



EPBC 2009/4796

**Jandakot Airport Expansion,
Commercial Development and Clearance of
Native Vegetation, WA**

**Annual Compliance Report
2013-2014**

Jandakot Airport Holdings Pty Ltd

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1 INTRODUCTION

Jandakot Airport is Western Australia's major General Aviation airport and the only one servicing the Perth metropolitan region. The airport is located approximately 16 kilometres south of the Perth city centre. The airport covers an area of approximately 622 hectares (ha) of land, which is owned by the Commonwealth Government.

On 1 July 1998 the Commonwealth Government sold a 50 year lease over Jandakot Airport, with an option of a 49 year lease extension to Jandakot Airport Holdings (JAH). The lease requires JAH to manage and develop the airport. In managing and developing the airport, JAH complies with Commonwealth legislation, including the *Commonwealth Airports Act 1996*, *Airports (Environment Protection) Regulations 1997* and *Environmental Protection and Biodiversity Conservation Act 1999*.

EPBC referral 2009/4796 (Jandakot Airport Expansion, Commercial Development and Clearance of Native Vegetation, WA) was approved with conditions by the then Minister for Environment, Water, Heritage and Arts in March 2010. This approval allows for clearing of native vegetation within Precincts 1B, 3, 4 and 5 to enable commercial development and the proposed airfield development as detailed in the Master Plan 2009.

The conditions of approval include the development and implementation of various management plans, including an Offset Plan (OP), Conservation Management Plan (CMP), Construction Environmental Management Plan CEMP) and Groundwater Management Plan GMP).

In April 2014 Department of the Environment (DoE) (previously DEWHA and DSEWPAC), approved amendments to the conditions of approval. The amendments included the requirement (Condition 16) for JAH to publish an annual report on their website addressing compliance with each of the conditions of this approval, including implementation of management plans required under the conditions. The purpose of this report is to comply with Condition 16.

1.1 Management Plan Amendments

In addition to the amendments to EPBC conditions of approval, the following amendments were made in 2013/14:

- The OP was amended to reflect approved changes to the timing of the schedule of payments to the WA Department of Parks and Wildlife (DPAW). DoE approval was granted 23/4/14.
- The CMP, including supporting sub-plans as appendices, was reviewed, amended and submitted to the DoE for approval. DoE approval was granted 8/4/14.
- The GMP was reviewed and amended in 2013/14 and submitted to DoE for approval in July 2014. DoE approval is pending.

2 CONDITIONS OF APPROVAL

Table 1 below summarises compliance with EPBC 2009/4796 conditions of approval during 2013/14.

Table 1. EPBC Conditions of Approval (as of 8/4/14)		
Condition		2013/14 Compliance Summary
1	<p>The person taking the action must not clear more than 167 hectares of native vegetation within precincts 1B, 3, 4 and 5 on Jandakot Airport shown in Annexure A. For all clearing the following requirements must be met:</p> <p>a) Vegetation clearing must be undertaken in a staged manner, with clearing only to occur in areas in which project or non-project related construction will commence in the following 12 months.</p> <p>b) Clearing of remnant or regrowth native vegetation within precincts 1A, 1B, 2A and 2B shown at Annexure A is not permitted unless for the purpose of constructing the roads shown in Annexure A, or for establishing or managing firebreaks and emergency access tracks.</p> <p>c) Clearing for the establishment or management of firebreaks and emergency access tracks within precincts 1A, 1B, 2A and 2B shown at Annexure A may only be undertaken if:</p> <p>i. the Conservation Management Plan required under condition 6 provides justification and detail for the locations and areas impacted by the firebreaks / emergency access tracks; and</p> <p>ii. the Conservation Management Plan has been approved by the Minister.</p> <p><i>Note: Vegetation cleared for the maintenance or establishment of new firebreaks and emergency access tracks is excluded from the 167 hectare limit required under condition 1.</i></p>	<p>Compliant.</p> <p>No clearing occurred in 2013/14. As previously reported, JAH has to date cleared 103.4ha (or 93.2 ha when existing cleared areas such as tracks and firebreaks are subtracted from the total).</p> <p>a) N/A 2013/14. No clearing has occurred in 2013/14.</p> <p>b) N/A 2013/14. No clearing has occurred in 2013/14.</p> <p>c) N/A 2013/14. No clearing has occurred in 2013/14.</p>
2	<p>The person taking the action must retain and manage precinct 6 for conservation until both of the following requirements have been fulfilled:</p> <p>a) the successful implementation of rehabilitation requirements under conditions 4 and 5 of this approval; and</p> <p>b) the referral and approval of any clearing activities on precinct 6 under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> or subsequent environmental legislation administered by the Minister.</p>	<p>Compliant.</p> <p>Precinct 6 has been retained and managed as Conservation throughout 2013/14, noting:</p> <p>a) Condition 2a has been satisfied (Conditions 4a, 5 and 6b are no longer active conditions) given rehabilitation of Precincts 7 & 8 are no longer relevant and alternative offsets have been applied.</p> <p>b) EPBC 2013/7032 to clear and develop Precinct 6/6A has been approved by the Minister but no action has yet been taken.</p>
3	<p>The person taking the action must conserve in perpetuity all land in precincts 1A, 1B, 2A and 2B shown at Annexure A, with the exception of that land required to construct the roads shown in Annexure A and clearing required for the establishment or management of firebreaks and emergency access tracks outlined in condition 1</p>	<p>Compliant</p> <p>Precincts 1A, 1B, 2A and 2B remain Conservation Precincts and are managed accordingly. Draft Master Plan 2014 demonstrates these areas remain Conservation Precincts.</p>

Table 1. EPBC Conditions of Approval (as of 8/4/14)

Condition		2013/14 Compliance Summary
	and condition 6(d)v.	
4	<p>The person taking the action must develop and submit a Jandakot Airport Offset Plan which must include but not be limited to:</p> <p>a) The rehabilitation of precincts 7 and 8 shown at Annexure A must take place in accordance with condition 5 and with the consent of Canning City Council. Evidence of consent from Canning City Council must be provided.</p> <p><i>Note: As Canning City Council did not provide consent to condition 4(a) of this approval, condition 4(a), 5 and 6(b) are no longer active conditions. This note has been inserted for clarity during the variation of conditions process, April 2014.</i></p> <p>b) If consent cannot be obtained from Canning City Council to rehabilitate precincts 7 and 8 as required under condition 4(a) by 30 June 2010, the person taking the action must provide to DPaW the sum of \$9.2 million and topsoil from the Jandakot Airport lease site for use in the rehabilitation and conservation of banksia woodland at an alternative site or sites. The areas to be rehabilitated or conserved must be within 45 kilometres of the Jandakot Airport lease site unless the Minister agrees to alternative siting. The transportation costs for the topsoil are to be paid for out of the \$9.2 million. The funding must be provided prior to the commencement of each clearing stage and in proportion to the area cleared.</p> <p>c) The acquisition and protection in perpetuity of a minimum of 1600 hectares of land containing Carnaby's Black-cockatoo (<i>Calyptorhynchus latirostris</i>) foraging habitat. The person taking the action must demonstrate that the proportion of the 1600 hectares of land that has been secured for protection, is not less than the proportion of the land to be cleared on Jandakot Airport each year, prior to that staged annual clearing occurring.</p> <p>d) Provide details of the future ownership, funding arrangements and management of the land to be used as the offset.</p> <p>e) Funding details, including research, on recovery actions for Carnaby's Black-cockatoo (<i>Calyptorhynchus latirostris</i>), for a minimum of \$150,000 per year, over five years. The Jandakot Airport Offset Plan must be submitted to and approved by the Minister prior to construction. The approved Jandakot Airport Offset Plan must be implemented.</p>	<p>Compliant</p> <p>The Jandakot Airport Offset Plan (v12 March 29, 2010) had already been submitted and approved by the Minister. Minor amendments were made to the Offset Plan in 2013/14 to allow for proportional funding to DPaW to be made prior to staged clearing (consistent with amended condition 4b). Current Offset Plan that addresses conditions 4b-4e (approved by DoE on 23/4/14) is published on the JAH website.</p> <p>http://www.jandakotairport.com.au/environment/environment-plans.html</p> <p>Implementation of the Offset Plan is addressed in Table 2.</p>
5	<p>If Canning City Council agrees to the rehabilitation of precincts 7 and 8, as required under condition 4(a), then the person taking the action must develop and submit a Jandakot Airport Rehabilitation Strategy which must include but not</p>	<p>N/A – Condition 5 is no longer an active condition.</p>

Table 1. EPBC Conditions of Approval (as of 8/4/14)

Condition	2013/14 Compliance Summary
<p>be limited to:</p> <p>a) The Bushland Rehabilitation Proposal and Success Criteria report, July 2009.</p> <p>b) Management of precincts 7 and 8 for long term conservation values. The Jandakot Airport Rehabilitation Strategy must be submitted to the Minister after 30 June 2010. The person taking the action cannot clear more than 42 hectares of remnant and regrowth vegetation for the proposed development until the Jandakot Airport Rehabilitation Strategy has been approved by the Minister. The Jandakot Airport Rehabilitation Strategy must be implemented.</p>	
<p>6 The person taking the action must develop and submit a Conservation Management Plan to the Minister. The plan must include measures to manage remnant and regrowth vegetation and native fauna species and flora species in conservation areas, including but not limited to:</p> <p>a) Management of remnant and regrowth vegetation and native fauna species and flora species on the Jandakot Airport lease.</p> <p>b) If Canning City Council agrees to the rehabilitation of precincts 7 and 8, the management of remnant and regrowth vegetation and native fauna species and flora species in precincts 7 and 8.</p> <p>c) If Melville City Council agrees, the management of remnant and regrowth vegetation and native fauna species and flora species in Ken Hurst Park.</p> <p>d) Native vegetation management, including but not limited to:</p> <p>i. Mapping of native vegetation, including type, condition and <i>Phytophthora cinnamomi</i> dieback infested areas;</p> <p>ii. Environmentally significant areas and their protection;</p> <p>iii. Monitoring regimes and survey methods;</p> <p>iv. Thresholds for triggering further management intervention in response to condition 6(d)iii outputs;</p> <p>v. Bushfire management including firebreaks and emergency access tracks;</p> <p>vi. Weed control;</p> <p>vii. <i>Phytophthora cinnamomi</i> dieback control;</p> <p>viii. Rehabilitation and revegetation guidelines;</p> <p>e) Orchid management, including but not limited to:</p> <p>i. Mapping of individual <i>Caladenia huegelii</i> and <i>Drakaea elastica</i> plants;</p> <p>ii. Results of surveys and details of any current and future surveys;</p> <p>iii. Monitoring regimes and survey methods;</p> <p>iv. Thresholds for triggering further management intervention in response to condition 6(e)ii and</p>	<p>Complaint</p> <p>Note Condition 6b is no longer an active condition.</p> <p>The Jandakot Airport CMP (v10, 2010) had already been submitted and approved by the Minister. The CMP was reviewed and amended (v11 21/1/2014) and submitted to DoE for the Minister's approval – which was subsequently granted 8/4/14.</p> <p>The current approved CMP that addresses condition 6 is published on the JAH website. http://www.jandakotairport.com.au/environment/environment-plans.html</p> <p>Implementation of the Conservation Management Plan is addressed in Tables 3.1 – 3.7.</p>

Table 1. EPBC Conditions of Approval (as of 8/4/14)

Condition	2013/14 Compliance Summary
<p>6(e)iii outputs;</p> <p>v. Grand Spider-orchid (<i>Caladenia huegelii</i>) management and translocation procedures;</p> <p>vi. Details and funding arrangements for 'The Jandakot Rare Orchid Research Program: Integrated Conservation and Translocation of <i>Caladenia huegelii</i> – Key Concepts in the Development of an Integrated Conservation Program for Western Australian Caladenia' (Dixon and Swarts, undated);</p> <p>vii. Justification of the road alignment through precinct 1B.</p> <p>f) Fauna management, including but not limited to:</p> <p>i. Mapping of Carnaby's Black-cockatoo (<i>Calyptorhynchus latirostris</i>), Forest Redtailed Black-cockatoo (<i>Calyptorhynchus banksii naso</i>), Quenda (<i>Isoodon obesulus fusciventer</i>) and Western Brush Wallaby (<i>Macropus irma</i>) habitat and occurrence;</p> <p>ii. Monitoring regimes and survey methods for Carnaby's Black-cockatoo (<i>Calyptorhynchus latirostris</i>), Forest Red-tailed Black-cockatoo (<i>Calyptorhynchus banksii naso</i>), Quenda (<i>Isoodon obesulus fusciventer</i>) and Western Brush Wallaby (<i>Macropus irma</i>);</p> <p>iii. Thresholds for triggering further management intervention in response to condition 6(f)i and 6(f)ii outputs;</p> <p>iv. Feral animal control measures for the protection of Quenda (<i>Isoodon obesulus fusciventer</i>) and Western Brush Wallaby (<i>Macropus irma</i>);</p> <p>v. A fauna road crossing strategy to facilitate terrestrial fauna movement;</p> <p>vi. A fencing strategy to facilitate terrestrial fauna movement;</p> <p>vii. Management options for EPBC Act listed or WA priority fauna and flora species found on Jandakot Airport in the future which have not been identified as occurring on site.</p> <p>g) A strategy for public consultation and public participation in the management of the areas mentioned in condition 6(b) and 6(c). The Conservation Management Plan must include a provision to provide an annual Compliance report to the department detailing progress against objectives and targets outlined in the Conservation Management Plan and in the Jandakot Airport Environment Strategy. The Conservation Management Plan must be submitted and approved by the Minister before construction commences. The approved Conservation Management Plan must be implemented.</p>	

Table 1. EPBC Conditions of Approval (as of 8/4/14)

	Condition	2013/14 Compliance Summary
7	<p>The person taking the action must develop and submit a Jandakot Groundwater Mound Management Plan which must include but not be limited to:</p> <ul style="list-style-type: none"> a) Groundwater monitoring and reporting; b) Provision of groundwater monitoring reports to the Western Australian Department of Water and Water Corporation; c) Address all relevant measures included in the Local Water Management Strategy; d) Schedules for the independent audit of groundwater monitoring results and reports; e) Spill avoidance, management and rehabilitation measures and procedures; f) The introduction of a sewerage system; <p>The Jandakot Groundwater Mound Management Plan must be submitted within four (4) months of the date of this approval. Construction must not commence within precinct 5 until the Jandakot Groundwater Mound Management Plan has been approved by the Minister. The approved Jandakot Groundwater Mound Management Plan must be implemented.</p>	<p>Compliant</p> <p>The Jandakot Airport Groundwater Management Plan had already been submitted and approved by the Minister. Minor amendments (V4 3/7/12) were approved by the Minister in 2012. This current approved Groundwater Management Plan that addresses condition 7 is published on the JAH website. http://www.jandakotairport.com.au/environment/environment-plans.html</p> <p>The GWMP was further reviewed and amended in early 2014 and submitted to DoE for approval in July 2014 (approval pending). Implementation of the Groundwater Management Plan is addressed in Table 4.</p>
8	<p>The person taking the action must develop and submit a Construction Environment Management Plan (CEMP) to the Minister for approval. The plan must include but not be limited to:</p> <ul style="list-style-type: none"> a) Establishment and maintenance of fences and signage of “no go areas” in areas of priority and threatened species habitat; b) A landscaping vegetation schedule identifying plant species to be planted. Flora species to be planted must consist of Carnaby’s Black-cockatoo (<i>Calyptorhynchus latirostris</i>) foraging plant species; c) Identification and implementation of erosion and sedimentation control measures during and following clearing; d) Identification and implementation of dust control measures during and following clearing; e) Identification and implementation of appropriate weed and dieback hygiene measures; f) Induct clearing and construction workers and contractors about requirements to protect priority and threatened species in accordance with relevant legislation; g) Measures to reduce impacts on listed threatened species; and h) Indicative environmental management checklists to assist with monitoring the implementation of environmental management obligations during construction works. <p>Unless otherwise specified, the person taking the action must submit a report of performance against the requirements of the CEMP annually until final construction is completed.</p>	<p>Compliant</p> <p>The Jandakot Airport CEMP (V7 3/6/10) had already been submitted and approved by the Minister. This current approved CEMP addressing condition 8 is published on the JAH website. http://www.jandakotairport.com.au/environment/environment-plans.html</p> <p>JAH is in the process of reviewing and amending the CEMP to address deficiencies that have been identified within a previous audit. However, noting the only works relating to the CEMP throughout 13/14 were the final stages of site levelling in Precinct 5 and Stage 1 of the East Link Rd (a short length of internal road works which did not require any clearing), JAH intends that this review and amendment will be completed and submitted for the Minister’s approval prior to the next stage of clearing. Implementation of the CEMP is addressed in Table 5.</p>

Table 1. EPBC Conditions of Approval (as of 8/4/14)		
Condition		2013/14 Compliance Summary
	The CEMP must be approved by the Minister before construction commences. The approved CEMP must be implemented.	
9	The person taking the action must ensure that all Major Development Plan proposals are consistent with this <i>Environment Protection and Biodiversity Conservation Act 1999</i> approval.	Compliant MPDs developed during 2013/14 include: <ul style="list-style-type: none"> • Aldi Distribution Centre Site 218 – subsequently approved by the Minister of Infrastructure and Regional Development in August 2014. • Kmart Distribution Centre Site 501 –drafted in preparation for departmental review and Public Comment in 2014/15. Both MDPs are consistent with EPBC 2009/4796 approval.
10	The person taking the action must ensure that all Jandakot Airport Master Plan documents and all Jandakot Airport Environment Strategy documents are consistent with this <i>Environment Protection and Biodiversity Conservation Act 1999</i> approval.	Compliant Current approved Master Plan 2009 and Environment Strategy 2009 are consistent with EPBC 2009/4796 approval. In 2013/14, JAH prepared Jandakot Airport Preliminary Draft Master Plan 2014 (which incorporated the Environment Strategy) in preparation for Public Comment and subsequent approval processes in 2014/15.
11	If the Minister believes that it is necessary or desirable for the better protection of the environment, the Minister may request that the person taking the action make specified revisions to a plan or strategy approved pursuant to conditions 4, 5, 6, 7 and 8, and submit the revised plan or measure for the Minister's approval. The person taking the action must comply with any such request. If the Minister approves a revised plan or measure pursuant to this condition, the person taking the action must implement that plan or measure instead of the plan or measure as originally approved.	Not applicable in 13/14 FY The Minister has not requested specified revisions in 2013/14.
12	If the person taking the action wishes to carry out any activity other than in accordance with a plan or strategy approved pursuant to conditions 4, 5, 6, 7 and 8 the person taking the action must submit for the Minister's approval a request for revision of the plan. If the Minister approves the revised plan or measure so submitted, the person taking the action must implement that plan or measure instead of the plan or measure as originally approved.	Compliant JAH has requested (and received) approval for the revised Offset Plan and Conservation Management Plan. The revised Groundwater Management Plan and Construction Environmental Management Plan will be addressed in 2014/15.
13	If, at any time after 5 years from the date of this approval, the Minister notifies the person taking the action in writing that the Minister is not satisfied that there has been substantial commencement of the development, the development must not thereafter be commenced.	Not applicable in 13/14 FY

Table 1. EPBC Conditions of Approval (as of 8/4/14)		
Condition		2013/14 Compliance Summary
14	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans and strategies required by this approval and report upon management measures undertaken, 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.	Compliant JAH maintains records relating to EPBC 2009/4796 and associated conditions of approval. No DoE request for records was received by JAH and no auditing was undertaken/instructed by DoE.
15	Upon the direction of the Minister , the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister . The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister .	Not applicable in 13/14 FY
16	By 28 October of each year, commencing 2014, the person taking the action must publish an annual report on their website addressing the compliance with each of the conditions of this approval, including implementation of management plans required under the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be reported to the Department at the same time as the compliance report is published.	Compliant The purpose of this report is to meet this condition.
17	Unless otherwise agreed to in writing by the Minister , the person taking the action must publish all management plans and strategies required under conditions 4, 5, 6, 7 and 8 on their website. Each management plan must be published on the website within 1 month of being approved by the Minister . These online publications must remain on the website for the duration of the approval or until otherwise accepted in writing by the Minister .	Compliant Evidence was provided to DoE upon publication. http://www.jandakotairport.com.au/environment/environment-plans.html

3 OFFSET MANAGEMENT PLAN

Table 2 below summarises the 2013/14 status of actions contained within the Offset Management Plan.

Table 2. Offset Plan (as of 23/4/14)			
Action		Timing	2013/14 Action Status
1	JAH undertakes to work with the Canning City Council until the end of June 2010 to achieve consensus to rehabilitate precincts 7 and 8	Until the end of June 2010	Not applicable in 13/14 FY
2	Should Canning City Council give its consent, JAH will undertake the rehabilitation in accordance with the Rehabilitation Plan	On consent of Canning City Council	Not applicable in 13/14 FY
3	JAH will not clear any land other than the 42 ha from Stage 1 until the rehabilitation plan is approved by the Minister	Until the rehabilitation plan is approved by the Minister	Not applicable in 13/14 FY
4	JAH will notify DEWHA of the outcome of negotiations with the City of Canning no later than 7 July 2010	No later than 7 July 2010	Not applicable in 13/14 FY
5	If consent cannot be obtained from the Canning City Council before the end of June 2010, JAH will pay \$9.2 million to DEC. The transportation costs for the topsoil are to be paid for out of the \$9.2 million	After end of June 2010	Ongoing
6	This amount will be paid as outlined in Table 3.7	Refer to Offset Plan Table 3.7	Achieved. Consistent with Table 3.7, no payments were made in 2013/14 as no clearing was undertaken. Payments of \$5.75 million have been made to date.
7	Stage 1 payment will be made to DEC on the expiry of the City of Canning rehabilitation time frame (by end of June 2010) unless the City of Canning agrees to the rehabilitation proposal	By end of June 2010	Not applicable in 13/14 FY
8	JAH will notify DEWHA of the outcome of negotiations with the City of Canning no later than 7 July 2010	No later than 7 July 2010	Not applicable in 13/14 FY
9	JAH will provide DEWHA with correspondence between JAH and DEC confirming DEC's agreement to the disbursement of funds and stating the intended use of the funds		Not applicable in 13/14 FY
10	JAH will provide the funding for the purchase of at least 1600 ha of Banksia bushland as outlined in Table 3.8	Refer to Offset Plan Table 3.8	Not applicable in 13/14 FY (all required offset land purchases were finalised by March 2013).
11	JAH will provide a letter within 3 months of approval of this Offset Plan, from DEC confirming that the first stage of offset land has been finalised	Within 3 months of approval of Offset Plan	Not applicable in 13/14 FY
12	This letter will include details as follows: <ul style="list-style-type: none"> • A copy of the first page of the sale contract • Successful transfer of money from JAH to DEC 		Not applicable in 13/14 FY

Table 2. Offset Plan (as of 23/4/14)

Action		Timing	2013/14 Action Status
	<ul style="list-style-type: none"> • Verification that the offset land consists of Carnaby's Black Cockatoo habitat and the area of habitat • The location of the offset land • The size of the offset land • The proposed tenure for the offset land and any other intentions DEC has for the use of the land 		
13	JAH will provide a letter from DEC containing the same information for each stage of the offset land as outlined in Table 3.8 prior to undertaking clearing in that particular year, with the exception of Stage 1	Prior to undertaking clearing in that particular year	Not applicable in 13/14 FY
14	The land will be acquired by JAH or DEC and funded by JAH. Ownership, protection and ongoing management responsibilities will rest with DEC		Not applicable in 13/14 FY
15	JAH will facilitate DEC providing to DEWHA information on the location, attributes and ongoing management of the offset site/s		Not applicable in 13/14 FY
16	JAH will provide \$150,000 per year over five years, for research on recovery actions for Carnaby's Black-cockatoo (<i>Calyptorhynchus latirostris</i>).	Annually over five years	Achieved Year 5 (2014) payment made 31/3/14. All payments have now been made.
17	The first payment will be made within one year from approval of the proposal	By 25 March 2011	Not applicable in 13/14 FY
18	<p>This money will be provided to reputable organisations undertaking research on recovery actions. These organisations will be identified annually with the guidance of DEC and DEWHA. The money will be paid into a trust established for this purpose. The application of these funds will be detailed on an annual basis. JAH will provide a strategy for approval by the Minister within 3 months of approval of this Offset Plan, outlining the following:</p> <ul style="list-style-type: none"> • Details of the trust fund, including how it will be established and who will be able to access the funds; and • The research and recovery actions that will/may be funded. 		Not applicable Note that the DoE and DPAW reached an agreement (21/7/11) for the offset to be paid to and administered by DPAW. Therefore, JAH has no direct involvement in the management of these funds or the associated reporting other than confirmation that the offset payments have been made.
19	No construction will take place before the Minister approves the Jandakot Airport Offset Plan	Approval of Offset Plan	Not applicable in 13/14 FY
20	<p>If consent cannot be obtained from the Canning City Council for the rehabilitation of precincts 7 and 8, JAH will provide:-</p> <ul style="list-style-type: none"> - topsoil to DEC - pay to DEC prior to the staged clearing of vegetation (refer Table 3.7 of Offsets Plan). <p>The DEC offset payment will take place at</p>	Refer Table 3.7 of Offsets Plan	Achieved. Consistent with Table 3.7, no payments were made in 2013/14 as no clearing was undertaken. Payments of \$5.75 million have

Table 2. Offset Plan (as of 23/4/14)			
Action		Timing	2013/14 Action Status
	least in proportion to the clearing to be undertaken in each stage		been made to date. As there has been no clearing in 2013/14, there has also been no topsoil available for DPAW.
21	JAH will provide evidence to DEWHA of the DEC payment before clearing stages 2, 3, 4 and 5	Before clearing stages 2, 3, 4 and 5	Not applicable in 13/14 FY as there has been no clearing or associated offset payment.
22	Stage 1 payment will be made to DEC on the expiry of the City of Canning rehabilitation time frame (by end of December 2010)	By end of December 2010	Not applicable in 13/14 FY
23	Apart from Stage 1 clearing, JAH will provide evidence to DEWHA that the Offset land has been secured prior to clearing commencing each stage. Offset land will be acquired at least in proportion to the land to be cleared on each stage (refer to Offset Plan Table 3.8).	Prior to clearing commencing each stage	Not applicable in 13/14 FY (all required offset land purchases were finalised by March 2013).
24	JAH will pay \$700 000 to the Botanical Gardens and Parks Authority (BGPA) in equal annual amounts, over five years to fund crucial <i>Caladenia huegelii</i> research	Annually over five years	Achieved. Whilst payments are not 'equal annual amounts', annual payments are consistent with the BGPA research proposal 'Integrated Conservation and Translocation Research Program for <i>Caladenia huegelii</i> ' and each annual payment is above that which is required in the Offset Plan. Note that payment could not be completed before the end of the 2013 calendar year as the invoice from BGPA (dated 20/12/13) was not received by JAH until 24/12/13) – payment was made 31/1/14.
25	The first payment of \$140 000 will be made prior to clearing for Stage 1 (Refer Figure 3 in Offsets Plan)	Prior to clearing for Stage 1	Not applicable in 13/14 FY
26	Each further payment will be made annually prior to the clearing of each stage consistent with Table 3.9 of the Offset Plan.	Annually, prior to the clearing of each stage	Achieved. Annual payment for Yr 4 was made (31/1/14) even though no clearing was undertaken in 2013/14.

Table 2. Offset Plan (as of 23/4/14)

Action		Timing	2013/14 Action Status
			Note that payment could not be completed before the end of the 2013 calendar year as the invoice from BGPA (dated 20/12/13) was not received by JAH until 24/12/13). Note also funding provided to BGPA is consistent with the BGPA research proposal 'Integrated Conservation and Translocation Research Program for <i>Caladenia huegelii</i> ' and above that which is required in the Offset Plan.
27	An annual progress report, presentation of work to date and discussion of the following years objectives will be provided	Annually	Achieved. Reports are provided by BGPA to JAH and forwarded to DoE within the Annual Environment Report.
28	In addition a six month summary of research highlights will also be provided	Every 6 months	Achieved. Reports are provided by BGPA to JAH and forwarded to DoE within the Annual Environment Report.
29	A final report will be provided to DEWHA by 31 January 2016	By 31 January 2016	Not applicable in 13/14 FY
30	JAH will pay \$60,000 to BGPA for its glasshouse upgrade which will house inter alia the impacted <i>Caladenia huegelii</i> plants		Not applicable in 13/14 FY
31	Confirmation of this payment will be given to DEWHA prior to any clearing	Prior to any clearing	Not applicable in 13/14 FY

4 CONSERVATION MANAGEMENT PLAN

Table 3.1 below summarises the 2013/14 status of actions contained within the Conservation Management Plan.

Table 3.1. Conservation Management Plan				
Action		Responsibility	Timing	2013/14 Action Status
Native Vegetation Management				
CMP1	Undertake Bushland Condition Survey and update Bushland Condition mapping every 5 years.	JAH EM	End of 2016	Not applicable in 13/14 FY
CMP2	Update Bushland Condition mapping if significant unexpected detrimental changes are noted in annual weed quadrat surveys or triennial dieback assessments.	JAH EM	Within 12 months of the impact being reported.	Not applicable in 13/14 FY
CMP3	Develop a site-specific revegetation plan for areas identified as requiring revegetation utilising the Rehabilitation and Revegetation Guidelines.	JAH EM	Prior to undertaking any revegetation.	Not applicable in 13/14 FY
CMP4	Implement site-specific revegetation plan developed under CMP3.	JAH EM	As detailed in site-specific revegetation plan.	Not applicable in 13/14 FY
CMP5	Review Rehabilitation and Revegetation Guidelines.	JAH EM	End of 2018.	Not applicable in 13/14 FY
Orchid Management				
CMP6	Liaise with BGPA or other orchid expert, if <i>Drakaea elastica</i> is identified on site, to determine the most appropriate ongoing management and monitoring requirements.	JAH EM	Begin consultation with 1 month of plants being identified.	Not applicable in 13/14 FY
CMP7	Update CMP if <i>D. elastica</i> is identified on site.	JAH EM	Within 12 months of plants being identified.	Not applicable in 13/14 FY
CMP8	Undertake 2013 (year 3) <i>Caladenia huegelii</i> quadrat survey.	JAH EM	2013	Achieved
CMP9	In consultation with BGPA or other orchid expert, continue annual monitoring of <i>C. huegelii</i> quadrats following completion of the initial 3-year orchid quadrat survey.	JAH EM	Annually from Spring 2014 until Action CMP15 has been achieved.	Not applicable in 13/14 FY
CMP10	Complete <i>C. huegelii</i>	JAH EM	End of 2013.	Achieved

Table 3.1. Conservation Management Plan				
Action		Responsibility	Timing	2013/14 Action Status
	inventory and update the JAH <i>C. huegelii</i> database (including GPS coordinates).			
CMP11	Label each identified/located <i>C. huegelii</i> plant and maintain a photographic record.	JAH EM	End of 2013.	Achieved
CMP12	Update <i>C. huegelii</i> mapping.	JAH EM	June 2014.	Achieved
CMP13	Identify (i.e. tag) and record location details on database of <i>C. huegelii</i> plants identified after the completion of actions CMP10 and 11.	JAH EM	Spring, annually from 2014.	Not applicable in 13/14 FY
CMP14	Include BGPA Biannual Reports in the Jandakot Airport AER.	JAH EM	28 October annually until BGPA project completion.	Achieved
CMP15	Review Section 5 of CMP to include updated thresholds and management requirements identified as relevant to Jandakot Airport as a result of the BGPA Integrated Research Program final report.	JAH EM	Within 6 months of receiving the final report (or other formal advice) from BGPA.	Not applicable in 13/14 FY
CMP16	Liaise with DoE if East Link Road Alignment differs from that detailed in Master Plan 2009.	JAH EM	If applicable, prior to road construction works commencing.	Achieved – note alignment through Precinct 1B amended and endorsed in amended Annexure A of EPBC 2009/4796 Conditions of Approval.
CMP17	Engage BGPA to salvage any <i>C. huegelii</i> plants impacted by a change in alignment to the East Link Road.	JAH EM	If applicable, prior to road construction works commencing.	Not applicable in 13/14 FY
Fauna Management – Carnaby's Black-Cockatoo				
CMP18	Participate in the Annual Great Cocky Count survey.	JAH EM	Annually	Achieved on 6 th April 2014
Fauna Management – Quenda				
CMP19	Undertake follow-up quenda survey within the Conservation Precincts.	JAH EM	2014	Not applicable in 13/14 FY
CMP20	Determine updated thresholds for triggering management intervention and ongoing monitoring requirements, based on	JAH EM	2015	Not applicable in 13/14 FY

Table 3.1. Conservation Management Plan				
Action		Responsibility	Timing	2013/14 Action Status
	the findings of the 2011 and 2014 quenda surveys, in consultation with fauna expert.			
CMP21	Capture and relocate quenda from large bushland areas prior to undertaking approved clearing activities.	JAH EM	Prior to clearing.	Not applicable in 13/14 FY
Fauna Management – Western Brush Wallaby				
CMP22	Develop and implement a wallaby exclusion fencing program.	JAH EM	In conjunction with works for the 4 th Runway – timing dependent on DIRD MDP/Works approval processes.	Whilst Stage 3 clearing is yet to occur, a temporary macropod exclusion fence has been installed to prevent kangaroos and wallabies accessing aircraft movement areas. Works began in June 2014 and were completed in July. Fencing will be further reviewed and amended during the next stage of clearing.
CMP23	Undertake a wallaby survey in Conservation Precincts.	JAH EM	Within 12 months of the completion of the Airside Wallaby exclusion fencing program and Precinct 1A fencing.	Not applicable in 13/14 FY
CMP24	Review and report on trends associated with aircraft safety wildlife incidents within AER.	JAH EM	Annually	Achieved
CMP25	Obtain Dangerous Fauna or Damage Permits/Licenses from DPAW.	JAH EM	Prior to undertaking actions requiring permits/licenses.*	Achieved
*Except in the event that it has been justified and documented that failure to take immediate action has a high probability of resulting in a catastrophic event that impacts air safety/human lives.				
Fauna Road Crossing and Fencing				
CMP26	Include fauna linkages and fencing within the design of the East Link Road consistent with the Wildlife Fencing and Underpass Strategy.	JAH EM	Prior to construction commencing.	Not applicable in 13/14 FY
CMP27	Liaise with City of Melville	JAH EM	Within 12	Not applicable in

Table 3.1. Conservation Management Plan				
Action		Responsibility	Timing	2013/14 Action Status
	to determine if any measures are required to aid wildlife connectivity between Ken Hurst Park and Precincts 1A and 1B.		months of East Link Road alignment being finalised.	13/14 FY
Future Identification of Flora and Fauna Species				
CMP28	Review the EPBC Act species lists to determine whether species known to occur at Jandakot Airport have had a revision of their conservation status.	JAH EM	June 2014, then Biennially.	Achieved
Stakeholder Consultation				
CMP29	Report on Stakeholder Consultation with JAH AER.	JAH EM	28 October Annually.	Achieved
Reporting Requirements				
CMP30	Report against actions of the CMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.	JAH EM	28 October Annually.	Achieved
Review and Amendment of CMP				
CMP31	Undertake a full comprehensive review and amendment of CMP.	JAH EM	Every 5 years (2018).	Not applicable in 13/14 FY
CMP32	Amend CMP to include updated significant fauna thresholds for triggering management intervention (for Cockatoos, quenda and Western Brush Wallaby) if the findings of ongoing research/surveys identify relevant species-specific thresholds that can be applied at Jandakot Airport.	JAH EM	Within 12 months of relevant, applicable species-specific thresholds being identified.	Not applicable in 13/14 FY

4.2 Weed Management Plan

Table 3.2 below summarises the 2013/14 status of actions contained within the Weed Management Plan (CMP Appendix B).

Table 3.2. Weed Management Plan Summary of Actions.				
Action		Responsibility	Timing	2013/14 Action Status
Weed Control				
WMP1	Undertake targeted weed control in line with the Weed Control Program Attachment A.	JAH EM	Annually	Achieved
WMP2	Maintain a Register documenting details of weed control undertaken.	JAH	Annually	Achieved
Monitoring				
WMP3	Undertake Weed and Bushland Condition Survey and update mapping every 5 years (refer also CMP1).	JAH EM	End of 2016	Not applicable in 13/14 FY
WMP4	Undertake Weed Quadrat Monitoring.	JAH EM	Spring Annually	Achieved
Reporting Requirements				
WMP5	Report against actions of the WMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIT and DoE.	JAH EM	28 October Annually	Achieved
Review and Amendment of WMP				
WMP6	Review and amend the Weed Control Program (Attachment A) following completion of the 2017 weed and bushland condition survey and mapping.	JAH EM	2017 or earlier if required (based on monitoring results, identification of new species, formal changes in weed risk status, opportunistic observations etc.)	Not applicable in 13/14 FY
WMP7	Update and revise the existing Environmental Weed Management Plan.	JAH EM	2018	Not applicable in 13/14 FY

4.4 Dieback Management Plan

Table 3.3 below summarises the 2013/14 status of actions contained within the Dieback Management Plan (CMP Appendix C).

Table 3.3. Dieback Management Plan Summary of Actions.				
Action		Responsibility	Timing	2013/14 Action Status
Dieback Treatment				
DMP1	Undertake phosphite (or other appropriate) treatment of dieback infested areas utilising methods recommended by dieback experts (refer to DMP14).	JAH EM	2015 and then Triennially.	Not applicable in 13/14 FY
Dieback Management – Prevention and Containment				
Access				
DMP2	Inspect security fencing daily and repair immediately if necessary.	JAH ASOs	Daily	Achieved
DMP3	Investigate the feasibility of hardening existing access tracks to act as a barrier across the relevant dieback category boundaries, where the dieback front is advancing significantly and additional control actions are required (as determined via triennial assessments).	JAH EM in consultation with JAH Operations Manager and JAH Facilities Manager.	Feasibility investigation to be completed within 6 months of the triennial assessment that initially identified the issue.	Not applicable in 13/14 FY
DMP4	Plan and implement works recommended within the feasibility investigation (DMP3).	JAH EM in consultation with JAH Operations Manager and JAH Facilities Manager.	Timing as recommended within feasibility investigation.	Not applicable in 13/14 FY
DMP5	Install (or if appropriate, relocate) dieback awareness/warning signs at all entry/exit tracks to infested areas and along adjacent tracks when a new dieback infestation is detected or an existing dieback infestation boundary has increased beyond the existing signage.	JAH EM.	Within 3 months of a new infestation being detected or an existing dieback front assessed as having increased beyond the existing signage.	Not applicable in 13/14 FY
DMP6	Inspect dieback signage and replaced/update if required.	JAH EM.	Annually (July each year).	Achieved
Construction and Earthmoving				
DMP7	Prepare a JAH-approved CEMP or project-specific DMP for all construction and earthmoving activities. CEMPs and project-specific DMPs will be consistent with the JAH Contractor Dieback Hygiene Policy and Guidelines (Attachment 1).	JAH EM in liaison with contractors.	Prior to works commencing.	Achieved. All CEMPs address Dieback Management.

Table 3.3. Dieback Management Plan Summary of Actions.				
Action		Responsibility	Timing	2013/14 Action Status
DMP8	Implement the JAH-approved CEMP or project-specific DMP for all construction and earthmoving activities prepared under DMP7.	Construction and earthmoving contractors	During construction and earthmoving works.	Achieved
<i>Drainage</i>				
DMP9	Design new developments/drainage works to avoid stormwater discharge from dieback infested or uninterpretable areas into uninfested areas.	JAH EM in consultation with contractors and JAH staff.	Where relevant, to be included in CEMP prior to works commencing.	Not applicable in 13/14 FY
<i>Landscaping and Revegetation</i>				
DMP10	Revegetation shall be consistent with CMP Appendix D Bushland Rehabilitation and Revegetation Guidelines.	JAH EM	At all times	Not applicable in 13/14 FY – no revegetation works have occurred within Conservation Precincts.
DMP11	Landscaping in developed areas shall be consistent with the Jandakot Airport Landscape Design Guidelines.	JAH EM	At all times	Achieved
<i>Research and Industry Consultation</i>				
DMP12	Assess research proposals requesting access to Jandakot Airport dieback infestations in regards to feasibility, safety, relevance, impact on JAH resources, etc.	JAH EM	Timing of assessment to be agreed upon between JAH and relevant research institution requesting the access.	Not applicable in 13/14 FY
DMP13	Facilitate access by researchers to Jandakot Airport dieback infestations (subject to assessment and approval as described in DMP12).	JAH EM	Following receipt of request from a research institution or government agency.	Not applicable in 13/14 FY
DMP14	Consult with dieback organisations and/or professionals to ensure that the most appropriate prevention and treatment methods are being applied at Jandakot Airport.	JAH EM	Prior to undertaking phosphite (or other appropriate) treatment and during triennial review of the DMP.	Not applicable in 13/14 FY
<i>Monitoring and Contingency Requirements</i>				
DMP15	Undertake dieback reassessment.	JAH EM.	2014 then Triennially.	Not applicable in 13/14 FY
DMP16	Enter suspected new infestations or suspected rapid spread of existing infestations observed in	JAH EM	Within 7 days of a suspected new infestation or rapid spread of	Not applicable in 13/14 FY

Table 3.3. Dieback Management Plan Summary of Actions.				
Action		Responsibility	Timing	2013/14 Action Status
	between triennial dieback assessments into the JAH Safety Management System database as an Environment Incident.		an existing infestation being reported.	
DMP17	Implement actions identified from the Environment Incident process commenced under DMP16	JAH EM	In accordance with timing identified under Environment Incident investigation process.	Not applicable in 13/14 FY
Communication				
DMP18	Publish the amended DMP on the JAH website.	JAH EM	Within 4 weeks of DMP review completion (or, if required, within 4 weeks of endorsement by relevant government regulator).	Not applicable in 13/14 FY
DMP19	Update the JAH CEMP and tenant OEMP templates with relevant dieback management information (only required if information within current CEMP and OEMP templates is not consistent with the current DMP).	JAH EM	Within 3 months of DMP review completion (or, if required, within 4 weeks of endorsement by relevant government regulator).	Not applicable in 13/14 FY
DMP20	Ensure all CEMPs and OEMPs submitted to JAH for review and endorsement adequately addresses dieback management, relevant to the activities proposed to be undertaken.	JAH EM	Prior to endorsing CEMP or OEMP.	Achieved
DMP21	Include relevant dieback management information within inductions for contractors working across dieback boundaries (e.g. weed spraying contractors).	JAH EM	Ongoing – Inductions to be completed before works commence.	Achieved
Reporting Requirements				
DMP22	Report against actions of the DMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.	JAH EM	28 October Annually.	Achieved
Review and Amendment of DMP				
DMP23	Review and update (if required) DMP following triennial dieback survey.	JAH EM	June 2015, then Triennially.	Not applicable in 13/14 FY

4.5 Feral Animal Management Plan

Table 3.4 below summarises the 2013/14 status of actions contained within the Dieback Management Plan (CMP Appendix F).

Table 3.4. Feral Animal Management Plan Summary of Actions.				
Action		Responsibility	Timing	2013/14 Action Status
Overabundant Native Species				
FAMP1	Apply for DPAW Annual Licence to Take Dangerous Fauna.	JAH EM in consultation with the OM and SASO.	Annually (or sooner if quota on licence is reached prior to expiry date).	Achieved - various licences held.
FAMP2	Complete 'Licence Return' for Licence to Take Dangerous Fauna and submit to DPAW.	JAH EM in consultation with the OM and SASO.	Annually when applying for new licence (or with licence application if quota on licence is reached prior to expiry date).	Achieved – required upon expiry of licence or when a new licence is requested.
FAMP3	Inspect/maintain Shoo Roo Units and undertake repairs if required.	JAH OM/SASO.	Monthly.	Achieved
FAMP4	Utilise Bird Frite, hazing and other appropriate methods to deter bird and macropod activity.	JAH OM supported by ASOs.	Immediately in response to bird/macropod sighting in (or in vicinity of) air movement areas.	Achieved
Fox and Rabbit Baiting				
FAMP5	Apply for 1080 permit renewal.	JAH EM.	Within 6 months of the expiry date of current permit before the next biannual baiting occurs.	Permit amended November 2013 to allow for changes in baiting schedule. Permit expires July 2015.
FAMP6	Notify tenants and neighbouring landholders.	JAH EM	At least 3 days prior to baiting event.	Achieved
FAMP7	Install warning signs in accordance with permit (not required if old signs are still intact).	JAH EM	At least 3 days prior to baiting event.	Not applicable in 13/14 FY – existing signs intact.
FAMP8	Undertake 1080 fox and/or rabbit baiting.	JAH EM and 1080-trained ASOs.	Biannually (Spring and Autumn).	Achieved
FAMP9	Report to JAH EM the number/date/location of any carcasses found.	JAH ASOs.	In the 2 weeks following a baiting event.	Not applicable in 13/14 FY – no carcasses found.
Cat Trapping				
FAMP10	Undertake cat trapping in response to reported cat sightings and report trapping outcomes.	JAH EM in consultation with the OM and SASO.	Traps to be deployed within 5 days of a triggering event (i.e. repeated	Not applicable in 13/14 FY – no trapping required.

Table 3.4. Feral Animal Management Plan Summary of Actions.				
Action		Responsibility	Timing	2013/14 Action Status
			sightings or evidence of 'activity') for a period of 7 days.	
Monitoring and Reporting Requirements				
FAMP11	Report in SMS all incidents/near misses (including 'action taken') associated with feral and overabundant native species*.	JAH ASOs and JAH EM.	Within 48 hours of incident occurring.	Achieved
FAMP12	Report all use of firearms (Bird Frite and culling) on the Firearms Register and in the SMS.	JAH ASOs	Within 48 hours of using firearm.	Achieved
FAMP13	Enter 'animal hazard' and feral animal incident data from SMS onto Site Environment Register and analyse for reporting within the AER.	JAH EM	Annually prior to 28 October.	Achieved
FAMP14	Report against actions of the FAMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.	JAH EM	28 October Annually.	Achieved
Review and Amendment of FAMP				
FAMP15	Update and revise the existing Feral Animal Management Plan.	JAH EM	2018	Not applicable in 13/14 FY

* It is recognised that rabbit sightings are a common occurrence in areas of Jandakot Airport and appropriate management action is taken. Rabbit sightings are excluded from the SMS (unless associated with a specific safety incident or extenuating circumstances) in order to prevent the data being skewed in relation to the higher risk incidents.

4.6 Bushfire Management Plan

Table 3.5 below summarises the 2013/14 status of actions contained within the Bushfire Management Plan (CMP Appendix D).

Prior to approval of the amended CMP in April 2014, the Bushfire Management Plan was not formally a component of the DoE approved CMP.

Table 3.5. Bushfire Management Plan –Actions.				
Action		Responsibility	Timing	2013/14 Action Status
Preventative Actions				
Controlling Access to Bushland Areas				
BFMP1	Inspect security fencing and perimeter signage daily and repair/replace immediately if necessary (conducted as part of daily boundary inspections).	JAH ASOs	Daily	Achieved
Fire Danger Ratings and Total Fire Bans				
BFMP2	Total Fire Bans will be adhered to unless an exemption permit is obtained.	All Staff and Tenants	During Total Fire Bans.	Achieved
Stakeholder Consultation and Education				
BFMP3	Publish the BFMP on the JAH website and make available to JAH staff on internal electronic database.	JAH EM	Achieved. Version on website be replaced with updated BFMP within 4 weeks of BFMP review completion (or, if required, within 4 weeks of endorsement by relevant government regulator).	Achieved
BFMP4	Forward a copy of the BFMP to DFES following any amendments.	JAH EM	Within 4 weeks of BFMP review completion (or, if required, within 4 weeks of endorsement by relevant government regulator).	Achieved
Weed Management Program				
BFMP5	Control weeds that may contribute to increased fire risk by implementing the Jandakot Airport Weed Management Plan. Refer CMP Appendix B Weed Management Plan.	Refer CMP Appendix B Weed Management Plan	Refer CMP Appendix B Weed Management Plan.	Achieved
Separation of Sources of Fire Risk				
BFMP6	Ensure the interface between the building line and bushland is a low vegetation area.	JAH OM (supported by JAH EM) for Airside Areas.	Annually by start of fire season (31 October).	Achieved

Table 3.5. Bushfire Management Plan –Actions.				
Action		Responsibility	Timing	2013/14 Action Status
		JAH FM (supported by JAH EM) for Landside Areas.		
BFMP7	Inspect fire breaks and fire access tracks and undertake any required maintenance.	JAH OM (supported by JAH EM) for Airside Areas. JAH FM (supported by JAH EM) for Landside Areas.	Annually by start of fire season (31 October).	Achieved
Preparedness Actions				
Firebreaks and Tracks				
	Refer BFMP1, & 7			
Gates				
BFMP8	Ensure all gates are master keyed and all necessary personnel have keys.	JAH EM supported by JAH FM and JAH OM	To be confirmed during annual DFES familiarisation tours.	Achieved
Water Supply				
BFMP9	Undertake Annual Fire Hydrant Inspection.	JAH FM	Annually by start of fire season (31 October).	Achieved
JAH Staff Training				
	Refer BFMP3			
BFMP10	Issues and actions relevant to the BFMP are addressed as required via the JAH Safety Management System meetings, which are held monthly.	JAH EM and JAH AOM	Monthly unless meetings are postponed or cancelled due to operational priorities.	Achieved
BFMP11	All JAH ground staff potentially involved in bushfire response or support to be issued with appropriate uniforms.	JAH OM and JAH FM	Uniforms provided upon commencement of employment and replaced as required.	Achieved
Equipment				
BFMP12	Equipment and vehicles that may potentially be utilised in bushfire response are maintained in good working order in line with JAH maintenance procedures.	JAH OM supported by JAH SASO.	Ongoing	Achieved
Maps				
BFMP13	Review and update (if required) existing maps (Bushfire Response Plan, Fire Hydrants and priority areas). Provide updated maps to DFES.	JAH EM supported by JAH OM & JAH FM.	Annually by start of fire season (31 October).	Not applicable in 13/14 FY. No updates to maps required.

Table 3.5. Bushfire Management Plan –Actions.				
Action		Responsibility	Timing	2013/14 Action Status
Stakeholder Communication				
BFMP14	Undertake familiarisation tours.	DFES response stations	Annually	Achieved (independent DFES action)
BFMP15	Liaise with DFES to provide relevant updated information relating to any significant changes that have occurred in the previous 12 months.	JAH EM and DFES	Prior to undertaking annual familiarisation tours if major changes have occurred at the airport since the previous annual tour.	Not applicable in 13/14 FY
BFMP16	Raise any significant updates to the BFMP at the AEP Annual meeting for major stakeholders	JAH EM supported by JAH OM.	Annually (if significant updates to BFMP have occurred).	AEP meetings held 6/9/2013, 11/3/14. No significant updates.
Response Actions *Note – only JAH actions are listed below. Whilst guidelines and recommendations are provided within this BFMP, JAH is not responsible for the DFES response actions				
BFMP17	Support DFES response to any bushfire at Jandakot Airport.	All JAH Staff	When a bushfire occurs.	Not applicable in 13/14 FY
BFMP18	Facilitate fauna rescue of animals injured by the fire.	JAH EM	Immediately after area is deemed "Safe".	Not applicable in 13/14 FY
Recovery Strategies				
Debriefing				
BFMP19	Hold a meeting with all parties involved in the fire fighting effort.	JAH OM/JAH EM & Incident Controller	ASAP after fire.	Not applicable in 13/14 FY
BFMP20	Complete any recommended changes to the preparedness and response strategies as a result of the above.	JAH EM	Timing to be determined at the debriefing.	Not applicable in 13/14 FY
Investigation				
BFMP21	Conduct post fire investigations in consultation with DFES.	JAH EM/JAH OM	ASAP after fire	Not applicable in 13/14 FY
Recording				
BFMP22	Prepare and store electronic records of the fire. Records to contain details outlined in Section 5.3.	JAH EM	Within 4 weeks of any fire occurring.	Not applicable in 13/14 FY
BFMP23	Create map using post-fire aerial photography and take ground-based photos of the area.	JAH EM	Ground-based photos to be taken within 7 days of the area being declared safe. Mapping to be completed within 4 weeks of Nearmap post-fire photos being made	Not applicable in 13/14 FY

Table 3.5. Bushfire Management Plan –Actions.				
Action		Responsibility	Timing	2013/14 Action Status
			available.	
Safety				
BFMP24	Undertake an inspection of the areas impacted by fire close areas deemed 'unsafe' pending further assessment and/or remediation.	JAH OM, JAH IM, or JA HEM – depending on areas impacted.	ASAP after DFES declare Stand Down. Exact timing dependent on the areas impacts and associated risks.	Not applicable in 13/14 FY
Bushland Rehabilitation and Revegetation				
BFMP25	Assess the need for fauna assistance (e.g. temporary supplementary feeding) and determine ongoing monitoring requirements.	JAH EM	As soon as possible after a fire. Exact timing of fauna rehabilitation tasks will be dependent on location of fire and species impacted.	Not applicable in 13/14 FY
BFMP26	Assess the fire-impacted area for rehabilitation and revegetation requirements.	JAH EM	As soon as possible after a fire.	Not applicable in 13/14 FY
BFMP27	If required, develop and implement a post-fire rehabilitation and revegetation plan.	JAH EM	Following the completion of the post-fire rehabilitation and revegetation assessment (BFMP31).	Not applicable in 13/14 FY
Reporting and Review				
Reporting				
BFMP28	Report against relevant actions of the BFMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.	JAH EM	By 28 October Annually.	Achieved
Review				
BFMP29	Review and update BFMP.	JAH EM	2018.	Not applicable in 13/14 FY
BFMP30	Review and amend BFMP (including details of areas to be cleared) if proposed clearing for firebreaks/tracks exceeds the 167 hectare clearing limit under EPBC 2009/4796 within precincts 1B,3, 4 and 5, or if any clearing of native vegetation is proposed within other precincts, and submit to DoE for approval.	JAH EM	Prior to clearing for firebreaks and fire tracks.	Not applicable in 13/14 FY

4.7 Fencing and Underpass Strategy

Table 3.6 below summarises the 2013/14 status of actions contained within the Wildlife Fencing and Underpass Strategy (CMP Appendix H).

Table 3.6. Wildlife Fencing and Underpass Strategy Summary of Actions.				
Action		Responsibility	Timing	2013/14 Action Status
Planning and Design				
FUS1	Consider and include fencing and underpass requirements to assist fauna movements within planning and design phases of the East Link Road.	JAH MD and JAH EM	Following confirmation of final agreed alignment and prior to construction commencing.	Not applicable in 13/14 FY
Fencing				
FUS2	Replace fencing along Harvard Road (approx. 300m) to current JAH exclusion/Conservation Precinct specifications.	JAH EM	Dependent on alignment of East Link Rd. If East Link Rd alignment remains the same, will be undertaken in conjunction with the East Link Road construction works. If East Link Rd alignment is changed, will be undertaken within 12 months of the alternative alignment being confirmed.	Not applicable in 13/14 FY
FUS3	Remove unnecessary fencing between Precincts 1A and 1B to facilitate wildlife movements between the two areas.	JAH EM	Within 12 months of the completion of Eastern Link Road and associated fences and underpasses and Harvard Road fencing.	Not applicable in 13/14 FY
FUS4	Undertake fencing of Precincts 2 (south) and 6 to current JAH exclusion/Conservation Precinct specifications to exclude macropods from aircraft movement areas	JAH EM	Following the completion of Stage 3 (4 th Runway) and Stage 5 (Runway extensions) clearing.	Whilst Stage 3 clearing is yet to occur, a temporary macropod exclusion fence has been installed to prevent macropods accessing aircraft movement areas.

Table 3.6. Wildlife Fencing and Underpass Strategy Summary of Actions.

Action		Responsibility	Timing	2013/14 Action Status
				Works began in June 2014 and were completed in July.
Underpasses				
FUS5	Include fox baiting in vicinity of fauna underpasses that link Jandakot Airport to neighbouring property in JAH 1080 baiting program.	JAH EM	Within 6 months of completion of underpasses.	Not applicable in 13/14 FY
FUS6	Implement fox baiting in vicinity of fauna underpasses that link Jandakot Airport to neighbouring property in accordance with JAH 1080 program.	JAH EM	In accordance with JAH 1080 program.	Not applicable in 13/14 FY
FUS7	Investigate fauna connectivity options between Precinct 2 (south) and neighbouring Jandakot Regional Park.	JAH EM	Within 12 month of the completion of Precincts 6 and 2 (South) fencing from aircraft movement areas.	Not applicable in 13/14 FY
Signage				
FUS8	Install wildlife warning signs in areas where significant fauna (i.e. quenda and wallabies) can access road areas and are at risk of being killed.	JAH EM	In response to 2 or more reports in the SMS of road deaths or near misses in a specific area over a 6-month period. Signage to be installed within 2 months of the requirement being identified.	Not applicable in 13/14 FY
Monitoring and Maintenance				
FUS9	Inspect security fencing daily and repair immediately if necessary.	JAH ASOs	Daily	Achieved
FUS10	Report in SMS all incidents associated with road deaths of significant fauna species (i.e. quenda and wallabies) and incidents associated with aircraft safety.	JAH Grounds Landside Grounds Staff, JAH ASOs and JAH EM.	Within 48 hours of incident occurring.	Achieved
Reporting Requirements				
FUS11	Report against actions of the FUS within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.	JAH EM	28 October Annually.	Achieved
Review and Amendment of FUS				
FUS12	Update and revise the existing FUS.	JAH EM	2018	Not applicable in 13/14 FY

4.8 Heritage Management Plan

Table 3.7 below summarises the 2013/14 status of actions contained within the Heritage Management Plan (CMP Appendix I).

Table 3.7. Heritage Management Plan Summary of Actions.				
Action		Responsibility	Timing	2013/14 Action Status
Monitoring and Management				
HMP1	Ensure that CEMP for projects involving clearing and earthworks include requirement to stop work and advise JAH EM should an item of suspected heritage significance be discovered.	JAH EM	JAH approved CEMP to be developed prior to works commencing.	Requirement is included in JAH CEMP Template for lot level developments. JAH ensure that this requirement is included in lot level CEMPs submitted for JAH endorsement prior to works commencing. Requirement is an existing component of approved CEMP for EPBC 2009/4796.
HMP2	Secure the site and liaise with relevant experts should a suspected heritage artefact be uncovered during clearing or earthworks.	JAH EM	Immediately following the identification of a suspected artefact.	Not applicable in 13/14 FY
Reporting Requirements				
HMP3	Report against actions of the HMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.	JAH EM	28 October Annually.	Achieved
Review and Amendment of HMP				
HMP4	Update and revise the existing Heritage Management Plan.	JAH EM	2018	Not applicable in 13/14 FY

5 GROUNDWATER MANAGEMENT PLAN

Table 4 below summarises the 2013/14 status of actions contained within the Groundwater Management Plan.

The Groundwater Management Plan was reviewed in the latter half of 2013/14 and submitted to DoE for approval in August 2014.

Subsequently, following recent approval of EPBC 2013/7032 to clear and develop Precinct 6 and 6A (which like Precinct 5 is partially located above the P1 Underground Water Sources Protection Area (UWPCA)), JAH will:

- Review and amend the Jandakot Airport Local Water Management Strategy; and
- Amend the Groundwater Management Plan accordingly to encompass both Precinct 5 and Precinct 6/6A, and submit to DoE for approval

JAH anticipates this will be achieved in 2014/15.

Table 4. Groundwater Management Plan			
Action		Timing	2013/14 Action Status
1	Undertake appropriate risk assessments for activities that may disturb soils and/or water resources (Appendix A) and/or where infiltration of water is proposed and/or required		Achieved – (previously completed)
2	Activities are to be conducted in accordance with the schedules detailed in earthworks and engineering drawings and contracts and the treatment and disposal of contaminated materials and/or acid sulfate soils in terms of the necessary statutory/regulatory approvals, risk assessments and management plans with appropriate action plans and contingency measures		Achieved
3	Sufficient resources shall be available at all times to manage, handle and treat surface and ground water resources	At all times	Achieved
4	Storm water and/or dewatering effluent are to be discharged into sedimentation basins or infiltration trenches/ galleries/swales from where water will be disposed of into infiltration basins, trenches and/or galleries		Achieved. Infiltration basins in Precinct 5 operational. No dewatering undertaken in 2013/14.
5	Storm water and dewatering effluent control measures shall be designed and constructed with sufficient storage and infiltration capacities with appropriate measures to store, and treat if required, calculated volumes. Allowance shall be made for freeboard where required		Achieved – design is a component of the ABC Building Permit process.
6	Materials used to construct infiltration devices shall comprise clean sand and shall be free from contaminated and acid sulfate materials and/or debris. Infiltration devices shall be lined with materials appropriate for treatment i.e. amended soils for storm water infiltration and limestone for dewatering effluent		Achieved.
7	Monitoring shall be undertaken at appropriate frequencies under strict QA/QC procedures	At appropriate frequencies	Achieved. Note no dewatering

Table 4. Groundwater Management Plan

Table 4. Groundwater Management Plan			
Action		Timing	2013/14 Action Status
	with appropriate Data Validation (refer Appendix B) to ascertain whether infiltration and/or dewatering activities are having a detrimental impact on the ground water regime		undertaken in 2013/14.
8	Water (other than rain) and dewatering effluent to be disposed of into the infiltration devices shall be free of scum and/or oil and treated to maintain a pH greater than 6.5 and preferably at 7.0. Dewatering effluent shall be aerated by spraying		Not applicable in 13/14 FY - no dewatering undertaken.
9	The treatment train shall be amended by providing additional treatment devices (used in a series configuration should water quality criteria not be met) and/or treatment methodologies, if and when required, by additional treatment using sedimentation tanks, in-line injection or addition of pH adjustment and settling/flocculation agents		Not applicable in 13/14 FY - no dewatering undertaken.
10	In the event that the level of water within the infiltration device exceeds 90% of its capacity, the activity will cease until the water has subsided and/or until additional storage/treatment capacities have been provided	On level of water within infiltration device exceeding 90% of its capacity Until the water has subsided and/or until additional storage/treatment capacities have been provided	Not applicable in 13/14 FY - no dewatering undertaken.
11	Spill avoidance, management and rehabilitation measures and procedures are to be implemented where and if required		Addressed within CEMPs (including lot level constructions). No spills occurred within Precinct 5.
Monitoring			
12	Activity: Regular surface and ground water monitoring Earthworks, sediment and erosion control and on-site pollution control Storm water infiltration Dewatering and disposal of ground water by infiltration	Dewatering effluent treatment and infiltration devices during activity: daily (pH and flow) and weekly (laboratory: pH, acidity and alkalinity) Monitoring bores during activity: monthly and quarterly Storm water treatment and infiltration devices: after first flush (April-May), July and October Regular monitoring bores:	Achieved. Monitoring bores sampled quarterly until March 2013 when groundwater consultant confirmed no contamination issues existed and recommended ongoing biannual sampling. No dewatering in 2013/14. Stormwater basins designed to not hold water (to deter water birds & reduce aircraft wildlife hazards) and therefore surface water unlikely to be present for monitoring. As an alternative, following discussions with Dept.

Table 4. Groundwater Management Plan

Table 4. Groundwater Management Plan			
Action		Timing	2013/14 Action Status
		quarterly Frequencies are to be revised annually	of Water & DIRD, two additional monitoring bores were installed to monitor groundwater down gradient of infiltration basins. Bores installed and sampled from December 2013.
13	Parameters: Refer to Table 4 in Ground Water Management Plan		Achieved
14	Location: Treatment devices Infiltration devices Regular monitoring bores for precinct 5 and Runway12L/30R Additional bores are to be provided if required and replacement bores shall be provided where existing bores are removed and/or damaged		Achieved - monitoring locations are consistent with locations detailed within the approved GMP. Additional bores installed in 13/14 to monitor groundwater down gradient from stormwater infiltration basins.
Review			
15	Management review meetings will be held every six months to ensure that objectives are communicated and met and that there is adequate provisions and priority placed on environmental performance	Every 6 months	Achieved
16	In addition to assessment and reporting of regular monitoring data, particularly non-conformances, all monitoring information and data are to be reviewed and reported upon annually to ensure compliance with performance criteria. The review should include a detailed statistical and trend analysis and graphically presented	Annually	Achieved
Reporting			
17	Pendragon Environmental Solutions shall record and include all monitoring results in ground water monitoring reports. Tabulations and graphs are to be compiled and submitted to JAH quarterly, accompanied by brief notes, with detailed reporting, including a final summary, to be prepared and submitted annually. This Annual Report shall include an overview of the works undertaken, management measures and the results of the monitoring program	Quarterly/ Annually	Achieved, noting the Groundwater Monitoring Contract was re-tendered prior to 2013/14 monitoring commencing and was awarded to another suitably qualified consultant.
18	Interpretations will take due cognisance of the monitoring data gathered at surrounding monitoring bores of the Department of Water		Achieved
19	Reporting (and monitoring) frequencies may be amended as circumstances require and will be reviewed annually	Annually	Achieved – Following 9 quarterly monitoring events without evidence of contamination and baseline water quality

Table 4. Groundwater Management Plan

Table 4. Groundwater Management Plan			
Action		Timing	2013/14 Action Status
			established, consultants recommended (after March 14 monitoring) that monitoring be undertaken biannually.
20	Where a potential non-conformance event has occurred, JAH, assisted by Pendragon Environmental Solutions where required, shall immediately assess the nature of the event, initiate and implement measures to prevent recurrence and record any outcomes. Where a non-conformance event with potential environmental impacts and/or harm has occurred, all relevant parties shall be notified immediately of the incident by telephone to be followed by email within 24 hours	Immediately (assessment and phone notification) Within 24 hours (email notification)	Achieved. Whilst there has been some exceedances of the assessment criteria (Airports (Environmental Protection) Regulations 1997), the exceedances observed were expected (i.e. consistent with long term trends and the surrounding regional water quality). Therefore, the exceedances observed did not constitute or suggest contamination.
21	Annual Reports are to be distributed, no later than 31 August each year, to the WA Department of Water and Water Corporation, the Airports Environmental Officer (AEO), the Department of Infrastructure and Transport (DIT) and the Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC)	Annually, no later than 31 August	Achieved. 2012/13 Annual report distributed by 31 Aug 13. Except for those provided direct to Water Corp and DOW, Annual Monitoring Reports are submitted as a component of the AER as of 2013/14 following agreement with DoE. DoE have also agreed that target date be changed to 28 October (Ref DoE letter dated 21/9/14).
Incident or Failure			
22	Examination of activities and/or regular monitoring data for evidence of deteriorating water quality: i.e. continuous declining trend in any monitoring parameters, low pH and/or suspended solids, turbidity and/or algae in infiltration devices		Achieved.
Contingency Plans			
23	To be implemented where an identified action or situation has the potential to deteriorate water quality		Not applicable in 13/14 FY
24	If environmental impacts occur due to excavation of acid sulfate soils and dewatering, work will be curtailed until suitable actions have been identified and taken.	Until suitable actions have been identified and taken y	Not applicable in 13/14 FY – no ASS encountered or dewatering undertaken.
25	During construction, the contractor shall	During	Not applicable in 13/14

Table 4. Groundwater Management Plan

Action		Timing	2013/14 Action Status
	ensure sufficient and spare dewatering equipment and their maintenance and store on-site at all times sufficient quantities of hydrated lime and gypsum for treatment of low pH turbid waters to ensure that potential non-conformances and hazardous situations can be responded to immediately should the need arise	construction, at all times	FY – no ASS encountered or dewatering undertaken.
26	If pH less than 7.0 and/or if suspended solids more than 50mg/L curtail dewatering and discharge, provide additional treatment facilities and/or adjust treatment rates. In addition, should elevated soluble and/or colloidal Iron/Aluminium concentrations be observed, filtration systems are to be added to the treatment train. Additional monitoring is to be undertaken at hourly intervals until parameters meet relevant criteria	Hourly	Not applicable in 13/14 FY – no ASS encountered or dewatering undertaken.
27	Should incidents and/or non-conformances occur investigations are to be initiated to ascertain their causes, if not readily evident, in order to implement suitable control measures to facilitate rehabilitation and to ensure that recurrences are unlikely		Not applicable in 13/14 FY – no ASS encountered or dewatering undertaken.
28	Additional water treatment shall be undertaken in accordance with the Implementation Strategies stated above. Additional treatment devices and/or treatment, where and when necessary, shall be provided to prevent recurrence	When necessary	Not applicable in 13/14 FY – no ASS encountered or dewatering undertaken.
29	Corrective actions will be agreed upon, dependent upon the severity of non-conformance and parameters involved between all relevant parties		Not applicable in 13/14 FY – no ASS encountered or dewatering undertaken.
30	Inspect and clean, if necessary, treatment and infiltration devices		Not applicable in 13/14 FY – no ASS encountered or dewatering undertaken.
31	In the event that the level of water within any holding structure exceeds 90% of its capacity related activities will cease until the water has subsided and/or until additional capacities have been provided.	On level of water within infiltration device exceeding 90% of its capacity Until the water has subsided and/or until additional storage/treatment capacities have been provided	Not applicable in 13/14 FY – no ASS encountered or dewatering undertaken.

6 CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Table 5 below summarises the 2013/14 status of actions contained within the Construction Environment Management Plan. It should be noted that JAH is in the process of reviewing and amending the CEMP to address deficiencies identified in a recent audit (e.g. non applicable actions, un-auditable actions, undefined timings and responsibilities etc.). JAH has committed to having the CEMP amended and approved by DoE prior to the next stage of clearing.

No clearing occurred in 2013/14. The only works undertaken that relate to this CEMP are:

- Ongoing sand removal and site levelling in preparation for lot-level tenant constructions in areas previously cleared;
- Stage 1 East Link Road (extension of Orion Rd) in an area already cleared of vegetation.

Action		Timing	2013/14 Action Status
1	A dedicated file will be established by the Contractor to contain all documentation pertaining to environmental management of the works		Achieved (by contractor)
2	During construction, the Principal Contractor will undertake ongoing inspections of the works to identify non-compliance with the provisions of the CEMP	Ongoing	Achieved (contractor checklists submitted to JAH).
3	The Principal Contractor will complete the environmental checklists provided in Appendix D at a frequency agreed with JAH, but no less than once per month	At a frequency agreed with JAH, but no less than once per month	Achieved (contractor checklists submitted to JAH).
4	The Principal Contractor will provide monthly written reports to JAH detailing the Contractor's compliance with the CEMP	Monthly	Achieved (contractor checklists submitted to JAH constitute monthly reporting).
5	The Principal Contractor will immediately inform JAH of any non-compliances and it is the Principal Contractor's responsibility to remedy all non-compliances. JAH may impose restriction of construction activities until remedial action has been taken with regards to any environmental deficiencies	Immediately	Not applicable in 13/14 FY. No non-compliances to reported by contractor to JAH, although there were 3 incidents/complaints (dust/sand) that were reported direct to JAH by a third party that the principal contractor was unaware of until advised by JAH. JAH subsequently contacted the principal contractor for action/investigation.
6	In response to Referral EPBC 2009/4796, Jandakot Airport is required to submit a report of performance against the requirements of the CEMP by 30 June each year for a period of 5 years. During construction the annual performance report will comprise of: <ul style="list-style-type: none"> • Preconstruction checklist for the individual 	By 30 June each year for a period of 5 years	Achieved. Annual CEMP Reports are submitted as a component of the AER as of 2013/14 following agreement with DoE. DoE have also agreed

Table 5. CEMP			
Action		Timing	2013/14 Action Status
	site (to be supplied electronically); <ul style="list-style-type: none"> • Regular checklists for the individual site (to be supplied electronically); • Photo diary, using point of references for the site adjacent to native vegetation, prior to construction and during construction; • A summary report of any non-conformances or complaints. • Maps outlining the clearing undertaken 		that target date be changed to 28 October (Ref DoE letter dated 21/9/14)
7	On the completion of the project annual photos using standard point of references will be taken to monitor weed dispersal, erosion and species diversification	On completion of project, annually	Not applicable in 13/14 FY.
Noise Management			
8	Construction will occur during the hours of 7am – 5pm Monday-Saturday	Throughout works implementation	Achieved
9	Operation of the site will be undertaken to meet the requirements of the regulations and the Environment Strategy	Throughout works implementation	Achieved
10	Equipment and vehicles used during works are to be adequately maintained and serviced to ensure that noise levels associated with operation are as low as can be reasonably achieved	Throughout works implementation	Achieved (by contractor)
11	Monitoring by the Contractor will include monitoring of equipment operating noise levels and programming for appropriate time of day, and consideration of any complaints	Throughout works implementation	Achieved (by contractor). No noise related complaints received.
12	The Contractor will provide monthly comment on noise management issues, including details of any complaints from the public or regulatory authorities	Throughout works implementation Monthly	Achieved (contractor checklists submitted to JAH).
13	If monitoring identifies practices which are inconsistent with best environmental practice, the Contractor will immediately take action to remedy the situation. Non-conformance notices and corrective action notices will be prepared and actioned. Monitoring of noise levels will be considered in consultation with the AEO	Throughout works implementation Immediately	Not applicable in 13/14 FY. No noise related complaints received.
Air Quality & Dust Management			
14	For air borne dust resulting from excavation, stockpiling of soil, high wind and vehicle movements around site, the earthworks contractor is required to undertake ground watering using non-potable water for dust suppression and gravel to be placed on areas where large numbers of vehicle movements occur	Throughout works implementation	Achieved. Gravel/limestone roads established. Ongoing use of water carts on roads with water sourced from groundwater bore supply.
15	Wetting down of soils to reduce the risk of dust accumulation on native vegetation	Throughout works implementation	Achieved. Ongoing use of water carts on roads and unsealed areas with water sourced from groundwater bore supply.

Table 5. CEMP

Action		Timing	2013/14 Action Status
16	Construction traffic will be restricted to designated areas and tracks	Throughout works implementation	Achieved.
17	Dust control measures to be in place and enforced throughout the construction period and using PM 10 (particulate matter less than 10 Microns in diameter) dust monitoring where dust has been identified as excessive	Throughout works implementation	Achieved. Ongoing use of control measures including water carts, dustex application, hydromulching, wind fencing and use of rye grass for stabilisation. No excessive dust that warranted PM10 monitoring.
18	If required, PM 10 dust maintaining is to be carried out using readily available automated sampling equipment	Throughout works implementation	Not applicable in 13/14 FY.
19	If excessive exhaust fumes observed to be emitted for a period of ten seconds or more, vehicles will be requested to shutdown and undergo a maintenance check	Throughout works implementation	Not applicable in 13/14 FY (checklists).
20	Contractors to submit evidence of vehicle servicing to ensure equipment is running efficiently and fumes are minimised	Throughout works implementation	Held by contractor and made available to JAH upon request.
21	Attention will be given to dust during works. If complaints are received, works will cease and additional dust suppression will be undertaken	Throughout works implementation	Achieved
22	Monthly site report to include incidents of highly visible emissions of dust or smoke and complaints and remedial actions undertaken	Throughout works implementation Monthly	Achieved (checklists).
23	If complaints are received, Contractor must immediately alleviate problem.	Throughout works implementation Immediately	Achieved. There were 3 incidents/complaints (dust/sand) that were reported direct to JAH by a third party that the principal contractor was unaware of until advised by JAH. JAH subsequently contacted the principal contractor for action/investigation. In one instance the problem (sand on road) had been rectified before the complaint was received. The other two instances related to wind-blown sand in certain weather conditions. Contractor liaised directly with other two complainants to ensure mitigation actions had been satisfactory.

Table 5. CEMP			
Action		Timing	2013/14 Action Status
Water Quality			
24	Stockpiles of potential water pollutants i.e. oils, fuels, works materials, rubbish, suitably stored and banded to minimise potential for contaminants to enter drainage lines	Throughout works implementation	Achieved
25	No petroleum products to be stored on site, except for limited amounts of fuel for small plant usage if necessary. A maximum 400 litres being consistent with AS1940. The Storage and Handling of flammable combustible liquids	Throughout works implementation	Achieved
26	Cleaning of equipment and vehicles to be undertaken in designated wash-down area where untreated wash-water is contained and does not enter stormwater drainage system	Throughout works implementation	Achieved
27	Wash-down areas are to be provided prior to entering clean areas and major public roads to reduce the risk of spreading dieback to uninfected areas	Throughout works implementation	Achieved where required
28	Acid sulfate soil and de-watering Management Plan to be implemented for excavating 3m below ground level (Refer Appendix G)	Throughout works implementation	Not applicable in 13/14 FY
29	All earthworks will meet AS 3798 Guidelines on for Earthworks for Commercial and Residential Developments and AS 2870 Residential Slabs and Footings - Construction	Throughout works implementation	
30	A street sweeper or equivalent to be used when appropriate to remove accumulated sand from all roads	Throughout works implementation	Achieved
31	At completion of works, the works area is to be cleared of all potentially polluting materials	Throughout works implementation	Achieved
32	Employ best practice management to minimise potential for oil/diesel spills e.g. Bunding of temporary storage areas, no open top containers containing chemicals to be left in open, use of drip trays when decanting from large to small containers etc	Throughout works implementation	Achieved
33	Minor maintenance of plant and machinery is permitted on site but it is to be carried out in an area approved by the JAH Environment Manager. Major maintenance eg. oil changes, are to be carried out off airport	Throughout works implementation	Achieved – vehicles maintained off site unless emergency works are warranted to make vehicle mobile for transfer to maintenance facility.
34	Any spills to be cleaned up and disposed of immediately within 2 hours of notification, Jandakot Airport Environment Manager to be advised	Throughout works implementation	Not applicable in 13/14 FY – no spills reported.
35	Any disposal of contaminated soil or water to be carried out in accordance with DEC Contaminated Site Series und the Contaminated Sites Act 2003	Throughout works implementation	Not applicable in 13/14 FY
36	Excess materials such as fill and topsoil to be stockpiled on site for future use and provided with erosion protection, after approval of location. Stockpiles to be stabilised if not used	Throughout works implementation	Achieved

Table 5. CEMP			
Action		Timing	2013/14 Action Status
	for four weeks or more		
37	Water sources for all construction activities to be approved by JAH Environment Manager	Throughout works implementation	Achieved
38	Parking of machinery between work periods to be in designated areas only	Throughout works implementation Between work periods	Achieved
39	Encourage workers to park on paved/hardstand areas	Throughout works implementation	Achieved
40	Retain grassed/vegetation road edge strip to filter sediment	Throughout works implementation	Not applicable in 13/14 FY
41	Maintain all sediment control measures during construction and until full stabilisation	Throughout works implementation	Not applicable in 13/14 FY
42	Daily visual checks and monthly compliance checks to be conducted	Throughout works implementation Daily/Monthly	Achieved
43	Test results from monitoring bores in accordance with the Jandakot Airport Ground Water Monitoring Plan.	Throughout works implementation	Achieved
44	Test results from Acid Sulfate Soil and De Watering Management Plan if implemented	Throughout works implementation	Not applicable in 13/14 FY
45	Reporting to JAH Incidents of chemical spills	Throughout works implementation	Not applicable in 13/14 FY
46	Reporting to Monitoring bore test results	Throughout works implementation	Achieved - refer to GMP Table 4
47	Acid Sulfate test results	Throughout works implementation	Not applicable in 13/14 FY
48	Rectification of non-conformance and non-conformance and corrective action notices to be prepared and actioned within 1 day	Throughout works implementation Within one day	Not applicable in 13/14 FY
Erosion & Sediment Control			
49	Before commencement of construction activities, the following measures will be incorporated where appropriate, to ensure minimal disturbance and adverse water quality impacts <ul style="list-style-type: none"> • Sediment fences to be constructed along the downstream edges of the exposed construction area and at the base of any fill embankments 	Throughout works implementation Before commencement of construction activities	Not applicable in 13/14. Sediment control measures are not warranted on site, however Air Quality/dust measures are (see CEMP actions 14-23)
50	<ul style="list-style-type: none"> • Catch drains to be used where possible at the downstream boundary of construction activities to ensure any sediment laden runoff is contained and not permitted to flow onto downstream undisturbed areas. Diversion banks and catch drains to be constructed along contours to minimise scour along the invert 	Throughout works implementation. Before commencement of construction activities	Not applicable in 13/14
51	<ul style="list-style-type: none"> • Sediment fences and sandbags to be placed along catch drains to slow flow reduce scour and capture some coarse sediment from runoff 	Throughout works implementation Before commencement of construction activities	Not applicable in 13/14
52	<ul style="list-style-type: none"> • Sufficient materials to protect against 	Throughout works	Not applicable in 13/14

Table 5. CEMP

Action		Timing	2013/14 Action Status
	erosion to be available on site prior to construction commencing	implementation Before commencement of construction activities	
53	<ul style="list-style-type: none"> Education of site personnel in the location, inspection and maintenance of erosion and sediment control structures 	Throughout works implementation Before commencement of construction activities	Not applicable in 13/14
54	Regular inspection and maintenance to be undertaken for all sediment control works. Replacement of damaged control works should occur immediately	Throughout works implementation Before commencement of construction activities Regularly Immediately	Not applicable in 13/14
55	Daily visual checks and weekly compliance checks to be conducted. Additional compliance checks to be conducted following rain events greater than 20 mm	Throughout works implementation. Daily Following rain events greater than 20 mm	Not applicable in 13/14
56	Observations made during inspection of sediment and erosion control measures to be incorporated in Contractor's site report	Throughout works implementation	Not applicable in 13/14
57	Remedy practices that have allowed sediment generation and erosion. If non-conformance is result of poor work practices, personnel to be advised of problem and informed of acceptable work practices	Throughout works implementation	Not applicable in 13/14
Cultural Heritage			
58	Limit site works to areas as approved under the MP & ES	Throughout works implementation	Achieved
59	All civil contractors to be made aware of any items of Cultural heritage that may affect site works	Throughout works implementation	Achieved
60	All work will stop if an item or items are found	Throughout works implementation	Not applicable in 13/14 – no items found.
61	All contractors to be made aware that Stop Work instructions will be in effect should suspected items of Aboriginal heritage be unearthed	Throughout works implementation	Achieved
62	Areas designated as containing known or suspected items of heritage to be inspected as part of monthly works site inspection checklist	Throughout works implementation	Not applicable in 13/14
63	Observations to be incorporated in site report	Throughout works implementation	Not applicable in 13/14
64	If practices are inconsistent with environmental best practice, action must be undertaken to remedy the situation immediately. Non-conformance and corrective action notices to be prepared and Stop Work instructions actioned	Throughout works implementation Immediately	Not applicable in 13/14

Table 5. CEMP			
Action		Timing	2013/14 Action Status
Waste Management			
65	Designate specific areas on site for temporary management of various waste streams i.e. general domestic waste, works waste and contaminated waste	Throughout works implementation	Achieved
66	Contractors will be required to separate excess works materials into wastes that can be recycled and the remaining waste disposed of at a legally operating landfill	Throughout works implementation	Achieved
67	All domestic and industrial waste to be secured in proper industrial bins and covered to ensure rubbish is secure from wind and rain, and to ensure birds and vermin are not attracted to putrescible waste in uncovered containers	Throughout works implementation	Achieved
68	Where practicable, use contractors who have a working waste minimisation policy in place and assess quantities of materials required carefully to minimise surpluses and scrap	Throughout works implementation	Not applicable in 13/14 (not practicable)
69	Any disposal of contaminated soil or water to be carried off Airport in accordance with the Contaminated Sites Act 2003	Throughout works implementation	Not applicable in 13/14 (no contaminated soil or water carried off site)
70	Trucks to be adequately covered when leaving site	Throughout works implementation	Achieved
71	Re use topsoil in rehabilitation works	Throughout works implementation	Achieved
72	Re use mulch in landscaping works	Throughout works implementation	Achieved
73	Areas designated for waste storage are to be inspected for containment and disposal by the Contractor as part of weekly works site inspection. Waste amounts sent for recycling and to landfill are to be recorded as they leave the site and included in monthly progress reports	Throughout works implementation Weekly	Partially achieved. Details of waste volumes (which are minimal in the type of works undertaken) are not reported to JAH.
74	Observations and amounts when available to be incorporated in site report	Throughout works implementation	Refer CEMP 73 above.
75	If practices are inconsistent with environmental best practice, action must be undertaken to remedy the situation immediately. Non-conformance and corrective action notices to be prepared and actioned	Throughout works implementation Immediately	Not applicable in 13/14 FY
Handling & Storage of Hazardous Materials			
76	Establish a suitable dangerous goods storage area (in compliance with statutory regulations), including stores and waste chemical compounds. Prohibit open containers being left out in the open and use drip trays when decanting materials	Throughout works implementation	Achieved
77	Establish temporary bunding for hazardous material storage during construction	Throughout works implementation During construction	Achieved
78	All dangerous goods are to be stored in accordance with Dangerous Goods legislation	Throughout works implementation	Achieved

Table 5. CEMP			
Action		Timing	2013/14 Action Status
79	Any waste oil is to be collected and transported to recyclers or a designated disposal site with 24 hours of a waste storage vessel reaching capacity	Throughout works implementation Within 24 hours	Not applicable in 13/14 (no waste oil was generated on site)
80	Contractor to develop a spill control plan and educate workers in its provisions. This plan is to be readily available on site	Throughout works implementation	Achieved
81	Any leakage or spills to be immediately contained and cleaned up to the satisfaction of the JAH Environment Manager	Throughout works implementation Immediately	Not applicable in 13/14 – No spills reported
82	Written emergency and incident procedures to be communicated to all site personnel	Throughout works implementation	Achieved
83	Material Safety Data Sheets (MSDS) for all chemicals on site to be readily available to site personnel with copy given to upon request	Throughout works implementation	Achieved
84	Ongoing visual inspection of handling and storage practices	Throughout works implementation Ongoing	Achieved
85	Non-conformances with best practice handling and storage procedures will be noted in monthly site report along with actions to remedy situation	Throughout works implementation Monthly	Not applicable in 13/14 – No non-conformances reported
86	Evidence Start up meetings / Toolbox meetings / Signed CEMP Agreement	Throughout works implementation	Achieved
87	If practices are inconsistent with environmental best practice, action must be undertaken to remedy the situation immediately. Non-conformance and corrective action notices to be prepared and actioned	Throughout works implementation	Not applicable in 13/14 – No non-conformances reported
Flora & Fauna			
88	No works to commence without the express approval by DITRDLG and JAH	Throughout works implementation	Achieved
89	Clearing is to take place on a staged basis as identified in the Jandakot Airport Offset Plan	Throughout works implementation Staged basis	Not applicable in 13/14 FY. No clearing occurred in 2013/14.
90	Preconstruction protocol to be followed prior to works commencing as set out in Appendix C	Throughout works implementation. Prior to works commencing	Achieved
61	All work personnel will be briefed regarding the location of threatened listed species prior to works commencing	Throughout works implementation Prior to works commencing	Achieved
92	Regular toolbox meeting regarding Flora and Fauna to be undertaken as required	Throughout works implementation Regularly as required	Achieved (noting no clearing occurred and all works were separated from Conservation Precincts via 1.8m chain mesh or temporary fauna-proof construction fencing).
93	The designated area for work will have a steel stake and single strand white wire demarcation have barriers around the extent of the site	Throughout works implementation	Achieved. In 2013/14 designated work areas were separated from Conservation Precincts via chain mesh security

Table 5. CEMP			
Action		Timing	2013/14 Action Status
			fencing or wildlife-proof temporary construction fencing.
94	Boundaries of conservation precincts 1A and 1B will be surveyed and demarcated with steel stakes and single strand white wire to exclude construction activities but allow fauna to enter the conservation precincts	Throughout works implementation	Not applicable in 13/14
95	Areas of conservation areas adjoining the works precincts, which will not be impacted by the works, will be clearly marked to avoid vehicle damage and spillage of spoil	Throughout works implementation	Achieved. In 2013/14 designated work areas were separated from Conservation Precincts via chain mesh security fencing or wildlife-proof temporary construction fencing.
96	Once clearing is complete adjacent to conservation precincts, permanent 1.8m high chain link fence will be installed at the precinct boundary, unless the fencing strategy in the Conservation Management Plan requires an alternative design	Throughout works implementation Once clearing adjacent to conservation precincts is complete	Achieved. Whilst fencing had been installed in previous years, the fence was removed and realigned in an area outside of Precinct 1A boundary during Stage 1 East Link Rd works.
97	Fauna to be encouraged to move to conservation precincts or captured by experts for relocation to appropriate habitat	Throughout works implementation	Not applicable in 13/14 – no clearing undertaken.
98	Vehicle access lanes will be clearly defined by markers and access to the construction zone will be on existing gravelled paved surfaces or existing and former airside roads whenever possible	Throughout works implementation	Not applicable in 13/14 – No access to Conservation Precincts required/permitted during construction.
99	All vehicles, plant and equipment will be contained within the work site at all times when parked	Throughout works implementation	Achieved
100	All vehicles used by the contractor will have clean tyres to prevent weed seeds, spoil and other debris	Throughout works implementation	Achieved
101	Vehicles will be washed where necessary before entering the site and dieback hygiene precautions implemented in accordance with the Jandakot Airport Dieback Management Plan. Appendix I	Throughout works implementation	Achieved
102	No fluffing or unnecessary disturbance of soil	Throughout works implementation	Achieved
103	No topsoil to be added on disturbed areas	Throughout works implementation	Achieved. Note that topsoil was used for rehabilitation of batters within the developed areas – consistent with CEMP71.
104	Maintenance of plant and machinery must occur outside the designated construction/clearing area	Throughout works implementation	Achieved

Table 5. CEMP			
Action		Timing	2013/14 Action Status
105	No fill, topsoil or spoil to be stockpiled on or near conservation areas	Throughout works implementation	Achieved
106	Native species to be used in landscaping in accordance with the Jandakot Airport design guidelines. Species list refer appendix H	Throughout works implementation	Achieved
107	Native species to include Carnaby's Black Cockatoo foraging plant species	Throughout works implementation	Achieved
108	Daily visual checks and monthly compliance checks to be conducted. Additional compliance checks to be conducted when workings in areas adjacent to edge of construction site	Throughout works implementation Daily/monthly	Achieved (contractor checklists submitted to JAH).
109	Observations made during inspections to be incorporated in Contractor's site report. Any clearing of native vegetation undertaken which is inconsistent with the clearing plan as determined through the pre-construction protocol, will be reported to DEWHA within 3 days of it occurring	Throughout works implementation Within 3 days	Achieved (contractor checklists submitted to JAH).
110	If complaints are received, Contractor must immediately alleviate problem	Throughout works implementation Immediately	Not applicable in 13/14 – no complaints received regarding flora or fauna.
Staff & Contractor Training			
111	Project/site induction is to include instruction on the CEMP and its requirements. Particular attention should be given to the specific actions required, responsibility and timings for each action	Prior to commencement of works and as required for new personnel	Achieved
112	Undertake all activities in accordance with the agreed plans of management, procedures and work methods	Prior to commencement of works and as required for new personnel	Achieved
113	Ensure that they are aware of the contact person regarding environmental matters	Prior to commencement of works and as required for new personnel	Achieved
114	Report any activity that has resulted, or has the potential to result, in an environmental incident	Prior to commencement of works and as required for new personnel	Achieved
115	Ensure that they attend the environmental training provided	Prior to commencement of works and as required for new personnel	Achieved
116	Regular inspection of activities carried out on site to identify compliance with the CEMP	Prior to commencement of works and as required for new personnel Regularly	Achieved (contractor checklists submitted to JAH).
117	The induction of personnel working on the works site to the CEMP will be noted in the	Prior to commencement of	Achieved

Table 5. CEMP

Action		Timing	2013/14 Action Status
	Contractor's site report	works and as required for new personnel	
118	Where individuals are identified as carrying out work in a manner contrary to the objectives of the CEMP, they will be apprised of the problems and given appropriate training in best practices to remedy the deficiency	Prior to commencement of works and as required for new personnel	Not applicable in 13/14 – no complaints received regarding activities of individuals (noting complaints regarding dust/sand received in 13/14 cannot be attributed to the activity of an individual).

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