where required (refer to CAMP 18).	C
CAMP 43.	The perimeter roads and dedicated pathways between the conservation POS area and the pathways act as key firebreak(s).	NA	Perimeter roads still under construction. Pathways not yet constructed.	C
CAMP 44.	Provide records of any fires in the conservation POS area to the City of Wanneroo / DFES.	NA	No fires recorded.	C
Section 4.4.6 Monitoring and Reporting				
CAMP 45.	The monitored of weeds will be undertaken biannually each spring and autumn and maintained for a three-year period.	Biannually (Spring and Autumn) for 3 years	Monitoring not yet required (refer to CAMP 26). The action wording is slightly unclear, with 'monitored' likely meant to be 'monitoring'.	NA
CAMP 46.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	After monitoring event	Monitoring not yet required (refer to CAMP 26).	NA
Section 4.5 Erosion Table 9: Erosion Control Key Actions				
CAMP 47.	Placement of brush/mulch over revegetation areas that are have bare soil exposed to the elements.	NA	Post Activity reports (R_005) and site inspection verified that mulch (P_011 and P_012) and brush (P_013) was used to stabilise bare soil.	C
CAMP 48.	Undertake revegetation of bare / open areas of risk in the revegetation area.	NA	Appendix 4 of the Tranen CAMP – Revegetation Plan (R_003) shows the revegetation planned for areas that are bare and open. Revegetation of these areas confirmed during site visit (example areas shown in P_007, P_009, and P_012).	C
CAMP 49.	Installation of temporary fencing in / around the revegetation area.	NA	Refer to CAMP 5. In addition, Tranen advised that tracks being revegetated are physically blocked off at each end using large limestone blocks to prevent vehicles from accessing the revegetation areas. This was verified during site visit (P_015).	C
CAMP 50.	Installation of education signage informing the community / visitors beach of the revegetation areas - only on paths near or going through the rehabilitation area.	NA	Public access to CAMP area is restricted at this stage; as such, signage is not yet required.	NA
Section 4.5.6 Monitoring and Reporting				
CAMP 51.	Monitoring of the erosion / open areas in the revegetation area will be biannually each spring and autumn and maintained for a three year period as part of the revegetation monitoring.	Biannually (Spring and Autumn) for 3 years	Monitoring not yet required (refer to CAMP 26).	NA
CAMP 52.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any erosion issue(s) requiring attention.	After monitoring event	Monitoring not yet required (refer to CAMP 26).	NA
CAMP 53.	Lend Lease will monitor annually the integrity of the temporary fencing, pathways and signage until hand over to the City of Wanneroo.	Annually	Monitoring not yet required (first event not due until approximately spring 2016).	NA
Section 4.6 Access Management Table 11: Access Management Key Actions				
CAMP 54.	Control beach access routes and access points - only for the proposed paths that go through or near the revegetation areas.	Post construction	Not applicable.	NA
CAMP 55.	Undertake revegetation if required of tracks not required for pedestrian access, within the revegetation areas.	NA	Appendix 4 of the Tranen CAMP – Revegetation Plan (R_003) shows the revegetation planned for areas which includes the tracks not required. Revegetation of these areas confirmed during site visit (example areas shown in P_007, P_009, and P_012).	C
CAMP 56.	Installation of temporary fencing in / around the revegetation area.	NA	Refer to CAMP 5. In addition, Tranen advised that tracks being revegetated are physically blocked off at each end using large limestone blocks to prevent vehicles from accessing the revegetation areas. This was verified during site visit (P_015).	C
CAMP 57.	Installation of education signage informing the community / visitors of access points and revegetation areas - only for the proposed paths that go through or near the revegetation areas.	NA	Public access to CAMP area is restricted at this stage; as such, signage is not yet required.	NA

Audit code	Action	Timing	Evidence/comment	Conformance status
Section 4.6.6 Monitoring and Reporting				
CAMP 58.	Lend Lease will monitor annually the integrity of the temporary fencing, pathways and signage until hand over to the City of Wanneroo.	Annually until handover to the City of Wanneroo	Monitoring not yet required (first event not due until approximately spring 2016).	NA
Section 5.0 Monitoring and Reporting Measures				
CAMP 59.	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	Refer to condition 3 of EPBC Act approval.	C
CAMP 60.	<p>The compliance report will contain a conservation area (CAMP) Carnaby's Black Cockatoo habitat revegetation section which will include the following:</p> <ul style="list-style-type: none"> • revegetation completion criteria and weed monitoring • revegetation and weed contingency actions if required • erosion monitoring within the revegetation area • report observations of feral pests • temporary fencing, pathways and signage of the revegetation area • report any fire incidences in the foreshore and the response. 	Annually	<p>The 2014 Compliance Report did not include this item as implementation of the CAMP had not yet commenced.</p> <p>In this 2015 report refer to Section 5.</p>	NA.

Appendix 2
Compliance with Foreshore
Management Plan

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Audit code	Action	Timing	Evidence/comment	Conformance status
Section 5.2.2 Carnaby's Black Cockatoo Habitat – Native Vegetation Species to be Used				
FMP 1.	A range of native plant species will be used in this revegetation program for the foreshore area. <i>The proposed native species to be used for rehabilitation purposes in the foreshore area are outlined in Appendix 2.</i>	NA	Appendix 6 of the Tranen FMP – Revegetation Plan (R_006) and the post activity reports from Tranen (R_005) confirm that a range of indigenous plant species were used in the revegetation program. Not all species identified in Appendix 2 of the CAMP have been planted; however, the auditors consider this action has been conformed with as a mix of species from Appendix 2 including local species has been used as confirmed by the revegetation specialist.	C
FMP 2.	A range of overstorey and understorey species will be planted in order to provide diversity to the vegetation structure and habitat. The proposed native species to be used for rehabilitation purposes in the foreshore area are outlined in Appendix 2.	NA	Appendix 6 of the Tranen FMP – Revegetation Plan (R_006) confirms that a range of overstorey and understorey species are being used in revegetation.	C
Section 5.2.3.1 Plant Propagation				
FMP 3.	Tubestock will be propagated from provenance seed at an accredited nursery.	NA	Tranen advised that tubestock used in initial planting has been propagated from provenance seed collected from Shorehaven (approximately 2.5 km north of project area) and propagated by Plantrite. Tranen provided Delivery Notes from Plantrite to verify (F_001). Plantrite is an accredited NIASA nursery (http://www.plantrite.com.au/).	C
FMP 4.	Tubestock should be appropriately prepared and hardened and be free from pest and disease.	NA	The Tranen FMP Revegetation Plan (R_006) outlines the seedling propagation method being implemented. Tranen advised that as an accredited NIASA nursery, Plantrite provide tubestock to industry standards.	C
Section 5.2.3.2 Site Protection – Prior to Revegetation				
FMP 5.	A temporary fence will be positioned around the retained Carnaby's Black-Cockatoo habitat and revegetation area (1 ha).	NA	Fencing was sighted during the audit that separated the Conservation areas from the Foreshore areas (P_008). The fencing installed follows areas of previous disturbance such as access tracks to avoid any additional clearing for fence installation. This resulted in a small area of trees mapped as Carnaby's Black-Cockatoo habitat remaining outside the originally installed fencing (within both the conservation and foreshore areas). To rectify this minor exclusion, the revegetation contractors delineated the area through the installation of star pickets and flagging, which the auditors accept as a form of fencing appropriate to the intention of the action (P_001 to P_006). Additional photo evidence was provided by Lendlease identifying the fencing of the foreshore area (P_017).	C
FMP 6.	All construction activities will be restricted to the subdivision areas and will avoid this foreshore area.	NA	Site inspection confirmed construction activities are within subdivision areas and have avoided revegetation areas (I_001).	C
FMP 7.	Signage will be placed on the temporary fence(s) around the retained Carnaby's Black Cockatoo habitat and revegetation area to inform workers the area is prohibited for construction activities.	NA	Signage sighted during site inspection (P_001). Retained Carnaby's Black Cockatoo (CBC) habitat was fenced and demarcated utilising bunting and star-pickets (P_002, P_003, P_004, P_005, and P_006).	C
Section 5.2.3.3 Revegetation Site Preparation				
FMP 8.	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 if required. 	NA	Weeds controlled by manual removal where required as outlined in Revegetation Status Report (R_005) and Post Activity Report (R_005) rather than spraying which was deemed by revegetation contractor not to be required prior to revegetation. Strategen was informed by Tranen that rubbish and debris was removed prior to revegetation.	C
FMP 9.	<ul style="list-style-type: none"> brushing and l or mulching if required may be used to assist stabilising soil in erosion prone locations as required. 	NA	Post Activity reports (R_005) verified that coir netting was used to stabilise bare soil.	C
Section 5.2.3.4 Revegetation Method				
FMP 10.	Revegetation species will be subdivided into four categories: <ol style="list-style-type: none"> Beach grasses and herbaceous species adopted for the most exposed locations. Semi-stable dune colonisers adapted to partially protected areas. Plants of protected dunal situations. Plants of protected well stabilised and vegetated areas. 	NA	Strategen was informed by Tranen that species were planted based on their ability to withstand environmental conditions and position within native vegetation structure of the general area, in accordance with the four categories described in the FMP. The auditors have assessed Lendlease as being conformant with this action; however, recommend Post Activity Reports divide species planted into these four categories, or otherwise consider revision to the FMP if such division is practicably difficult.	C
Section 5.2.3.5 Scheduling				
FMP 11.	Tube stock used in the revegetation program will be sourced from local accredited nurseries.	NA	Refer to FMP 3	C
FMP 12.	Planting will be carried out in winter; around June-July when the soil moisture content is high enough for optimum seedling growth without irrigation and after the existing weeds have germinated and have been sprayed.	In winter; around June-July	Planting was undertaken from 31 July 2015 to early September as indicated in Post Activity Reports (R_005). In 2015, rainfall was higher during the month of August compared to early winter; as a result this was a more suitable period to plant to increase chances of seedling survival. The auditors consider this conforms with the key part of the action which states "when the soil moisture content is high enough for optimum seedling growth without irrigation".	C
FMP 13.	Each tube stock will be planted with a plastic guard to prevent rabbits feeding on plant stock and to protect from strong winds.	NA	Tubestock has been planted with tree guards (R_005).	C
FMP 14.	Tube stock will mostly be planted at a density of two plants per m ² (as a minimum, species dependent) for rehabilitation.	NA	Tranen Post Activity Reports (R_005) verify tubestock is being planted at a minimum density of two plants per m ² .	C
FMP 15.	Rabbit guards will be used (if required) for tube stocks in the revegetation areas.	NA	Lendlease advised that tree guards have been installed within revegetation within the foreshore area. While this area was not sited during the audit, photo evidence was provided prior to the site inspection which verified this finding (P_017).	C
Section 5.2.3.6 Signage				
FMP 16.	To assist in preventing unauthorised access and trampling of revegetation efforts, additional signage may be installed	NA	Signage verified in photo provided by Lendlease (P_016).	C
Section 5.2.3.7 Watering				
FMP 17.	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 revegetation of the foreshore area (as outlined in Appendix 2) are typically drought tolerant and therefore it is not anticipated these coastal natives will required irrigation or extensive hand watering.	NA	Tranen Post Activity Reports (R_005) verify seedlings planted with fertiliser tablets.	C

Audit code	Action	Timing	Evidence/comment	Conformance status
Section 5.2.4 Weed Management				
FMP 18.	If weeds are considered an issue within the revegetation area, a weed spraying program to eradicate weed species, prior to installation of seeds and seedlings will be implemented.	Each spring and autumn prior to initial revegetation	Weeds controlled by manual removal where required as outlined in Revegetation Status Report (R_005) and Post Activity Report (R_005) rather than spraying which was deemed by revegetation contractor not to be required.	C
FMP 19.	Table 2 (of FMP) details the herbicide application at the optimum application rate according to the manufacturers guidelines and seasonal timing for each weed species.	Refer to Table 2 of FMP	Herbicide application not required (refer to FMP 18).	NA
FMP 20.	In addition to herbicide application, other practises to control weeds will include: <ul style="list-style-type: none"> Where necessary apply a wetting agent in accordance with the herbicide manufacture's recommendations. Use a biodegradable marking dye during all spot spraying tasks. Prior to the application of weed control, Install safety warning signage around the perimeter of the area to be controlled. The warning slgnage shall include information on the control mechanism and timing and will remain in place until the area has dried. Only undertake spraying when the weather is calm, in order to minimise spray drift. Therefore, spraying will occur on days with a wind speed less than two kilometres per hour in accordance with the Department of Health WA Codes and Regulations. Spraying will avoid times when the plants are under stress such as very hot days and dry to dusty conditions to assist with maximum herbicide uptake. 	When wind speed is less than 2 km per hour	Not applicable (refer to FMP 18).	NA
FMP 21.	Weed spraying will be undertaken to manage the abundance and spread of weed species into and within the revegetation area if required.	NA	Not applicable. Weed spraying after initial planting has not commenced.	NA
Section 5.2.5 Key Actions				
FMP 22.	The key target completion criteria to monitor the success of the revegetation efforts are specified in Table 3 (of FMP).	Refer to Table 3 of FMP	Monitoring not yet required (refer to FMP 26).	NA
FMP 23.	Revegetation efforts will be undertaken and monitored for a period of five years from the commencement of the revegetation plantings.	5 years post revegetation	Monitoring not yet required (refer to FMP 26)..	NA
FMP 24.	If completion criteria are not met, further infill planting will be required.	NA	Monitoring not yet required (refer to FMP 26).	NA
Section 5.2.7 Monitoring and Reporting				
FMP 25.	Following planting, the areas of revegetation will be reviewed six weeks post-planting and any new weed growth will be hand removed from 0.5 m around any new seedling.	Following planting, 6 weeks after planting	Monitoring not yet required (monitoring due in approximately mid October 2015, outside the audit period).	NA
FMP 26.	The revegetation areas will be monitored biannually (includes weed monitoring) each spring and autumn, and maintained for a five-year period after installation within each site.	Biannually (Spring and Autumn) fo5 years	Monitoring not yet required.	NA
FMP 27.	A monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	Following each formal monitoring event	Monitoring not yet required (refer to FMP 26).	NA
FMP 28.	Monitoring plot, of 5 m x 5 m will be established per revegetation area as well as one permanent photograph reference point at each monitoring plot.	NA	Monitoring not yet required.	NA
FMP 29.	Photographic records will be captured prior to construction and annually to qualitatively assess density, diversity and weed cover.	Prior to construction and annually	Monitoring not yet required.	NA
FMP 30.	Monitoring and management activities that may be required in the five years include but are not limited to the following: <ul style="list-style-type: none"> repairs and replacement of damaged or failed areas of revegetation to meet the completion criteria. 	In the five years (biannual monitoring)	Monitoring not yet required.	NA
FMP 31.	<ul style="list-style-type: none"> replacement of seedlings that have died to meet the completion criteria. 	NA	Refer to FMP 30.	NA
FMP 32.	<ul style="list-style-type: none"> weed control if required. 	NA	Refer to FMP 30.	NA
FMP 33.	The first assessment in spring will assess the developing threats. the stabilisation of each area and the short-term survival of the seedlings and weed cover.	Spring	Monitoring not yet required (refer to FMP 26).	NA
FMP 34.	The second assessment in the following autumn 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 autumn	Monitoring not yet required (not due until autumn 2016, then autumn 2017).	NA
FMP 35.	The emergence of summer weeds will also be assessed, so that control can be scheduled as required.	Summer	Monitoring not yet required (refer to FMP 26).	NA
Section 5.2.8 Feral Pests				
FMP 36.	Install signage outlining dogs are to be restrained in the revegetation area (not on the beach) - only for the proposed paths that go through or near the revegetation areas.	NA	Public access to FMP area is restricted at this stage; as such, signage is not yet required.	NA
FMP 37.	Observe for evidence of feral animals during the revegetation monitoring (biannually).	Biannually, during monitoring events	Monitoring not yet required (refer to FMP 26).	NA

Audit code	Action	Timing	Evidence/comment	Conformance status
Section 5.2.8.6 Monitoring and Reporting				
FMP 38.	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 3 years	Monitoring not yet required (refer to FMP 26).	NA
FMP 39.	Foxes, rabbits and feral cats as part of the revegetation monitoring program will also be monitored and if observed reported.	NA	Monitoring not yet required (refer to FMP 26).	NA
FMP 40.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	After monitoring event	Monitoring not yet required (refer to FMP 26).	NA
Table 7: Bushfire Management Key Actions				
FMP 41.	No rubbish or vegetation will be burnt on site.	NA	Tranen Occupational Health, Safety and Environment Statement of Commitment (signed) within the <i>Alkimos Beach Foreshore and Conservation Area Rehabilitation Environment, Health and Safety Management Plan (R_004)</i> states the following commitment: "Not lighting fires on work sites, and carrying a fire extinguisher in each vehicle in case of vehicle fires." No evidence of any burning of vegetation or rubbish was observed during site inspection.	C
FMP 42.	Reduced fuel levels in the revegetation area through weed control as required and in accordance with Section 5.2.6.	NA	Weeds controlled by manual removal where required (refer to FMP 18).	C
FMP 43.	The perimeter roads and dedicated pathways between the foreshore reserve and the pathways act as key firebreak(s).	NA	Perimeter roads still under construction. Pathways not yet constructed.	C
FMP 44.	Provide records of any fires in the foreshore to the City of Wanneroo / DFES.	NA	No fires recorded.	C
Section 5.2.9.6 Monitoring and Reporting				
FMP 45.	The monitored of weeds will be undertaken biannually each spring and autumn and maintained for a five year period.	Biannually (Spring and Autumn) for 5 years	Monitoring not yet required (refer to FMP 26).	NA
FMP 46.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	After monitoring event	Monitoring not yet required (refer to FMP 26).	NA
Section 5.2.10 Erosion: Table 9: Erosion Control Key Actions				
FMP 47.	Placement of brush/mulch over revegetation areas susceptible to potential erosion in the revegetation areas.	NA	Post Activity reports (R_005) verify that a mix of coir netting and mulching was used to stabilise bare soil.	C
FMP 48.	Undertake revegetation of bare/open areas of risk in the revegetation area.	NA	Appendix 5 of the Tranen FMP – Revegetation Plan (R_006) shows the revegetation planned for areas that are bare and open. Revegetation of these areas confirmed from Post Activity Reports (R_005).	C
FMP 49.	Installation of temporary fencing in/around the revegetation area.	NA	Temporary fencing installed in/around vegetation areas (P_016). In addition, Tranen advised that tracks being revegetated are physically blocked off at each end using large limestone blocks to prevent vehicles from accessing the revegetation areas. This was verified during site visit (P_015). Refer also to FMP 5	C
FMP 50.	Installation of education signage informing the community/visitors beach of the revegetation areas only on paths near or going through the rehabilitation area.	NA	Public access to FMP area is restricted at this stage; as such, signage is not yet required.	NA
Section 5.2.10.6 Monitoring and Reporting				
FMP 51.	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	Monitoring not yet required (refer to FMP 26).	NA
FMP 52.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any erosion issue(s) requiring attention.	After monitoring event	Monitoring not yet required (refer to FMP 26).	NA
FMP 53.	Lend Lease will monitor annually the integrity of the foreshore fencing, pathways and signage until hand over to the City of Wanneroo.	Annually	Monitoring not yet required (first event not due until approximately spring 2016).	NA
Section 5.2.11 Beach access: Access Management Table 11: Beach Access Key Actions				
FMP 54.	Control beach access routes and access points only for the proposed paths that go through or near the revegetation areas.	Post construction	Not applicable.	NA
FMP 55.	Undertake revegetation if required of tracks not required for pedestrian access, within the revegetation areas.	NA	Appendix 5 of the Tranen FMP– Revegetation Plan (R_006) shows the revegetation planned for areas which includes the tracks not required. Revegetation of these areas confirmed from Post Activity Report (R_005).	C
FMP 56.	Installation of temporary fencing in/around the revegetation area.	NA	Temporary fencing installed in/around vegetation areas (P_016). In addition, Tranen advised that tracks being revegetated are physically blocked off at each end using large limestone blocks to prevent vehicles from accessing the revegetation areas. This was verified during site visit (P_015). Refer also to FMP 5.	C
FMP 57.	Installation of education signage informing the community I visitors beach access points and revegetation areas - only for the proposed paths that go through or near the revegetation areas.	NA	Public access to FMP area is restricted at this stage; as such, signage is not yet required.	NA
5.2.11.6 Monitoring and Reporting				
FMP 58.	Lend Lease will monitor annually the integrity of the temporary fencing, pathways and signage until hand over to the City of Wanneroo.	Annually until handover to the City of Wanneroo	Monitoring not yet required (first event not due until approximately spring 2016).	NA

Audit code	Action	Timing	Evidence/comment	Conformance status
Section 6: Monitoring and Reporting Measures				
FMP 59.	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	Refer to condition 3 of EPBC Act approval.	C
FMP 60.	<p>The compliance report will contain a foreshore Carnaby's Black-Cockatoo habitat revegetation section which will include the following:</p> <ul style="list-style-type: none"> • 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. 	Annually	The 2014 Compliance Report did not include this item as implementation of the FMP had not yet commenced. In this 2015 report refer to Section 5.	NA.

Appendix 3
Compliance with Precinct Landscape
and Rehabilitation Plan

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Audit Code	Action	Timing	Evidence/comment	Conformance Status																		
Section 3 Planting schedule																						
Section 3.1 Replication of greater than 5ha of Carnaby's Cockatoo habitat																						
PLRP 1	Condition 12 (a) of the above approval relates to replicating greater than 5 ha of Carnaby's Black Cockatoo habitat through planned future landscape and streetscape across the development. DotE and Lend Lease determined the approach to meet this requirement during the finalisation of the approval for the project in May / June 2012. It was determined that this requirement specifically relates to established trees list on the DEC Plants for Carnaby's list using the ratio as follows: - 500 trees: 1 ha of habitat Therefore in order to replicate greater than 5 ha of Carnaby's Black Cockatoo habitat, the following ratio will be applied: - 2500 trees: 5 ha of habitat.	Revegetation - during revegetation	The <i>Trees for Carnaby's Cockatoo - Tracking Spreadsheet</i> (D_001) tracks the current progress against targets applied to landscaping areas. A total of 1458 plants suitable for Carnaby's Cockatoo habitat have been planted in Precinct 1 and 2 to date. As such, this action is on track to be achieved.	C (The total target of 2,500 trees has not been met yet; however, Lendlease has yet to complete landscaping and is on track to meet the target at completion)																		
PLRP 2	Table 2 provides a Precinct by Precinct breakdown of the Carnaby's tree targets (refer to Appendix D for map). These targets will be delivered as part of the detailed design of parks and streetscapes in each precinct. Table 2: Precinct breakdown of Carnaby tree targets <table border="1"> <thead> <tr> <th>Precinct</th> <th>Area (ha)</th> <th>Carnaby Tree Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>49.67</td> <td>1500</td> </tr> <tr> <td>2</td> <td>50.72</td> <td>500</td> </tr> <tr> <td>3</td> <td>49.64</td> <td>500</td> </tr> <tr> <td>4</td> <td>33.19</td> <td>500</td> </tr> <tr> <td>TOTAL</td> <td>2500 or 5 ha of habitat</td> <td></td> </tr> </tbody> </table>	Precinct	Area (ha)	Carnaby Tree Target	1	49.67	1500	2	50.72	500	3	49.64	500	4	33.19	500	TOTAL	2500 or 5 ha of habitat		Revegetation - during planning	The <i>Trees for Carnaby's Cockatoo - Tracking Spreadsheet</i> (D_001) tracks the current progress against targets applied to landscaping areas. To date, 1449 Carnaby's Cockatoo habitat trees have been planted in Precinct 1 and 9 trees in Precinct 2. The auditors note that there is an error in Table 2 of the PLRP, the tree target for Precinct 1 should be 1000 trees. This target is proposed to be amended as part of the revised PLRP submitted to DotE (October 2015). Auditors further reviewed the Final Greenstock Reports (R_007 to R_012) or 'as-constructed' reports (R_013, R_014) for this audit period against the <i>Trees for Carnaby's Cockatoo - Tracking Spreadsheet</i> to verify numbers and species planted. Although there were minor discrepancies between these documents, the auditors assessed this action to be on track to be achieved by handover. The auditors recommend further reconciliation between records to ensure accuracy.	C (The total target of 2,500 trees has not been met yet; however, Lendlease has yet to complete landscaping and is on track to meet the target at completion)
Precinct	Area (ha)	Carnaby Tree Target																				
1	49.67	1500																				
2	50.72	500																				
3	49.64	500																				
4	33.19	500																				
TOTAL	2500 or 5 ha of habitat																					
PLRP 3	For each stage of the development a Plant Schedule is prepared.	Construction	Plant schedules are included in Staging Plans for each stage of development (R_015 to R_022).	C																		
PLRP 4	As the project is only in the preliminary stages of construction, only the planting schedule for the first two stages is available. Future Plant Schedules will be supplied annually as part of the Annual Compliance Report to track the progress against the tree targets.	Construction	Refer to PLRP 3.	C																		
PLRP 5	All future planting schedules and landscape designs will be in accordance with the principles in the PLRP. Lend Lease will conduct an audit of tree planting for each stage upon completion and submit the results annually as part of the Annual Compliance Report.	Annually	Planting Schedules prepared to date are in line with the PLRP (R_015 to R_022). Completion as stated in this action is interpreted by the auditors to mean achievement of a Practical Completion certificate. Practical Completion Certificates (R_023 to R_026) and Final Greenstock Reports (R_007 to R_012) in conjunction with the <i>Trees for Carnaby's Cockatoo - Tracking Spreadsheet</i> (D_001) were provided to the auditors as substantiation for landscaping which has been delivered during the audit period.	C																		
PLRP 6	The following table* demonstrates the number of trees under the Plants for Carnaby's list schedule for Stage 1 and 2. This is the format expected to be included in the Annual Compliance Report. (*Table 3).	Prior to completion of Stage 1 and 2 landscaping Annually	The <i>Trees for Carnaby's Cockatoo - Tracking Spreadsheet</i> (D_001) tracks the current progress against targets applied to landscaping areas and is presented in the same format as Table 3 in the PLRP. An earlier version of this spreadsheet was included as Appendix 4in the 2014 Compliance Report (R_001).	C																		
Section 3.2 Target 50% of landscape and streetscape for Carnaby habitat																						
PLRP 7	The Plants for Carnaby targets set in Table 4 have responded accordingly (refer to Appendix E for supporting map). Overall the planting across South Alkimos will meet the 50% under Condition 12(b) of the approval.	Revegetation - during planning	Lendlease is tracking actual planting against the targets set (D_002). The auditors have compared the percentages planted in this spreadsheet to those stated in the <i>Trees for Carnaby's Cockatoo - Tracking Spreadsheet</i> (D_001) and concluded that the percentage of primary feeding plants for Carnaby's Cockatoo planted has only taken into account tree species (not shrubs). Condition 12(b) requires that at least 50% of plantings of trees <u>and shrubs</u> in streetscape and landscape planting must consist of plant species known to be primary feeding plants for Carnaby's Black-Cockatoo. Following the site inspection, a revised tracking spreadsheet has been prepared, including tracking against both trees and shrubs (D_003) which was reviewed as part of the audit. Whilst the 50% target is not currently being met (target is currently 36% for both trees and shrubs), Lendlease has not yet completed landscaping works, therefore they are on track to meet the 50% target.	C (The total target of 50% Carnaby's species trees and shrubs has not been met yet; however, Lendlease has yet to complete landscaping and is on track to meet the target at completion)																		
PLRP 8	In the instance that the existing Plants for Carnaby's list does not provide a great enough diversity of species that are suitable to a coastal environment and endorsed by the City of Wanneroo, Lend Lease will investigate opportunities to include a greater diversity species on that list.	Prior to completion of coastal landscaping areas	Lendlease advised of conflicts between the City of Wanneroo planting requirements and planting targets for Carnaby's Cockatoo foraging species. For example, larger bushes such as Parrot Bush are very common in remnant vegetation; however, they are not permitted to be used in POS areas by CoW as their size poses a safety issue. Lendlease advised further consultation with CoW and DotE will be undertaken to determine on a solution that suits all stakeholders.	C																		
Section 4 Monitoring, Reporting and Review																						
Section 4.2 Survival targets																						

Audit Code	Action	Timing	Evidence/comment	Conformance Status
PLRP 9	For all planting to occur within parks and streetscape, the survival target is 90%. LD Total is contractually bound to meet the 90% survival target and must at its own cost mitigate (replace) any failed trees.	During Construction	Strategen reviewed the available Practical Completion Certificates (R_023 to R_027) and found that direction was given in regards to replacement of failed plants and liability for these actions. The Practical Completion reports do not include species counts. The final Greenstock Reports include 'as constructed' species planted within each stage. Auditors reviewed the Final Greenstock Reports (R_007 to R_012) or 'As-cons' (R_013, R_014) for this audit period against the <i>Trees for Carnaby's Cockatoo - Tracking Spreadsheet</i> to verify numbers and species planted. Although there were minor discrepancies between these documents, the auditors assessed this action to be on track to be achieved by handover. The auditors recommend further reconciliation between records to ensure accuracy and consistency in titles/document codes. For example Final Greenstock Report for Park U (R_011) shows inconsistent numbers to the <i>Trees for Carnaby's Tracking Spreadsheet</i> (D_001).	C
PLRP 10	Prior to handover, the landscape contractor must meet all of the specifications within the landscape contract including 90% tree survival to enable practical completion to be issued and final payment for the contracted work.	During Construction	Consistent with the 2014 compliance audit, the auditors interpreted the term handover in this audit item to mean completion of establishment period by the landscape contractor and commencement of the maintenance period. The auditors reviewed the available Practical Completion Certificates (R_023 to R_027) and found that direction was given in regards to replacement of failed plants and liability for these actions. The Practical Completion reports do not include species counts. The final Greenstock Reports include 'as constructed' species planted within each stage. Auditors reviewed the Final Greenstock Reports (R_007 to R_012) or As-cons (R_013, R_014) for this audit period against the <i>Trees for Carnaby's Cockatoo - Tracking Spreadsheet</i> to verify numbers and species planted.	C
PLRP 11	The survival of planting with the Conservation POS (Park H and I) and the Regional Open Space will be managed through implementation of the Conservation Area Management Plan and Foreshore Management Plan required by Condition 10 and 11 of the Approval respectively.	Ongoing	Refer to CAMP and FMP audit findings (Appendix 1; Appendix 2).	C
Section 4.3 Timeframes for the implementation				
PLRP 12	Handover to the City of Wanneroo (CoW) will be undertaken following 2 years.	24 months following planting	Handover to CoW has not yet occurred.	NA
PLRP 13	Following handover, maintenance of streetscapes and POS will be managed by the CoW.	On-going following handover	Handover to CoW has not yet occurred.	NA
PLRP 14	Handover 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 staging plan in Attachment B for the breakdown of park and street delivery across the Estate.	On completion of each area During Construction	Handover to CoW is not yet required (practical completion has not yet occurred).	NA
PLRP 15	For each stage or park a detailed design is submitted to the City of Wanneroo for their review and support.	Pre-construction	Correspondence between AECOM/Roberts Day and CoW was sighted during the audit, the correspondence includes approval of landscaping for various landscaping components including; Street Tree MasterPlan, Landscape and Irrigation Approval for various parks and streetscapes and Planning approval.	C
PLRP 16	The City of Wanneroo's review assesses the design to ensure it complies with the City's standards and confirm that ultimately the City will be able to manage the area following the required 2 year maintenance period.	Handover	Refer to PLRP 15.	NA
Section 4.4 Restriction on clearing				
PLRP 17	Clearing within the 'no clearing area' on attachment C of the approval will not commence until the Management Plans required under Condition 10-12 of the approval are approved.	Prior to approval of management plans	Action assessed as completed during 2014 compliance audit.	Completed
PLRP 18	Lend Lease will notify the department within 30 days of clearing commencing within the 'no clearing area' on attachment C of the approval.	Within 30 days of clearing commencing	Correspondence from DotE to Lendlease confirms that the 'No Clearing' area of Attachment C is no longer restricted. Refer to 2014 Compliance Audit.	Completed
Section 4.5 Annual reporting requirements				
PLRP 19	As discussed the Annual Compliance Report is required as part of Condition 3 of the approval. In accordance with the PLRP the following details are required: 1. Provide an update of any completed or tendered landscape for future stages. 2. Report against planting targets. 3. Report against survival of landscape	Annually	The 2014 Annual Compliance Report provides a summary of the current status of the project, including works undertaken during the audit period and practical completion. Future planting schedules were provided in Appendix 3 of the report and tracking against the rehabilitation targets was provided in Appendix 4.	C

Appendix 4

Plant schedules

Refer to attached CD

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Appendix 5

Tracking against planting targets

Refer to attached CD

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Appendix 6

Practical completion reports

Refer to attached CD