



**EPBC Annual Compliance Report
2016-2017**

**EPBC 2009/4796
Jandakot Airport Expansion,
Commercial Development and Clearance of
Native Vegetation, WA**

and

**EPBC 2013/7032
Jandakot Airport Precinct 6 and 6A**

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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 (which is consistent with Master Plan 2014).

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 the Department of the Environment and Energy (DoEE) (previously DEWHA, DSEWPAC and DoE) 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.

In July 2014, DoEE approved EPBC 2013/7032 that allows for the clearing and development of Precincts 6 and 6A as detailed within Master Plan 2014. This action commenced in 2015/16 and JAH has included EPBC 2013/7032 conditions of approval within this compliance report.

1.1 Management Plan Amendments

No amendments to Management Plans were made in 2016/17, noting:

- The CMP (main document and Appendix E) was amended in 2015/16. It was submitted to DoEE for approval 23/12/15 and approved 8/7/16.

2 CONDITIONS OF APPROVAL

Table 1.1 below summarises compliance with EPBC 2009/4796 conditions of approval during 2016/17.

Table 1.1. EPBC 2009/4796 Conditions of Approval (as of 8/4/14)		
Condition		2016/17 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>Up until the start of 2016/17, 116.8ha (or 106.125 ha when existing cleared areas such as tracks and firebreaks are subtracted from the total) had been cleared.</p> <p>In 2016/17 a further 41ha (from Offset Plan Stage 3) was cleared for runway extension works.</p> <p>As of 30 June 2017, 157.8ha (or 139.2508 ha when existing cleared areas such as tracks and firebreaks are subtracted from the total) has been cleared to date. This excludes approved clearing permitted under EPBC 2013/7032.</p> <p>a) Clearing is staged with construction works (initially cut/fill site levelling, followed by civil works) occurring.</p> <p>b) JAH did not undertake any clearing in 1A, 1B, 2A or 2B in 2016/17.</p> <p>c) JAH did not undertake any clearing in 1A, 1B, 2A or 2B in 2016/17.</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>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 and clearing commenced in 2015.</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 and condition 6(d)v.</p>	<p>Compliant</p> <p>Precincts 1A, 1B, 2A and 2B remain Conservation Precincts and are managed accordingly. Master Plan 2014 demonstrates these areas remain Conservation Precincts.</p>
4	<p>The person taking the action must develop and submit a Jandakot Airport Offset Plan which must include but not be</p>	<p>Compliant</p> <p>The Jandakot Airport Offset Plan</p>

Table 1.1. EPBC 2009/4796 Conditions of Approval (as of 8/4/14)

Condition		2016/17 Compliance Summary
	<p>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>(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 (now DBCA) to be made prior to staged clearing (consistent with amended condition 4b).</p> <p>Current Offset Plan that addresses conditions 4b-4e (approved by DoEE on 23/4/14) is published on the JAH website. 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 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>N/A – Condition 5 is no longer an active condition.</p>
6	<p>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</p>	<p>Compliant</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</p>

Table 1.1. EPBC 2009/4796 Conditions of Approval (as of 8/4/14)

Condition	2016/17 Compliance Summary
<p>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> <ul style="list-style-type: none"> i. Mapping of native vegetation, including type, condition and <i>Phytophthora cinnamomi</i> dieback infested areas; ii. Environmentally significant areas and their protection; iii. Monitoring regimes and survey methods; iv. Thresholds for triggering further management intervention in response to condition 6(d)iii outputs; v. Bushfire management including firebreaks and emergency access tracks; vi. Weed control; vii. <i>Phytophthora cinnamomi</i> dieback control; viii. Rehabilitation and revegetation guidelines; <p>e) Orchid management, including but not limited to:</p> <ul style="list-style-type: none"> i. Mapping of individual <i>Caladenia huegelii</i> and <i>Drakaea elastica</i> plants; ii. Results of surveys and details of any current and future surveys; iii. Monitoring regimes and survey methods; iv. Thresholds for triggering further management intervention in response to condition 6(e)ii and 6(e)iii outputs; v. Grand Spider-orchid (<i>Caladenia huegelii</i>) management and translocation procedures; 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 <i>Caladenia</i>’ (Dixon and Swarts, undated); vii. Justification of the road alignment through precinct 1B. <p>f) Fauna management, including but not limited to:</p> <ul style="list-style-type: none"> 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; 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>); iii. Thresholds for triggering further management intervention in response to condition 6(f)i and 6(f)ii outputs; iv. Feral animal control measures for the protection of Quenda (<i>Isoodon obesulus fusciventer</i>) and Western Brush Wallaby (<i>Macropus irma</i>); v. A fauna road crossing strategy to facilitate terrestrial fauna movement; vi. A fencing strategy to facilitate terrestrial fauna movement; 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>g) A strategy for public consultation and public participation in</p>	<p>(v11 21/1/2014) and submitted to DoEE for the Minister’s approval – which was subsequently granted 8/4/14.</p> <p>Specific elements of the CMP addressing primarily orchid, quenda and wallaby management (i.e. the primary document and Appendix E), were reviewed and amended. It was submitted for approval 23/12/15 and approved 8/7/16.</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 1.1. EPBC 2009/4796 Conditions of Approval (as of 8/4/14)

	Condition	2016/17 Compliance Summary
	<p>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>	
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: 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; 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 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.</p> <p>The GMP was further reviewed and amended in early 2014 and submitted to DoEE for approval in July 2014. Following approval of EPBC 2013/7032, JAH made further amendments to the GMP (including reviewing and amending the Local Water Management Strategy) to address the requirements of both EPBC 2009/4796 and EPBC 2013/7032 within a single document. This GMP (V5.4) was submitted 4/3/15 and approved 24/7/15, with the DoEE confirming that it satisfied the requirements of Condition 7.</p> <p>A minor amendment (raised with DoEE 21/10/15) to the GMP (V5.5) was submitted 1/2/16 and approved 14/3/16, with the DoEE confirming that it satisfied the requirements of Condition 7.</p> <p>Implementation of the Groundwater Management Plan is addressed in Table 4.</p> <p>The approved Groundwater Management Plan that addresses condition 7 is published on the JAH website. http://www.jandakotairport.com.au/environment/environment-plans.html</p>
8	<p>The person taking the action must develop and submit a Construction Environment Management Plan (CEMP) to the</p>	<p>Compliant The Jandakot Airport CEMP (V7</p>

Table 1.1. EPBC 2009/4796 Conditions of Approval (as of 8/4/14)

	Condition	2016/17 Compliance Summary
	<p>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. 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. The CEMP must be approved by the Minister before construction commences. The approved CEMP must be implemented. 	<p>3/6/10) had already been submitted and approved by the Minister.</p> <p>An amended CEMP was submitted to DoEE for approval 13/2/15. Amendments were made to address deficiencies that had been identified within a previous audit, and to address the requirements of EPBC 2009/4796 and EPBC 2013/7032 within a single CEMP document. This CEMP (V8.2) was approved 24/7/15, with the DoEE confirming that it satisfied the requirements of Condition 8.</p> <p>Implementation of the CEMP is addressed in Table 5.</p> <p>This current approved CEMP addressing Condition 8 is published on the JAH website. http://www.jandakotairport.com.au/environment/environment-plans.html</p>
9	<p>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.</p>	<p>Compliant All MDPs are consistent with EPBC 2009/4796 approval. No new MDPs were developed in 2016/17.</p>
10	<p>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.</p>	<p>Compliant No changes were made to the Master Plan or Environment Strategy in 2016/17.</p> <p>Master Plan 2009 and Environment Strategy 2009 (valid until February 2015) were consistent with EPBC 2009/4796 approval.</p> <p>Master Plan 2014 (which incorporated the Environment Strategy) was approved by the Minister of Infrastructure and Regional Development in February 2015. Master Plan 2014 is consistent with EPBC 2009/4796 approval.</p>
11	<p>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</p>	<p>Not applicable in 16/17 FY The Minister has not requested specified revisions in 2016/17.</p>

Table 1.1. EPBC 2009/4796 Conditions of Approval (as of 8/4/14)		
Condition		2016/17 Compliance Summary
	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.	
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 The following plans were submitted for DoEE for approval in 2015/16 and subsequently approved in 2016/17: <ul style="list-style-type: none"> • Conservation Management Plan V12 (submitted 23/12/15 - approved by DoEE 8/7/16). • Conservation Management Plan Appendix E (submitted 23/12/15 - approved by DoEE 8/7/16).
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 2016/17 FY.
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 DoEE request for records was received by JAH and no auditing was undertaken/instructed by DoEE.
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 2016/17 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. The 2015/16 EPBC Compliance Report was submitted to DoEE 20/10/16 along with the Annual Environment Report. The 2015/16 Annual EPBC Compliance Report was published on the Jandakot Airport website http://www.jandakotairport.com.au/environment/environment-plans.html .
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	Once approved, all EPBC-related management plans are published on the JAH website http://www.jandakotairport.com.au/environment/environment-plans.html .

Table 1.1. EPBC 2009/4796 Conditions of Approval (as of 8/4/14)

Condition		2016/17 Compliance Summary
	duration of the approval or until otherwise accepted in writing by the Minister .	CMP (V12.1) and CMP Appendix E – Approved 8/7/16. Email with screenshot sent to DoEE confirming publication on website 11/7/16.

Table 1.2. EPBC 2013/7032 Conditions of Approval		
Condition		2016/17 Compliance Summary
1	<p>The person taking the action must not clear more than 51 hectares (ha) of native vegetation that provides foraging habitat for Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>) from the proposal site ("Precincts 6 and 6A" within the Map at Schedule 1 and 2). This clearing may only be taken if the management plans required under conditions 2 and 3 have both been approved by the Minister.</p>	<p>Compliant. Precinct 6/6A clearing of 50.1 ha began 17/9/15. DoEE (post approvals, Compliance and Enforcement branch) were notified in writing in a letter dated 31/9/15. Of the 50.1 ha, approx. 6.03ha were initially retained as temporary buffers. Of this 6.03 ha, 3.4 ha (airside buffer) was cleared in June 2016 leaving only the boundary buffer (approx. 2.65 ha) which was cleared in Dec 2016-Jan 2017.</p>
2	<p>To mitigate impacts to the environment from an action on Commonwealth land, in particular the Jandakot Groundwater Mound, the person taking the action must prepare and submit a revised Groundwater Management Plan to the Minister for approval. The revised plan must be submitted at least 3 months prior to commencement of the action.</p> <p>The revised plan must include, but not be limited to:</p> <ul style="list-style-type: none"> a) The introduction of a sewage system b) Provision of groundwater monitoring reports to the Western Australian Department of Water and Water Corporation; c) A water management strategy, specifically designed for Precincts 6 and 6A; d) Schedules for independent audit of groundwater monitoring results and reports; e) Spill avoidance, management and rehabilitation measures and procedures; f) Groundwater monitoring; and g) Acceptable development types. <p>If the Minister approved the revised plan, the approved revised plan must be implemented.</p>	<p>Compliance for revision and approval of the GMP was achieved in 2015/16 and the GMP remained unchanged in 2016/17.</p>
3	<p>To mitigate impacts to the environment on Commonwealth land and Carnaby's Black Cockatoo, prior to the commencement of the action, the person taking the action must prepare and submit a Construction Environmental Management Plan (CEMP) to the Minister for approval. The CEMP must be submitted at least 3 months prior to commencement of the action.</p> <p>The CEMP must include, but not limited to:</p> <ul style="list-style-type: none"> a) Avoidance and mitigation measures to prevent impacts to Carnaby's Black Cockatoos following the commencement of the Action; b) Measures to physically delineate area that are within Conservation Precinct 2A (as illustrated within the map at Schedule 1); c) Management measures to control weeds, <i>Phytophthora dieback</i>, erosion, sedimentation, dust and construction noise. 	<p>Compliant. The revised CEMP was submitted more than 3 months before the commencement of the action.</p> <p>Following approval of EPBC 2013/7032, JAH made amendments to the CEMP developed for EPBC 2009/4796 in order to address the conditions of both approvals within a single CEMP document. The amended CEMP was submitted to DoEE for approval 13/2/15.</p> <p>The CEMP was reviewed by DoEE and found to address the requirements of conditions 3a-f.</p>

Table 1.2. EPBC 2013/7032 Conditions of Approval		
Condition		2016/17 Compliance Summary
	<ul style="list-style-type: none"> d) Details of monitoring, reporting and contingency measures if performance indicators are not met; e) Timeframes for the implementation of the above measures; and f) Descriptions of the roles and responsibilities of personnel associated with the implementation of measures. <p>If the Minister approves the CEMP the approved CEMP must be implemented.</p>	The CEMP (V8.2) was approved 24/7/15 and is currently being implemented.
4	<p>Wording of Condition 4 to 28 July 2015 To offset the loss of Carnaby's Black Cockatoo foraging habitat, the person taking the action must:</p> <ul style="list-style-type: none"> a) Prior to commencement of the action, provide the Department with written evidence that funds have been provided to the Western Australian Department of Parks and Wildlife (DPaW) for the acquisition of at least 600 ha offset property in the vicinity of Gingin, Western Australia. b) Provide a textual description and map clearly defining the location and boundaries of the offset property and be accompanied with the offset attributes and shapefiles. <p>Wording of Condition 4 from 28 July 2015 To offset the loss of Carnaby's Black Cockatoo foraging habitat, the person taking the action must:</p> <ul style="list-style-type: none"> a) Within 6 months from the date of the commencement of the action, provide the Department with written evidence that either: <ul style="list-style-type: none"> a. Sufficient that funds have been provided to the Western Australian Department of Parks and Wildlife (DPaW) to enable acquisition of at least a 600 ha offset property in the vicinity of Gingin, Western Australia. b. That at least 600ha of offset property in the vicinity of Gingin, WA that meets the requirements of the EPBC Environmental Offsets Policy has been purchased by the person taking the action and transferred to DPaW for reservation as a Nature Reserve. b) Provide a textual description and map clearly defining the location and boundaries of the offset property and be accompanied with the offset attributes and shapefiles. 	<p>N/A in 2016/17 (Compliance achieved 2015/16).</p> <p>Three land parcels were transferred to the State on 21/9/15. The three blocks (Lots 1711, 1125 & 3444) total 604 ha. DPaW (now DBCA) advised DoEE 7/9/15 that they had inspected the properties and found them suitable for the offset. DPaW advised 24/12/15 that they had initiated the necessary action to have the 604ha reserved as nature reserve. DPaW provided DoEE with spatial data requirements on 2/2/16.</p>
5	<p>Within 30 days after the commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.</p>	<p>N/A in 2016/17 (Compliance achieved 2015/16).</p> <p>Precinct 6/6A clearing of 50.1 ha began 17/8/15. DoEE (post approvals, Compliance and Enforcement branch) were notified in writing in a letter dated 31/8/15.</p>
6	<p>The person taking the action must maintain accurate records substantiating all activities associated with or</p>	<p>Compliant JAH maintains records relating to</p>

Table 1.2. EPBC 2013/7032 Conditions of Approval		
Condition		2016/17 Compliance Summary
	relevant to the conditions of approval, including measures taken to implement the management plans required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits may also be publicised through the general media.	EPBC 2013/7032 and associated conditions of approval. No DoEE request for records was received by JAH and no auditing was undertaken/instructed by DoEE.
7	If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plans as specified in the conditions, the person taking the action must submit to the Department for the Minister's written approval a revised version of the management plans. The varied activity shall not commence until the Minister has approved the varied management plans in writing. The Minister will not approve the varied management plans unless the revised management plans would result in an equivalent or improved outcome over time. If the Minister approves the revised management plans, the management plans must be implemented in place of the management plans originally approved.	Compliant No amendments to the GMP or CEMP were made in 2016/17.
8	If the Minister believes that it is necessary or convenient for the better protection of listed threatened species and communities to do so, the Minister may request that the person taking the action make specified revisions to the management plans specified in the conditions and submit the revised management plans for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plans must be implemented. Unless the Minister has approved the revised management plans, then the person taking the action must continue to implement the management plans originally approved, as specified in the conditions.	Not applicable in 16/17 FY The Minister has not requested specified revisions in 2016/17.
9	Unless otherwise agreed to in writing by the Minister , the person taking the action must publish the management plans referred to in these conditions of approval on their website. The management plans must be published on the website within one (1) month of being approved. The management plans must remain on the website for the duration of the action.	Compliant. Once approved, all EPBC-related management plans are published on the JAH website http://www.jandakotairport.com.au/environment/environment-plans.html . No amendments to the GMP or CEMP were made in 2016/17.

3 OFFSET MANAGEMENT PLAN

Table 2 below summarises the 2016/17 status of actions contained within the Offset Management Plan.

Table 2. Offset Plan (V14)			
Action		Timing	2016/17 Action Summary
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 16/17 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 16/17 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 16/17 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 16/17 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. DPaW confirmed 19/8/16 that DPaW did not have a requirement for the excess topsoil. 5000m3 topsoil was provided to WA Dept of Planning in May-June 2017 for works at Harrisdale Swamp.
6	This amount will be paid as outlined in Table 3.7	Refer to Offset Plan Table 3.7	Prior to 2016/17 FY payments of \$6,516,666.67 (ex GST) had been made. In 2016/17 payment of \$2,300,000 + GST was made 18/8/16 for Stage 3 (41ha) prior to the clearing of 33.1258 ha commencing 10/10/16. As of 30 June 2017, \$8,816,666.67 (ex GST) had been paid 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 16/17 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 16/17 FY
9	JAH will provide DEWHA with correspondence between JAH and DEC confirming DEC's agreement to the disbursement of funds and		Not applicable in 16/17 FY

Table 2. Offset Plan (V14)			
Action		Timing	2016/17 Action Summary
	stating the intended use of the funds		
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 16/17 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 16/17 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 • 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 		Not applicable in 16/17 FY
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 16/17 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 16/17 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 16/17 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	Not applicable in 16/17 FY. All payments completed 31/3/14.
17	The first payment will be made within one year from approval of the proposal	By 25 March 2011	Not applicable in 16/17 FY
18	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: <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 		Not applicable Note that the DoEE 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.

Table 2. Offset Plan (V14)			
Action		Timing	2016/17 Action Summary
	will/may be funded.		
19	No construction will take place before the Minister approves the Jandakot Airport Offset Plan	Approval of Offset Plan	Not applicable in 16/17 FY
20	If consent cannot be obtained from the Canning City Council for the rehabilitation of precincts 7 and 8, JAH will provide:- - topsoil to DEC - pay to DEC prior to the staged clearing of vegetation (refer Table 3.7 of Offsets Plan). The DEC offset payment will take place at least in proportion to the clearing to be undertaken in each stage	Refer Table 3.7 of Offsets Plan	Achieved. Consistent with Table 3.7 of Offset Plan, a proportional payment of \$2.3 million (ex GST) addressing the 41 ha Stage 3 clearing was made in 2016/17. Payments of \$8,816,666.67 (Ex GST) have been made to date. DPaW confirmed 19/8/16 that DPaW did not have a requirement for the excess topsoil.
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	Achieved. DoEE were advised of the confirmed payment to DPaW via email 28/9/16.
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 16/17 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 16/17 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	Not applicable in 16/17 FY (all payments completed 14/15 FY). Whilst payments were not 'equal annual amounts', annual payments were consistent with the BGPA research proposal 'Integrated Conservation and Translocation Research Program for <i>Caladenia huegelii</i> ' and each annual payment was above that which is required in the Offset Plan.
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 16/17 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	Not applicable in 16/17 FY All required payments were finalised in 14/15 FY

Table 2. Offset Plan (V14)

Action		Timing	2016/17 Action Summary
			(31/3/15).
27	An annual progress report, presentation of work to date and discussion of the following years objectives will be provided	Annually	Not applicable in 16/17 FY as the 5-year research program has concluded. Final Report forwarded to DoEE within the 2014/15 Annual Environment Report (submitted 23/10/15).
28	In addition a six month summary of research highlights will also be provided	Every 6 months	Not applicable in 16/17 FY as the 5-year research program has concluded.
29	A final report will be provided to DEWHA by 31 January 2016	By 31 January 2016	Not applicable in 16/17 FY. Final Report forwarded to DoEE within the 2014/15 Annual Environment Report (submitted 23/10/15).
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 16/17 FY
31	Confirmation of this payment will be given to DEWHA prior to any clearing	Prior to any clearing	Not applicable in 16/17 FY

4 CONSERVATION MANAGEMENT PLAN

Table 3.1 below summarises the 2016/17 status of actions contained within the Conservation Management Plan.

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2016/17 Action Status
Native Vegetation Management				
CMP1	Undertake Bushland Condition Survey and update Bushland Condition mapping every 5 years.	JAH EM	End of 2016	Achieved
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 16/17 FY however bushland condition mapping was updated as a result of action CMP1 above.
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 16/17 FY
CMP4	Implement site-specific revegetation plan developed under CMP3.	JAH EM	As detailed in site-specific revegetation plan.	Not applicable in 16/17 FY
CMP5	Review Rehabilitation and Revegetation Guidelines.	JAH EM	End of 2018.	Not applicable in 16/17 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 16/17 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 16/17 FY
CMP8	Review Section 5 of CMP to include updated thresholds and management requirements identified as relevant to Jandakot Airport as a result of the final Quadrat Monitoring Report (if required).	JAH EM	Within 6 months of the 2015 (final) Quadrat Monitoring Report being finalised.	Reviewed and amendments beyond those made in V12.1 (approved 8/7/16) not required.
CMP9	Monitor orchids with motion-sensitive cameras in an attempt to determine which herbivores are	JAH EM	2016	Achieved

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2016/17 Action Status
	responsible for the grazing impacts on <i>C. huegelii</i> .			
CMP10	Undertake annual monitoring of translocated orchids.	JAH EM	Annually until 2018	Achieved
CMP11	Identify (i.e. tag) and record location details on database of <i>C. huegelii</i> plants identified opportunistically.	JAH EM	Spring, annually from 2014.	Achieved
CMP12	Complete <i>C. huegelii</i> census and update database.	JAH EM	At intervals no greater than every 5 years with the next survey (including mapping) to be completed before the end of 2018.	In progress. Commenced in Spring 2016 to be completed in Spring 2017.
CMP13	Restrict access to Conservation Precincts containing <i>C. huegelii</i> persons (e.g. staff, contractors and researchers) with a valid reason for entry.	JAH EM	At all times.	Achieved
CMP14	Staff and contractors working in the vicinity of endangered orchids will be made aware of their presence and significance (e.g. via CEMPs, inductions, toolbox meetings or signage).	JAH EM	At all times.	Achieved
CMP15	Prohibit controlled burning as a fuel reduction technique.	JAH EM	At all times unless advice provided by orchid experts indicating action would not be detrimental to the population.	Achieved.
CMP16	Include open flowered members of Myrtaceae in perimeter plantings (Precinct 1A and 1B) and in bushland rehabilitation. A minimum of 50 Myrtaceae plants will be planted on the southern boundary of Precinct 1A.	JAH EM	When the need for planting/rehabilitation is identified. Precinct 1A boundary planting to be completed in Winter 2017.	Achieved winter 2016.
CMP17	Undertake hand pollination	JAH EM	Annually if	Achieved. Seed

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2016/17 Action Status
	and subsequent seed pod collection in fenced orchid quadrat for seed banking and/or research purposes.		requirement for seed is confirmed by BGPA or relevant research institution.	provided to Prof Kingsley Dixon.
CMP18	Consult with orchid experts for advice on necessary management actions if results of the next <i>C. huegelii</i> census show a population decline of more than 25%.	JAH EM	If triggered, prior to the finalisation of the 2018 CMP review.	Not applicable in 16/17 FY
CMP19	Liaise with DOE if East Link Road Alignment differs from that detailed in Master Plan 2014.	JAH EM	If applicable, prior to road construction works commencing.	Not applicable in 16/17 FY
CMP20	Engage orchid experts to salvage any <i>C. huegelii</i> plants impacted by the East Link Road.	JAH EM	If applicable, prior to road construction works commencing.	Not applicable in 16/17 FY
Fauna Management – Carnaby's Black-Cockatoo				
CMP21	Participate in the Annual Great Cocky Count survey.	JAH EM	Annually	Achieved 9 th April 2017.
Fauna Management – Quenda				
CMP22	Undertake passive quenda monitoring within the Conservation Precincts.	JAH EM	2017	Not applicable in 16/17 FY
CMP23	Consult with fauna experts for advice on management actions if passive monitoring reveals the absence of quenda within Conservation Precincts.	JAH EM	2017	Not applicable in 16/17 FY
CMP24	Capture and relocate quenda from large bushland areas prior to undertaking approved clearing activities.	JAH EM	Prior to clearing.	Achieved. Quenda captured and relocated from Precinct 3 in October 2016 (staged with clearing).
Fauna Management – Western Brush Wallaby				
CMP25	Undertake a Wallaby Survey in Conservation Precincts 1A, 1B & 2A.	JAH-EM	Within 6 months of the completion of Stage 3 clearing and the erection of new airside fencing surrounding Precinct 2A	Achieved. Full survey of all areas completed Spring 2014 & repeated in 2A (June 2017).

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2016/17 Action Status
			but before establishing a fauna corridor between Precinct 2A and Jandakot Regional Park Acourt Reserve.	
CMP26	Establish a fauna corridor/connectivity for wallabies between Precinct 2A and Jandakot Regional Park Acourt Reserve.	JAH EM	Following the completion of Stage 3 clearing (as identified in the Offset Plan) and the erection of new airside fencing surrounding Precinct 2A.	Not applicable in 16/17 FY though planning commenced for installation in Spring 2017.
CMP27	Monitor established fauna corridor between Precinct 2A and Jandakot Regional Park Acourt Reserve.	JAH EM	Upon establishment of the corridor.	Not applicable in 16/17 FY
CMP28	Review and report on trends associated with aircraft safety wildlife incidents within AER.	JAH EM	Annually	Achieved
CMP29	Obtain Dangerous Fauna or Damage Permits/Licenses from DPAW.	JAH EM	Prior to undertaking actions requiring permits/license.	Achieved
Fauna Road Crossing and Fencing				
CMP30	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 16/17 FY
CMP31	Liaise with City of Melville to determine if any measures are required to aid wildlife connectivity between Ken Hurst Park and Precincts 1A and 1B.	JAH EM	Within 12 months of East Link Road alignment being finalised.	Not applicable in 16/17 FY
Future Identification of Flora and Fauna Species				
CMP32	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.	Not applicable in 16/17 FY
Stakeholder Consultation				

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2016/17 Action Status
CMP33	Report on Stakeholder Consultation within JAH AER.	JAH EM	28 October Annually.	Achieved
Reporting Requirements				
CMP34	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				
CMP35	Undertake a full comprehensive review and amendment of CMP.	JAH EM	Every 5 years (2018).	Not applicable in 16/17 FY
CMP36	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 16/17 FY

4.2 Weed Management Plan

Table 3.2 below summarises the 2016/17 status of actions contained within the Weed Management Plan (CMP Appendix B).

Table 3.2. Weed Management Plan Summary of Actions.				
Action		Responsibility	Timing	2016/17 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	Achieved
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.)	Achieved via WMP3.
WMP7	Update and revise the existing Environmental Weed Management Plan.	JAH EM	2018	Not applicable in 16/17 FY

4.4 Dieback Management Plan

Table 3.3 below summarises the 2016/17 status of actions contained within the Dieback Management Plan (CMP Appendix C).

Table 1. Dieback Management Plan (V9) Summary of Actions.				
Action		Responsibility	Timing	2016/17 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	2018 and then Triennially.	Not applicable in 16/17 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 16/17 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 16/17 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 16/17 FY
DMP6	Inspect dieback signage and replace/update if required.	JAH EM.	Annually (July each year).	Achieved

Table 1. Dieback Management Plan (V9) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
<i>Construction and Earthmoving</i>				
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 – Refer to CEMP V8.2 Section 5.9
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 – Refer to CEMP V8.2 Section 5.9
<i>Drainage</i>				
DMP9	Design new developments/drainage works to avoid stormwater discharge from dieback infested or uninterpretable areas into uninfested bushland areas.	JAH EM in consultation with contractors and JAH staff.	Where relevant, to be included in CEMP prior to works commencing.	Achieved
<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 16/17 FY
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, impost 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 16/17 FY. No requests received.
DMP13	Facilitate access by researchers to Jandakot Airport dieback	JAH EM	Following receipt of request from a	Not applicable in 16/17 FY.

Table 1. Dieback Management Plan (V9) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
	infestations (subject to assessment and approval as described in DMP12).		research institution or government agency.	
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 16/17 FY.
Monitoring and Contingency Requirements				
DMP15	Undertake dieback reassessment.	JAH EM.	2017 then Triennially.	Not applicable in 16/17 FY
DMP16	Enter suspected new infestations or suspected rapid spread of existing infestations observed in between triennial dieback assessments into the JAH Safety Management System database as an Environment Incident.	JAH EM	Within 7 days of a suspected new infestation or rapid spread of an existing infestation being reported.	Not applicable in 16/17 FY. No new or suspected infestations observed.
DMP17	Implement actions identified from the Environment Incident investigation process commenced under DMP16	JAH EM	In accordance with timing identified under Environment Incident investigation process.	Not applicable in 16/17 FY
Communication				
DMP18	Publish the amended DMP on the JAH website.	JAH EM	Within 4 weeks of DMP review completion (or, if applicable, within one month of endorsement by relevant government regulator).	Achieved
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 applicable, within one month of endorsement by relevant government	Not applicable in 2016/17

Table 1. Dieback Management Plan (V9) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
			regulator).	
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
DMP23	Report against actions of the DMP within an Annual Compliance Report (ref Condition 16 of EPBC 2009/4796) and publish on the JAH website.	JAH EM	28 October Annually.	Achieved. The 2015/16 AER containing the Annual Compliance Report was submitted to DIRD and DoEE 20/10/16. The Annual Compliance Report was published on the JAH website.
Review and Amendment of DMP				
DMP24	Review and update (if required) DMP following triennial dieback survey.	JAH EM	June 2018, then Triennially.	Not applicable in 2016/17.

4.5 Feral Animal Management Plan

Table 3.4 below summarises the 2016/17 status of actions contained within the Feral Animal Management Plan (CMP Appendix F).

Table 3.4. Feral Animal Management Plan Summary of Actions.				
Action		Responsibility	Timing	2016/17 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. DF000492 amended 28/9/16 and replaced by 09-000673-1 (18/5/17). DF000491 replaced by 09-000672-1 (18/5/17)
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 - licence returns were completed for both licences as part of renewal process.
FAMP3	Inspect/maintain Shoo Roo Units and undertake repairs if required.	JAH OM/SASO.	Monthly.	The achievement of macropod exclusion fencing has made this action redundant – see FUS4 and FUS9.
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.	Partially Achieved. Previous permit valid until 31/10/2016 and (as advised in 15/16FY Compliance Report) advice from DAFWA was that renewal was unnecessary until prior to the next required baiting event (Autumn 2017) as the new permit would affect validity of the current permit. Upon renewal DAFWA referred the new permit application to the DBCA (previously DPAW) who requested JAH resubmit permit application using DBCA system. The permit was issued in time to undertake Autumn 2017 baiting (see Action FAMP8 below).
FAMP6	Notify tenants and neighbouring landholders.	JAH EM	At least 3 days prior to baiting	Achieved

Table 3.4. Feral Animal Management Plan Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
			event.	
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.	Achieved
FAMP8	Undertake 1080 fox and/or rabbit baiting.	JAH EM and 1080-trained ASOs.	Biannually (Spring and Autumn).	Achieved. 1080 baiting for foxes and rabbits occurred in Oct 2016 and May 2017. An additional fox baiting event was conducted in July 2016.
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 16/17 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 sightings or evidence of 'activity') for a period of 7 days.	Not applicable in 16/17 FY – no trapping required.
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 16/17 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 2016/17 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 DoEE approved CMP.

Table 3.5. Bushfire Management Plan –Actions.				
Action		Responsibility	Timing	2016/17 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	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).	Not applicable in 16/17 FY – no amendments.
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. JAH FM	Annually by start of fire season (31 October).	Achieved

Table 3.5. Bushfire Management Plan –Actions.				
Action		Responsibility	Timing	2016/17 Action Status
		(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 to Actions 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 to Action 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 – No issues or actions relevant to BFMP raised in 16/17.
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 16/17 FY. No updates to maps required.

Table 3.5. Bushfire Management Plan –Actions.				
Action		Responsibility	Timing	2016/17 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 16/17 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).	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 16/17 FY
BFMP18	Facilitate fauna rescue of animals injured by the fire.	JAH EM	Immediately after area is deemed "Safe".	Not applicable in 16/17 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 16/17 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 16/17 FY
Investigation				
BFMP21	Conduct post fire investigations in consultation with DFES.	JAH EM/JAH OM	ASAP after fire	Not applicable in 16/17 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 16/17 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 available.	Not applicable in 16/17 FY

Table 3.5. Bushfire Management Plan –Actions.				
Action		Responsibility	Timing	2016/17 Action Status
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 16/17 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 16/17 FY
BFMP26	Assess the fire-impacted area for rehabilitation and revegetation requirements.	JAH EM	As soon as possible after a fire.	Not applicable in 16/17 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 16/17 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.	Not applicable in 16/17 FY
Review				
BFMP29	Review and update BFMP.	JAH EM	2018.	Not applicable in 16/17 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 16/17 FY. This action will likely be undertaken in 17/18 FY.

4.7 Fencing and Underpass Strategy

Table 3.6 below summarises the 2016/17 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	2016/17 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 16/17 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 16/17 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 16/17 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.	Achieved – initially completed July 2014. Chain mesh security fence erected on Precinct 2A/3 boundary Dec 2016-Jan 2017 and Precinct 2A/6 boundary in Oct 2016.
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 16/17 FY.

Table 3.6. Wildlife Fencing and Underpass Strategy Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
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 16/17 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.	Achieved and addressed within the DPaW-approved wallaby relocation plan. To be implemented in Spring 2017.
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 16/17 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 16/17 FY.

4.9 Heritage Management Plan

Table 3.7 below summarises the 2016/17 status of actions contained within the Heritage Management Plan (CMP Appendix I).

Table 3.7. Heritage Management Plan Summary of Actions.				
Action		Responsibility	Timing	2016/17 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.	Achieved for both lot level developments (and prompted within CEMP template) and within the CEMP for Clearing and Civil Works V8.2.
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 16/17 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 16/17 FY.

5 GROUNDWATER MANAGEMENT PLAN

Table 4 below summarises the 2016/17 status of actions contained within the Groundwater Management Plan (GMP).

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
Acid Sulfate Soil Management				
GMP1	Investigate Acid Sulfate Soils in line with DER guidelines and triggers.	JAH EM to facilitate the proponent/contract or undertaking the proposed action.	Prior to any action that triggers the requirement for investigation.	Achieved. ASS investigated for Precinct 6 civil works.
GMP2	Develop and implement an ASSMP consistent with the DER Acid Sulfate Soils Guideline Series.	JAH EM to facilitate the proponent/contract or undertaking the proposed action.	If required (based on the findings of GMP1), ASSMP to be developed prior to undertaking any action that disturbs ASS as identified in an ASS Investigation.	Achieved. ASSMP developed and implemented for sewer pit installation and associated trenching in 2017.
Stormwater Management				
GMP3	Within the JUWPCA stormwater from roofs is collected and discharged into soakwells in order to facilitate and maximise groundwater recharge. NB. This excludes any roof water captured in approved rainwater tanks.	JAH EM	Ongoing	Achieved.
GMP4	Stormwater from all roads, carparks and external hardstands within the JUWPCA is discharged into a drainage basin(s) located outside of the JUWPCA with stormwater from higher risk areas having passed through appropriate treatment devices such as interceptors and/or separators when warranted.	JAH EM	Ongoing	Achieved.
Sewage Management				
GMP5	All new developments will be connected to reticulated sewer consistent with Master Plan 2014.	JAH EM	Ongoing	Achieved.
Groundwater Abstraction				
GMP6	Water abstraction is to be consistent with the licence issued by the DoW.	JAH EM	Ongoing	Achieved. Abstraction in 2016/17 FY was below allocation.
GMP7	Provide an annual groundwater abstraction report, containing	JAH EM	28 October Annually from	Achieved. 2015/16 Abstraction Report

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
	abstraction volumes obtained from monthly meter readings, to the DoW.		2015.	completed and provided to DoW 19/10/16.
Groundwater Monitoring Program				
GMP8	Undertake groundwater monitoring consistent with Section 5.5 of this GMP.	JAH EM and consultant engaged to undertake the task.	Quarterly for the first two years (from March 2012) and then biannual (or consistent with timing as determined in Section 5.5.6 if applicable).	Monitoring of 11 bores occurs biannually (March and September).
GMP9	Exceedances of criteria interpreted by the consultant as representing potential contamination will be reported to JAH as soon as results become available.	Consultant engaged by JAH EM	Within 72 hours of results becoming available.	Not applicable in 16/17 FY. Whilst there were several instances of the criteria being exceeded, the consultant undertaking the monitoring did not consider these to represent contamination.
GMP10	GME results, in an interim report, will be provided by the consultant to JAH.	Consultant engaged by JAH EM	Within 8 weeks of a GME unless the draft Annual Report, is provided to the JAH Environment Manager within 8 weeks of the final GME of the Financial Year.	Achieved.
GMP11	An updated electronic database containing GME results will be provided by the consultant to JAH.	Consultant engaged by JAH EM	Within 8 weeks of a GME.	Achieved.
GMP12	Prepare an Annual Report, which details the results of monitoring undertaken as described within Section 5.5 of this plan.	Consultant engaged by JAH EM	28 October Annually	Achieved. The 2015/16 Annual Groundwater Monitoring Report was prepared and submitted to DoW & Water Corporation 19/10/16. The Report was a component of the AER submitted to DIRD and DoEE (20/10/16).
GMP13	Seek comment from key	JAH EM	Prior to	Not Applicable in

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
	stakeholders regarding proposed changes in sampling frequency, suite of analytes or assessment levels as detailed in Section 5.5.6.		implementing proposed changes.	16/17 FY. No changes proposed.
GMP14	Undertake an independent audit of the groundwater monitoring program.	JAH EM	Every 5 years (next due by the end of 2017).	Not Due. Will be undertaken in late 2017.
Incidents and Emergencies				
GMP15	Incidents that have the potential to cause environmental harm are recorded in the JAH SMS. (Noting information regarding incidents is often initially reported/recorded in other formats (e.g. email) and relevant information transferred to the SMS at a later date. This does not cause delays in the initial assessment/response of an environmental incident).	All JAH staff, overseen by JAH EM.	ASAP after incident is reported.	Achieved. There were no spills within the P1 JUWPCA in 2016/17. Other incidents and non-conformances within the JUWPCA (see CEMP Tables 5.6, 5.7 & 5.10), as well as spills/incidents occurring elsewhere on the airport during 16/17 FY, are documented in the JAH SMS.
GMP16	Reported incidents that have the potential to cause environmental harm are immediately reviewed by JAH Environmental staff and if required, further investigated and corrective actions assigned if necessary.	JAH EM in collaboration with the contractor/tenant responsible for the incident.	The timing of this action is dependent on the nature of the incident and associated risk (e.g. volume, location, potential impacts etc.).	Achieved.
GMP17	Incident Reporting Requirements are detailed within the Jandakot Airport Tenant Environmental Handbook which is to be made available on the JAH webpage along with an Environmental Incident Report form.	JAH	At all times.	Achieved http://www.jandakotairport.com.au/environment/tenant-resources.html
GMP18	Ensure that all OEMPs and CEMPs include emergency response and incident reporting procedures.	JAH EM	Prior to endorsing any CEMP or OEMP.	Achieved.
Contamination Management				
GMP19	Record all areas of confirmed or suspected contamination on the Environmental Site Register's (ESR) Contaminated Sites Register (CSR).	JAH EM	Whilst the ESR CSR is updated regularly as required, the CSR is to be fully reviewed and updated with all relevant	Achieved. No new sites were added to the Contaminated Sites Register in 16/17 FY.

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
			information by 28 October annually for inclusion within the AER.	
GMP20	Investigate all reported/recorded incidents that have the potential to result in a contaminated site and (if required) determine any sampling, monitoring, remediation and validation requirements (noting in most instances, this action is the same as GMP16).	JAH EM	The timing of this action is dependent on the nature of the incident and associated risk (e.g. volume, location, potential impacts etc.).	Achieved.
GMP21	Develop and implement (as and if required) sampling, monitoring, remediation and validation requirements as identified in above action consistent with the Regulations detailed in Section 5.7.	JAH	The timing of this action is dependent of the outcome of GMP18.	Achieved.
Communication and Awareness				
GMP22	Publish GMP on the JAH website.	JAH EM	Within 1 month of being approved by the Minister.	Achieved. GMP V5.5 approved 14/3/16. Email with screenshot sent to DoEE confirming publication on website 23/3/16. http://www.jandakotairport.com.au/environment/environment-plans.html
GMP23	Update the JAH CEMP and tenant OEMP templates with relevant groundwater management information (only required if information within current CEMP and OEMP templates is not consistent with the current GMP).	JAH EM	Within 3 months of GMP review completion and subsequent endorsement by relevant government regulator.	Not applicable in 2016/17. Content of the CEMP template (V7 May 2017) and OEMP template (V7 April 2017) were reviewed and found to be consistent with the GMP and no further amendments relating to Groundwater were required.
GMP24	Ensure all CEMPs and OEMPs submitted to JAH for review and endorsement adequately addresses Groundwater Management (i.e. groundwater protection and pollution prevention), relevant to the activities proposed to be undertaken.	JAH EM	Prior to endorsing CEMP or OEMP.	Achieved.

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
Reporting Requirements				
GMP25	Report against actions of the GMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE	JAH EM	28 October Annually.	Achieved. The 2015/16 Annual Groundwater Monitoring Report was prepared and submitted to DoW & Water Corp 19/10/16. The Report was a component of the AER submitted to DIRD and DoEE (20/10/16).
GMP26	Distribute Annual Monitoring Report to Key Stakeholders.	JAH EM	28 October Annually.	Achieved. The 2015/16 Annual Groundwater Monitoring Report was prepared and submitted to DoW & Water Corp 19/10/16. The Report was a component of the AER submitted to DIRD and DoEE (20/10/16).
GMP27	Report against actions of the GMP within an Annual Compliance Report (ref Condition 16 of EPBC 2009/4796) and publish on the JAH website.	JAH EM	28 October Annually.	The 2015/16 Annual Compliance Report (against GMP V4) was prepared and published on the JAH website http://www.jandakotairport.com.au/images/files/Environment/EPBC_Compliance_Report_15_16.pdf
Review and Amendment of GMP				
GMP28	Undertake a full comprehensive review and amendment of GMP	JAH EM	By the end of 2018, then every 5 years.	Not Applicable in 16/17 FY

6 CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Table 5 below summarises the 2016/17 status of actions contained within the Construction Environment Management Plan.

The CEMP was implemented by JAH and their contractors in undertaking the below works:

- Clearing and earthworks in Precinct 6/6A (EPBC 2013/7032). Of the 50.1 ha approved for clearing, all but a temporary buffer (approx. 2.65 ha) was cleared in 2015/16. The remaining buffer was cleared in December 2016 - January 2017 and earthworks continued throughout the year. Contractor: Urban Resources. Department of Infrastructure and Regional Developments Works Permit 15/2883:
- Clearing of 12.9 ha in Precinct 3 (Offset Plan Stage 5 south) was undertaken in 2015/16 and associated earthworks continued into 2016/17 (EPBC 2009/4796). Contractor: Urban Resources. Department of Infrastructure and Regional Developments Works Permit 15/2883:
- Clearing of 41 ha (actual bush cleared calculated as 33.1258ha) was completed and earthworks commenced in Precinct 3 (Offset Plan Stage 3 for the extension of Runway 12/30 and the future Fourth Runway) under EPBC 2009/4796. Contractor: Urban Resources. Department of Infrastructure and Regional Developments Works Permit 16/5870.
- Precinct 6 Civil Works (encompassing Precinct 6/6A under EPBC 2013/7032 and Precinct 3 Offset Plan Stage 5 south under EPBC 2009/4796) commenced in November 2016. Contractor: Tracc Civil. Department of Infrastructure and Regional Developments Works Permit 15/2883.

Table 5. Construction Environment Management Plan (V8.2) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
Contractor Details				
CEMP1	Appendix D to be reviewed and endorsed by the JAH EM and DIRD AEO.	JAH EM	Prior to site works commencing.	Achieved. AEO endorsements (following initial JAH EM endorsement) include: <ul style="list-style-type: none"> • 14/8/15 – Precinct 6 Clearing & Earthworks • 7/10/16 – RWY Extension works) • 17/11/16 – Precinct 6 Civil Works.
Stakeholder Consultation				
CEMP2	Report on Stakeholder Consultation within JAH AER.	JAH EM	28 October Annually.	Achieved.
Incidents and Complaints				
CEMP3	Complaints and incidents that have the potential to cause environmental harm are recorded in the JAH SMS. (Noting information regarding incidents is often initially reported/recorded in other formats (e.g. email) and	All JAH staff, overseen by JAH EM.	ASAP after incident is reported.	Achieved. Note that JAH has taken a precautionary approach to incident and SMS reporting. In 2016/17, three entries associated with EPBC-approved actions were made in the

Table 5. Construction Environment Management Plan (V8.2) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
	relevant information transferred to the SMS at a later date. This does not cause delays in the initial assessment/response of an environmental incident). The SMS database report will include details of corrective actions required (and timing that required corrective actions were completed).			JAH SMS. Two non-conformances were recorded (see Tables 5.6 and 5.7 below), neither of which had the potential to result in environmental harm. One incident related to a small infrastructure fire impacting water tanks (specifically the liners) and interconnecting PE pipes. The fire was caused by electrical fusion welding of the pipes. Upon review and investigation, it was determined that no environmental impact had occurred (see Table 5.10).
CEMP4	Complaints and reported incidents that have the potential to cause environmental harm are immediately reviewed by JAH Environmental staff and if required, further investigated and corrective actions assigned if necessary.	JAH EM in collaboration with the Contractor Site Manager responsible for the incident.	The timing of this action is dependent on the nature of the incident and associated risk (e.g. volume, location, potential impacts etc.).	Achieved – see above.
Compliance Audits and Inspections				
CEMP5	Undertake Compliance Audits as directed by the Minister for the Environment pursuant to s 458(1) of the EPBC.	JAH EM	As specified within DoE issued Notice.	Not applicable in 16/17 FY
Reporting Requirements				
CEMP6	Report against actions of the CEMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.	JAH EM	28 October Annually.	Achieved. The 2015/16 AER was submitted to DIRD and DoEE (20/10/16).
CEMP7	Publish an Annual Compliance Report on the JAH website addressing the compliance with each of the conditions of EPBC 2009/4796 which is to include the implementation of the CEMP as required by EPBC 2009/4796 Condition 16.	JAH EM	28 October Annually	The 2015/16 Annual Compliance Report (against CEMP V7) was prepared and published on the JAH website http://www.jandakotairport.com.au/images/files/Environment/EPBC_Compliance_Report_15_16.pdf
Review, Amendment and Publishing of CEMP				
CEMP8	Review and amend CEMP.	JAH EM	As required. No	Not applicable in 16/17

Table 5. Construction Environment Management Plan (V8.2) Summary of Actions.				
Action		Responsibility	Timing	2016/17 Action Status
			defined timeframe required unless specified by DoE in relation to Condition 11 of EPBC 2009/4796 and/or Condition 8 of EPBC 2013/7032.	FY
CEMP9	Ensure amended CEMP is distributed to relevant contractors.	JAH EM	Within 30 days of DoE approval.	Not applicable in 2016/17 – no amendments made.
CEMP10	Publish amended approved CEMP on the JAH website.	JAH EM	Within 30 days of DoE approval.	Not applicable in 2016/17 – no amendments made.
CEMP11	Retain published version of CEMP on the JAH Website.	JAH EM	Ongoing - for the duration of the Action (i.e. clearing and civil works as defined under EPBC 2009/4796 and EPBC 2013/7032)	Achieved. The approved CEMP is published on the JAH website. http://www.jandakotairport.com.au/environment/environment-plans.html

Tables 5.1 – 5.11 below detail the various CEMP Management Plans (refer to CEMP V8.2 Section 5) and the 2016/17 status against the elements/actions/monitoring/reporting/performance indicators.

Table 5.1 Training and Inductions				2016/17 Status
Element	Training and Induction Management			
Performance Objectives	<ul style="list-style-type: none"> All personnel (i.e. JAH staff and contractors) accessing the work site are inducted in the CEMP and their responsibilities in working in accordance with the CEMP prior to commencing work on site. Personnel are aware of who holds responsibility for environmental management at the site. Contractors are provided with training, where training requirements beyond the scope of the induction are identified as necessary to implement work in accordance with the requirements of the CEMP. 			Achieved.
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Planning	Develop a site Induction that addresses relevant sections of the CEMP and submit to the JAH EM for review and endorsement. This induction must contain content about the requirement to protect priority and threatened species in accordance with legislation.	Contractor Site Manager	Prior to Construction.	Achieved.
Record of CEMP site induction	Create an Site Induction Register	Contractor Site Manager	Prior to Construction.	Achieved.
Site induction to CEMP	Induct any new contractor personnel (including JAH staff that are required to access the construction area) and record on the Site Induction Register.	Contractor Site Manager	Throughout construction – prior to personnel commencing unsupervised work on site.	Achieved.
Training	Assess the ability of each new member of personnel to carry out requirements of CEMP based on their understanding of the environmental risks associated with their work tasks, and create a record of any ensuing training requirements on the Contractor's Training Register.	Contractor Site Manager	Throughout construction – prior to personnel commencing unsupervised work on site.	Achieved. Apart from Inductions, no additional training requirements have been identified to date.
Training	Undertake training, as identified on the training register, and create a record of training completed.	Contractor Site Manager	Timing to be determined by the Site Manager when the training requirement is identified and entered on the Training Register.	Achieved. Apart from Inductions, no additional training requirements have been identified to date.

Table 5.1 Training and Inductions				2016/17 Status
Inductions	Any JAH staff or JAH engaged contractors/consultants needing to access the site that do not fall under the responsibility/management of the Contractor(s) engaged to undertake clearing and civil works will be inducted (specifically in relation to the requirements of the CEMP) by JAH. This induction must contain content about the requirement to protect priority and threatened species in accordance with legislation.	JAH EM	Throughout construction – prior to personnel commencing unsupervised work on site.	All personnel accessing the site have completed the Contractor's Induction.
Monitoring				
Monthly (Documented)	Environmental Checklists completed.	Contractor Site Manager	Monthly throughout construction.	Achieved.
Reporting to JAH				
	Environmental Checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved.
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No Incidents or complaints associated with training and inductions in 16/17 FY. Incidents & non-conformances associated with other specific aspects of the CEMP are addressed in tables below (see 5.6, 5.7 and 5.10).
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
Inductions completed and recorded for all contractor personnel working on site.	Contractor personnel identified working on site that have not been inducted or have not had their induction recorded.	<ol style="list-style-type: none"> Contractor Site Manager to instruct identified personnel to cease work and undertake a documented induction. Contractor Site Manager to record event as non-conformance in Monthly Checklist. 		Performance Indicator met 16/17 FY.
Relevant training	Contractor personnel identified	1. Contractor Site Manager to instruct identified personnel to cease work on		Performance Indicator

Table 5.1 Training and Inductions			2016/17 Status
completed and recorded for all contractor personnel working on site.	on site undertaking tasks for which they have not been trained or their training has not been recorded.	<p>specified task(s) and retrain as required.</p> <ol style="list-style-type: none"> 2. Contractor Site Manager to record event as non-conformance in Monthly Checklist. 	met 16/17 FY.
Staff undertake tasks consistent with CEMP.	Staff observed or recorded undertaking tasks in a manner contrary to that documented in CEMP.	<ol style="list-style-type: none"> 1. Contractor Site Manager to confer with personnel regarding breach of procedure. 2. Contractor Site Manager to record event as (a) an Environment Incident Report if task results (or is likely to result in) environmental harm or (b) a non-conformance in Monthly Checklist – whichever is applicable. 3. Contractor Site Manager to re-induct personnel in that area of CEMP and assess the need for retaining. 	It could be interpreted that non-conformances detailed in Tables 5.6 and 5.7 are as a result of contractor staff not undertaking tasks consistent with the CEMP.
No more than one Incident or non-conformance associated with above PIs reported to JAH within a single reporting (monthly Period).	Multiple incidents or non-conformances associated with above triggers reported to JAH within a single reporting (monthly) period.	<ol style="list-style-type: none"> 1. JAH EM to follow up with Contractor Site Manager and review training and Induction processes to identify potential improvements to be subsequently implemented. 	Performance Indicator met 16/17 FY. Only 3 incidents/non-conformances were reported in 2016/17: 1 in July 2016 1 in March 2017 1 in June 2017.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.			

Table 5.2 Noise and Vibration Management Plan				2016/17 Status
Element	Noise and Vibration Management			
Performance Objectives	To mitigate impacts of noise and vibration generated as a result of works activities.			Achieved
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Planning	Identify location of nearest potential sensitive receptors to noise/vibration impacts.	Contractor Site Manager	Prior to construction.	Achieved
Planning	Neighbouring residents will be notified in writing prior to construction occurring detailing works being undertaken, indicative timing of works and a point of contact for all queries and complaints.	Contractor Site Manager assisted by JAH EM	Prior to construction.	Achieved for each contract
Planning	Where compaction activities are considered to have the potential to impact off-site structures (as determined by the Site Contractor), dilapidation reports will be completed.	Contractor Site Manager	Prior to compaction occurring in areas where potential impacts can occur.	Achieved
Construction Program	Construction will occur during the hours of 7am – 7pm Monday- Saturday. (Note: Material and personnel transport to and from site may occur outside of these hours).	Contractor Site Manager	Throughout construction.	Achieved
Vibration	Compaction activities that have the potential to impact external stakeholders will consider (and apply as necessary) mitigation methods including: <ul style="list-style-type: none"> • Static rolling • Oscillating compaction systems • Reduced amplitude settings 	Contractor Site Manager	Throughout construction.	Achieved
Plant, Equipment & Vehicles	Maintain and service plant, equipment and vehicles used during works regularly to ensure that noise levels associated with construction are as low as can be reasonably achieved. Records are to be retained by the contractor and made available to JAH upon request.	Contractor Site Manager	Throughout construction.	Achieved
Plant, Equipment & Vehicles	Silencing devices or noise reducing barriers installed on appropriate equipment.	Contractor Site Manager	Throughout construction.	Achieved
Monitoring				
Monthly (Documented)	Environmental Checklist completed.	Contractor Site Manager	Monthly throughout construction.	Achieved

Table 5.2 Noise and Vibration Management Plan				2016/17 Status
Dedicated Noise Monitoring Equipment	Where there is the potential for noise/vibration to affect external stakeholders, the use of monitoring equipment will be considered. Based on previous stages of development, noise/vibration monitoring is unlikely to be warranted. If monitoring is required, it will likely be the result of an action arising from a noise/vibration incident or complaint.	Contractor Site Manager	If required, timing to be determined following complaint/incident investigation.	Not Applicable 16/17 FY.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction	Achieved
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No incidents or complaints regarding noise & vibration in 16/17 FY.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No noise/vibration complaints received.	Receipt of noise/vibration complaint.	<ol style="list-style-type: none"> JAH EM to consult immediately with Contractor Site Manager regarding noise/vibration management. Contractor Site Manager to arrange for action to be taken to alleviate the problem. Contractor Site Manager to record the event as an Environment Incident Report. JAH EM to undertake a follow-up check within 24 hours, including liaising with complainant (unless Contractor Site Manager advises they will liaise with the complainant directly). 		Performance Indicator met 16/17 FY.
No repeated and/or unresolved noise or vibration complaints relating to a specific activity or work area.	Repeated and/or unresolved noise or vibration complaints relating to a specific activity or work area.	<ol style="list-style-type: none"> JAH EM to consult with Contractor Site Manager regarding unresolved noise/vibration management and review adequacy of mitigation actions taken to date. Contractor Site Manager to arrange for action to be taken to alleviate the problem. JAH EM to undertake a follow-up check within 24 hours, including liaising with complainant(s) (unless Contractor Site Manager advises they will liaise with the complainant(s) directly). Where the impact of noise remains unresolved or is disputed between the Contractor Site Manager and the complainant(s), the DIRD AEO will be consulted to determine if all practical and reasonable 		Performance Indicator met 16/17 FY.

Table 5.2 Noise and Vibration Management Plan			2016/17 Status
		<p>measures have been taken to mitigate noise impacts and if measured noise monitoring is required at the surrounding sensitive receptor site(s), utilising 75 dB (A) LA_{eq} as the applicable trigger.</p> <p>5. Contractor Site Manager to report noise monitoring results to JAH EM.</p>	
<p>Measured noise monitoring confirms noise levels do not exceed 75 dB (A) LA_{eq} at surrounding sensitive receptors.</p>	<p>Measured noise monitoring confirms noise levels exceeding 75 dB (A) LA_{eq} at surrounding sensitive receptors.</p>	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding noise/vibration management. 2. JAH EM and Contractor Site Manager to consult with DIRD AEO to determine if all practical and reasonable measures have been taken to mitigate noise impacts (noting the AEO may request additional mitigation measures be implemented to further alleviate the impacts of noise at surrounding sensitive receptor site and/or additional monitoring be undertaken). 3. JAH EM to undertake a follow-up check within 24 hours, including liaising with complainant(s) (unless Contractor Site Manager advises they will liaise with the complainant(s) directly). 	<p>Not Applicable 16/17 FY.</p>
<p>*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.</p>			

Table 5.3 Air Quality & Dust Management Plan				2016/17 Status
Element	Air Quality & Dust Management			
Performance Objectives	To minimise (and where possible prevent) dust and particulate matter impacts beyond the construction site boundary.			Achieved
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Planning	Identify location of nearest potential sensitive receptors to air quality impacts (e.g. residential properties, aircraft movement areas, neighbouring tenants etc.).	Contractor Site Manager	Prior to construction.	Achieved
Planning	Erect a notice at the site entrance identifying the contractor and contact details of a point of contact for works.	Contractor Site Manager	Throughout construction.	Achieved
Dust Suppression	During activities that have the potential to generate dust, suitable water carts (the number and capacity commensurate to the disturbed area) will be available on site or at an off-site location where they can reach the site in one hour or less.	Contractor Site Manager	Throughout construction.	Achieved
Dust Suppression	Suppress dust using non-potable water (e.g. water carts) where it is determined to potentially or actually reach nuisance levels / pass the boundary of the construction site. Note in instances where potable water is not accessible/available or is not suitable for specialised tasks/equipment, permission can be sought from the JAH EM to temporarily access metered potable water.	Contractor Site Manager	Throughout construction.	Achieved (non-potable water from groundwater bore utilised).
Dust Prevention	Observe weather conditions and keep dust-generating activities to a minimum during dry and windy conditions. Cease all works that have the potential to generate dust in excessively windy conditions and/or use methods (e.g. water carts) to suppress the dust.	Contractor Site Manager	Throughout construction.	Achieved
Dust/Erosion Prevention	Position stockpiles in locations that will minimise impacts on sensitive receptors, taking prevailing winds conditions into consideration.	Contractor Site Manager	Throughout construction.	Achieved
Dust/Erosion Prevention	Stabilise large unprotected surfaces (including stockpiles) in windy weather where off site impacts can be anticipated (e.g. use of water/water carts, soil binders, dust retardants etc.).	Contractor Site Manager	Throughout construction.	Achieved primarily through water and Dustex/Dustac.
Dust/Erosion Prevention	Stabilise tracks subjected to large numbers of vehicle movements (e.g. use of compacted limestone or gravel, soil binders, dust retardants etc.).	Contractor Site Manager	Throughout construction.	Achieved
Dust/Erosion Prevention	Restrict construction traffic to designated areas/ roads/tracks, avoiding areas adjacent to sensitive receptors wherever possible.	Contractor Site Manager	Throughout construction.	Achieved
Transport/Erosion Prevention	Keep impacted public roads (e.g. entry and exit points, adjacent roads etc.) free of potentially dangerous levels of dust and wind-blown sand by undertaking road sweeping as required.	Contractor Site Manager	Throughout construction.	Achieved
Transport	If required (as an alternative to regular road sweeping), install a wheel wash at	Contractor Site	Throughout	Not Applicable 16/17 FY.

Table 5.3 Air Quality & Dust Management Plan				2016/17 Status
	exit points to minimise dust impacts on public roads.	Manager	construction.	
Transport	All soil/fill will be covered during transport.	Contractor Site Manager	Throughout construction.	Achieved
Movement of dust off site/Erosion Prevention	Use dust barriers (e.g. wind fence, shade cloth etc.) to limit transport of dust off work areas to minimise impacts on neighbouring sensitive receptors such as residential areas. An appropriate length of wind fencing (for new requirements or repairs of existing wind fencing) must be stored on site or available within 1 hour of being required. Where potential impacts are reasonably anticipated, dust barriers are to be installed prior to the dust generating activity commencing.	Contractor Site Manager	Throughout construction.	Achieved. Vegetation strips retained for as long as possible in P6. Shade cloth installed on boundary fences adjoining residential properties.
Plant, Equipment & Vehicles	Maintain and service plant, equipment and vehicles used during works regularly to demonstrate equipment is running efficiently and fumes are minimised. Records are to be retained by the contractor and made available to JAH upon request.	Contractor Site Manager	Throughout construction.	Achieved
Dust/Erosion Prevention	Ensure areas cleared, levelled and ready for lot level construction are stabilised (e.g. seeding with a soil stabilising species, soil binders, dust retardants etc.).	Contractor Site Manager in consultation with JAH EM	Once all construction activities within a lot have been completed.	Achieved. P6/6A progressively seeded. Not Applicable 16/17 FY for Precinct 3 RWY extension works.
Monitoring				
Monthly (Documented)	Environmental Checklist completed.	Contractor Site Manager	Monthly throughout construction.	Achieved
Daily (Visual)	Ongoing visual assessment of air quality impacts and the effectiveness of mitigation measures (not documented).	Contractor Site Manager	Daily throughout construction.	Achieved
Dedicated Dust/Air Quality Monitoring Equipment	Where there is the potential for air quality to affect external stakeholders, the use of monitoring equipment will be considered (noting the AEO or JAH EM may instruct the contractor to undertake measures air quality monitoring in response to a complaint/incident). Based on previous stages of development, measured air quality monitoring is unlikely to be warranted. If monitoring is required, it will likely be the result of an action arising from an air quality incident or complaint.	Contractor Site Manager	If required, timing to be determined following complaint/incident investigation.	Not Applicable 16/17 FY.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No incidents or complaints relating to air quality/dust in 16/17 FY.

Table 5.3 Air Quality & Dust Management Plan			2016/17 Status
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*	
No air quality complaints received.	Receipt of Air Quality complaint.	<ol style="list-style-type: none"> 1. JAH EM to consult immediately with Contractor Site Manager regarding air quality management. 2. Contractor Site Manager to record the event as an Environment Incident Report and arrange for action to be taken to alleviate the problem (noting actions to alleviate the problem are anticipated to be one or more of the mitigation measures listed above). 3. JAH EM to undertake a follow-up check within 24 hours, including liaising with complainant (unless Contractor Site Manager advises they will liaise with the complainant directly). 	Performance Indicator met 16/17 FY.
No repeated and/or unresolved air quality complaints relating to a specific activity or work area.	Repeated and/or unresolved air quality complaints relating to a specific activity or work area.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding unresolved air quality management and review adequacy of mitigation actions taken to date. 2. Contractor Site Manager to record the event as an Environment Incident Report and arrange for action to be taken to alleviate the problem. 3. JAH EM to undertake a follow-up check within 24 hours, including liaising with complainant(s) (unless Contractor Site Manager advises they will liaise with the complainant(s) directly). 4. Where the impact of is disputed between the Site Contract Manager and the complainant(s) (or the JAH EM or AEO suspects impacts trigger regulatory requirements), measured monitoring (consistent with National Air Quality Standards) will be undertaken by the contractor to confirm whether levels are acceptable at surrounding sensitive receptors. Contractor Site Manager to report dust monitoring results to JAH EM. 	Performance Indicator met 16/17 FY.
Measured air quality monitoring confirms levels are within acceptable limits at surrounding sensitive receptors.	Measured air quality monitoring confirms levels are above acceptable limits at surrounding sensitive receptors.	<ol style="list-style-type: none"> 1. JAH EM to consult immediately with Contractor Site Manager regarding air quality management. 2. Contractor Site Manager to arrange for action to be taken to alleviate the problem and confirm via monitoring that air quality levels do not exceed acceptable limits at surrounding sensitive receptors. 3. JAH EM to undertake a follow-up check within 24 hours, including liaising with complainant(s) (unless Contractor Site Manager advises they will liaise with the complainant(s) directly). 	Not Applicable 16/17 FY.

Table 5.3 Air Quality & Dust Management Plan			2016/17 Status
No incidents of visible dust emissions.	**Incidents of visible dust emissions	<ol style="list-style-type: none"> 1. Contractor Site Manager to halt dust-emitting activity on identifying occurrence of highly visible or excessive emissions of dust. 2. Contractor Site Manager to arrange for action to be taken to alleviate the problem. 3. JAH EM to undertake a follow-up check to observe effectiveness of new dust control measures implemented if the trigger is the result of a reportable environmental incident**. 	Not Applicable 16/17 FY. No complaints or observations of dust causing an impact beyond the construction site boundary.
No visible vehicle emissions observed to be emitted for a period of ten seconds or more.	Visible vehicle emissions observed to be emitted for a period of ten seconds or more.	<ol style="list-style-type: none"> 1. Contractor Site Manager to stop machinery responsible for excessive vehicle emissions. 2. Contractor Site Manager to arrange for action to be taken to alleviate the problem. 3. Contractor Site Manager to record event as non-conformance in Monthly Checklist. 4. JAH EM to undertake a follow-up check within one week. 	Achieved.
No excessive dust accumulated on native vegetation.	Excessive dust accumulated on native vegetation.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding dust accumulation on native vegetation. 2. Contractor Site Manager to arrange for action to be taken to alleviate the problem. 3. JAH EM to undertake a follow-up check within one week. 	Achieved.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.			
**Dust/wind-blown sand emissions are reasonably expected to occur throughout construction. Dust emissions, whilst required to be controlled/contained, are only considered to be a reportable environmental incident if they generate a complaint or the dust is observed to be causing an impact beyond the construction site boundary.			

Table 5.4 Erosion and Sediment Control Management Plan				2016/17 Status
Element	Erosion and Sediment Control Management			
Performance Objectives	To mitigate the potential for erosion and sedimentation to occur as a result on clearing and construction activities.			Achieved
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Sediment Control Fences	Construct fence along downstream edge of exposed construction areas and at the base of fill embankments, where risk of erosion is high.	Contractor Site Manager	Prior to commencing works.	Not Applicable 16/17 FY.
Catch Drains	Construct catch drains to collect sediment-laden runoff along downstream boundary of construction activities, where risk of sediment-laden runoff being generated is high.	Contractor Site Manager	Throughout construction.	Not Applicable 16/17 FY.
Sand Bags	Place sand bags along catch drains to slow flow and capture coarse sediment, where required.	Contractor Site Manager	Throughout construction.	Not Applicable 16/17 FY.
Stockpiles	Position stockpiles in locations that will minimize impacts on sensitive receptors, taking prevailing winds conditions into consideration.	Contractor Site Manager	Throughout construction.	Achieved.
Monitoring				
Monthly (Documented)	Environmental Checklist completed	Contractor Site Manager	Monthly throughout construction.	Achieved.
Daily (Visual)	Where sediment control measures are in place, they will be visually inspected daily to ensure they are in sound condition and working effectively.	Daily	Throughout construction.	Not Applicable 16/17 FY.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved.
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No incidents or complaints related to erosion and sediment control in 16/17 FY.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No erosion observed.	Erosion observed.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding erosion of exposed surfaces. 2. Contractor Site Manager to arrange for surfaces to be stabilised. 3. JAH EM to undertake a follow-up check after one week. 		Performance Indicator met 16/17 FY.

Table 5.4 Erosion and Sediment Control Management Plan			2016/17 Status
No runoff observed moving offsite containing sediment or reported in incident report form.	Runoff observed moving offsite containing sediment or reported in incident report form.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding movement of sediment-laden runoff. 2. Contractor Site Manager to arrange for control of surface runoff and prevent release of sediment. 3. Contractor Site Manager to record event as non-conformance in Monthly Checklist. 4. JAH EM to undertake a follow-up check after one week. 	Performance Indicator met 16/17 FY.
Runoff not exceeding capacity of catch drains.	Runoff exceeding capacity of catch drains.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager to reassess constructed capacity of catch drains and revise volume requirements. 2. Contractor Site Manager to arrange for holding capacity of catch drains to be adjusted to accommodate actual volumes of flow. 3. Contractor Site Manager to record event as non-conformance in Monthly Checklist. 4. JAH EM to undertake a follow-up check after one week. 	Performance Indicator met 16/17 FY.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.			

Table 5.5 Water Quality Management Plan				2016/17 Status
Element	Water Quality Management			
Performance Objectives	To minimise impacts on water quality resulting from construction.			Achieved
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Planning	Identify locations of groundwater abstraction and monitoring infrastructure and prevent damage during construction with the use of fencing or barriers.	Contractor Site Manager	Prior to construction.	Achieved
Planning	Establish the extent/boundaries of the JUWPCA (i.e. P1 Source Protection Area) in relation to the area of clearing/construction.	Contractor Site Manager	Prior to construction.	Achieved
Planning	Identify approved sources of non-potable water (e.g. groundwater abstraction bores) for use during construction.	Contractor Site Manager	Prior to construction.	Achieved. Bore 15 and turkey nest in Precinct 6.
Dewatering	Any dewatering/excavation below groundwater levels will be consistent with the Groundwater Management Plan for investigation and, if required, management of acid sulphate soils.	Contractor Site Manager	Throughout Construction. Refer to Groundwater Management Plan for specific requirements.	Achieved. Acid sulfate soil (ASS) investigation undertaken and management plan developed and implemented for new Precinct 6 sewer works.
Monitoring				
Monthly (Documented)	Environmental Checklist completed.	Contractor Site Manager	Monthly throughout construction.	Achieved
Daily (Visual)	Implementation of groundwater monitoring program consistent with the Groundwater Management Plan.	JAH EM	As detailed within Groundwater Management Plan.	Achieved. Refer Table 4.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved.
	The reports of any required ASS Investigations undertaken.	Contractor Site Manager	Upon completion of any ASS investigation undertaken.	Achieved.
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No incidents or complaints relating to water quality management in 16/17 FY.

	The reports of any monitoring undertaken as required by ASS/Dewatering Management Plans.	Contractor Site Manager	Consistent with ASS/Dewatering Management Plan.	Achieved.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No contamination detected in groundwater monitoring.	Groundwater quality monitoring detects contamination.	Investigation and (if required) remediation will be consistent with the Jandakot Airport Groundwater Management Plan.		Performance Indicator met 16/17 FY.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.				

Table 5.6 Waste Management Plan				2016/17 Status
Element	Waste Management			
Performance Objectives	To minimise, as far as reasonably practicable, the potential for adverse environmental impact due to handling, storage or disposal of wastes.			Achieved.
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Storage Location	Designate waste storage areas for each waste stream.	Contractor Site Manager	Prior to construction.	Achieved with the exception of one non-conformance detailed below (see performance indicator).
Hazardous Waste	Establish a suitable location for storage of hazardous waste outside the JUWPCA and drainage lines. If a location outside of the JUWPCA is not practicably possible, the designated storage location must be approved by the JAH EM (noting the JAH EM may approve waste storage within JUWPCA boundaries subject to conditions such as imposing maximum permissible waste volumes, specifying secondary containment requirements etc.).	Contractor Site Manager	Prior to construction.	Achieved.
Waste Segregation	Separate waste into different streams (for example inert, recyclable, domestic [putrescible], contaminated, liquid, hazardous).	Contractor Site Manager	Throughout construction.	Achieved.
Storage Method (domestic waste)	Store all domestic (putrescible) waste in lidded bins located in designated storage area.	Contractor Site Manager	Throughout construction.	Achieved.
Storage Method (loose/inert waste)	Secure loose/inert waste, in designated storage area.	Contractor Site Manager	Throughout construction.	Achieved.
Storage Method (liquid waste)	Contain all liquid waste in appropriate containers, in designated liquid waste disposal storage area.	Contractor Site Manager	Throughout construction.	Achieved.
Hazardous Waste Disposal	Handle and transport waste off site in appropriate containers with necessary placarding for dangerous goods or hazardous materials.	Contractor Site Manager	Throughout construction.	Achieved.
Hazardous Waste Disposal	Waste dockets to be retained on site for transport/disposal of controlled wastes (<i>Environmental Protection (Controlled Waste) Regulations 2004</i>).	Contractor Site Manager	Throughout construction.	Achieved.
Disposal	Collect and transport waste to appropriately-licensed disposal facility when (or before) storage containers reach capacity.	Contractor Site Manager	Throughout construction.	Achieved.
Reuse	Prioritise reuse of dieback-free topsoil in rehabilitation works (off-site via DPaW, or on-site) and landscaping requirements.	Contractor Site Manager in	During operations.	Topsoil not required by DBCA/DPaW. Topsoil

Table 5.6 Waste Management Plan				2016/17 Status
		consultation with JAH EM		provided for an offsite Department of Planning rehabilitation project at Harrisdale. Sufficient topsoil stockpiled for Jandakot Airport landscaping requirements. Excess topsoil screened/blended and used onsite as fill.
Reuse	Reuse mulched vegetation (excluding dieback infested vegetation) in landscaping.	Contractor Site Manager in consultation with JAH EM	Throughout construction.	Achieved. Cleared vegetation stockpiled awaiting mulching.
Storage	Remove all waste from site.	Contractor Site Manager	Within 1 month of completion of construction.	Not Applicable 16/17 FY.
Monitoring				
Monthly (Documented)	Environmental Checklist completed.	Contractor Site Manager	Monthly throughout construction	Achieved.
Weekly (Visual)	Weekly visual inspection of waste storage areas to ensure appropriate management (not documented).	Contractor Site Manager	Monthly throughout construction	Achieved.
Weekly (Visual)	Weekly visual inspection for wind-blown waste/litter on site boundary and internal fence lines.	Contractor Site Manager	Monthly throughout construction	Achieved.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction	Achieved.
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No waste management incidents or complaints 16/17 FY. There was one non-conformance raised by JAH EM relating to location of inert waste as detailed

Table 5.6 Waste Management Plan				2016/17 Status
				below (see performance indicator).
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No windblown waste observed on fence lines or in work areas.	Windblown waste observed on fence lines or in working areas.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding waste disposal and storage. 2. Contractor Site Manager to arrange for waste to be collected and securely disposed (noting where the aircraft safety is potentially impacted, this must occur immediately). 3. Contractor Site Manager to record event as (a) an Environment Incident Report if aircraft safety is potentially impacted or (b) a non-conformance in Monthly Checklist – whichever is applicable. 4. JAH EM to undertake a follow-up check after one week (or within 24 hours if aircraft safety was potentially impacted). 		Performance Indicator met 16/17 FY.
Wastes stockpiled within JUWPCA have, and are consistent with, JAH EM's approval.	Waste stockpiled within JUWPCA P1 Area without JAH EM approval or in a manner not consistent with JAH EM's initial approval.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding waste storage within JUWPCA. 2. Contractor Site Manager to arrange for waste to be moved to designated storage area outside JUWPCA. 3. Contractor Site Manager to record event as (a) an Environment Incident Report if waste involved hazardous/potentially polluting substances or (b) a non-conformance in Monthly Checklist – whichever is applicable. 4. JAH EM to undertake a follow-up check after one week (or 24 hours if wastes are hazardous/potentially polluting substances). 		<p>One non-conformance was reported, associated with Precinct 6 civil works contractor storing inert construction waste within the JUWPCA boundary in a location that was not consistent with the JAH-approved Site Plan. The issue was noted during a JAH/DIRD AEO site inspection. The Site Manager was notified by the JAH EM and the matter was promptly rectified.</p> <p>Note: As wastes were not potentially polluting the matter was</p>

Table 5.6 Waste Management Plan			2016/17 Status
			addressed as a non-conformance rather than an incident.
Wastes are separated into different streams.	Mixed waste prevents recycling or appropriate disposal.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding streams of waste being mixed, preventing recycling or appropriate disposal. 2. Contractor Site Manager to arrange for waste to be separated into streams. 3. Contractor Site Manager to record event as non-conformance in Monthly Checklist. 4. JAH EM to undertake a follow-up check after one week. 	Performance Indicator met 16/17 FY.
No rodents, vermin, scavenging birds or other pests observed on site.	Rodents, vermin, scavenging birds or other pests observed on site.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding storage of domestic (putrescible) waste. 2. Contractor Site manager to arrange for waste storage containers to prevent access to rodents, and enforce waste collection and disposal measures. 3. Contractor Site Manager to record event as non-conformance in Monthly Checklist. 4. JAH EM to undertake a follow-up check after one week. 	Performance Indicator met 16/17 FY.
Storage, transport and disposal of Controlled Wastes (Including Hazardous Wastes) is consistent with regulatory requirements.	Monitoring identifies storage, transport or disposal of Controlled Wastes (Including Hazardous Wastes) in a manner not consistent with regulatory requirements.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding controlled wastes. 2. Contractor Site Manager to arrange for action to be taken to rectify the issue. 3. Contractor Site Manager to record event as an Environment Incident. 4. JAH EM to undertake a follow-up check after one week. 	Performance Indicator met 16/17 FY.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.			

Table 5.7 Hazardous Materials Management Plan				2016/17 Status
Element	Hazardous Materials Management			
Performance Objectives	To minimise, as far as reasonably practicable, the potential for adverse environmental impact due to handling or storage of hazardous goods.			Achieved.
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Spill control plan	Provide a contractor spill control plan to JAH EM.	Contractor Site Manager	Prior to construction.	Achieved.
Planning	Establish the extent/boundaries of the JUWPCA (i.e. P1 Source Protection Area) in relation to the area of clearing/construction.	Contractor Site Manager	Prior to construction.	Achieved.
Spill kit	Ensure fully stocked spill kit available on refuelling truck(s) and (if applicable) in the vicinity of hazardous material storage area(s).	Contractor Site Manager	Throughout construction.	Achieved.
Storage location during construction	Provide bunded storage area outside the JUWPCA and drainage lines. If a location outside of the JUWPCA is not practicably possible, the designated storage location must be approved by the JAH Environment Manager (noting the JAH EM may approve waste storage within JUWPCA boundaries subject to conditions such as imposing maximum permissible volume limits, specifying secondary containment requirements etc.).	Contractor Site Manager	Prior to construction.	There was one potential non-conformance raised by JAH EM relating to temporary storage as detailed below (see performance indicator).
Hazardous Materials Register & MSDS	Establish a register of hazardous materials & dangerous goods (including potentially polluting substances) for use on site and ensure current MSDS is held onsite.	Contractor Site Manager	Throughout construction.	Achieved.
Refuelling area	Designate appropriate refuelling area(s) outside the JUWPCA and drainage lines. If a location outside of the JUWPCA is not practicably possible, the designated refuelling area will be approved by the JAH EM.	Contractor Site Manager	Prior to construction.	Achieved.
Mobile refuelling	Refuel within designated refuelling area(s) only.	Contractor Site Manager	Throughout construction.	Achieved.
Minor machinery maintenance	Restrict onsite machinery maintenance to minor/emergency maintenance undertaken only within hardstand area designated suitable by JAH EM.	Contractor Site Manager	Throughout construction.	Achieved.
Leakage or spills	Clean up all leaks and spills in accordance with the contractor spill control plan.	Contractor Site Manager	Throughout construction.	Not Applicable 16/17 FY
Containers	Containers holding hazardous substances will be labelled and stored upright with lids closed on bunds in designated areas when not in use.	Contractor Site Manager	Throughout construction.	Achieved.
Hazardous waste disposal	Collect and transport waste to appropriately licenced disposal operation when (or before) storage containers reach capacity. Waste dockets to be retained on	Contractor Site Manager	Throughout construction.	Achieved.

Table 5.7 Hazardous Materials Management Plan				2016/17 Status
	site consistent with controlled wastes (<i>Environmental Protection (Controlled Waste) Regulations 2004</i>).			
Storage	Remove all hazardous materials and dangerous goods.	Contractor Site Manager	Within 1 month of completion of construction.	Not Applicable 16/17 FY
Monitoring				
Monthly (Documented)	Environmental Checklist completed.	Contractor Site Manager	Monthly throughout construction.	Achieved.
Weekly (Visual)	Weekly visual inspection of all hazardous material storage areas and practices to ensure appropriate management (not documented).	Contractor Site Manager	Weekly throughout construction.	Achieved.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved.
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No incidents or complaints regarding hazardous materials management in 16/17 FY. There was one potential non-conformance raised by JAH EM relating to temporary storage as detailed below (see performance indicator).
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
Dangerous goods stored in accordance with MSDS, codes or standards.	Dangerous goods not stored in accordance with MSDS, codes or standards.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding hazardous materials storage. 2. Contractor Site Manager arrange for materials to be stored in accordance with MSDS. 3. Contractor Site Manager to record event as an Environment Incident Report. 4. JAH EM to undertake a follow-up check after one week. 		Performance Indicator met 16/17 FY.
Dangerous goods or hazardous materials	Dangerous goods or hazardous materials stored outside designated	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding hazardous materials storage. 		One potential non-conformance was noted in

Table 5.7 Hazardous Materials Management Plan			2016/17 Status
stored in designated storage location.	storage location.	<ol style="list-style-type: none"> 2. Contractor site manager have hazardous materials moved to appropriate storage location. 3. Contractor Site Manager to record event as an Environment Incident Report. 4. JAH EM to undertake a follow-up check after one week. 	<p>16/17 FY. During a site inspection by JAH EM and DIRD AEO 1/7/16, the self-bunded fuel pod used for on-site refueling of non-mobile plant was observed unattended next to the screening plant. It had not been immediately returned to the designated/approved storage area within the site compound (although it had been returned, unprompted, several hours later when the JAH EM contacted the Acting Site Manager to discuss the matter). During follow-up Site meeting 4/7/16 the JAH EM and the contractor's management team reviewed procedures. No further instances of perceived 'temporary storage' outside of the designated area have been observed. The matter was agreed to be procedural as the risk of leaks/spill from the self bunded fuel pod is considered negligible.</p>
No spills/ leaks observed /reported.	Spills or leaks observed /reported.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding observation of spill or leak. 2. Contractor Site Manager to arrange to have vertical and horizontal extent of spill or leak delineated and documented. 3. Contractor Site Manager to record event as an Environment 	Performance Indicator met 16/17 FY.

Table 5.7 Hazardous Materials Management Plan			2016/17 Status
		Incident Report. 4. Contractor Site Manager to arrange for clean-up of spilled material and provide evidence of validation to JAH EM.	
Waste stored in appropriate containers and removed once containers at capacity.	Waste stored in inappropriate containers or not removed once containers at capacity.	1. JAH EM to consult with Contractor Site Manager regarding storage of hazardous waste. 2. Contractor Site Manager to arrange to have waste removed from site. 3. Contractor Site Manager to record event as an Environment Incident Report. 4. JAH EM to undertake a follow-up check after one week.	Performance Indicator met 16/17 FY.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.			

Table 5.8 Flora and Fauna Management Plan				2015/16 Status
Element	Flora and Fauna Management			
Performance Objectives	To mitigate the loss of priority species during construction and protect neighbouring Conservation Precincts.			Achieved.
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Flora Relocation	If rare flora (i.e. <i>Caladenia huegelii</i>) are present within the area to be cleared, undertake a plant salvage program in conjunction with flora experts (noting <u>no</u> rare flora have been identified within the remaining bushland areas proposed to be cleared).	JAH EM	Prior to clearing.	Not Applicable 16/17 FY. No rare flora present.
Clearing	The total area of vegetation to be cleared will be surveyed / measured to confirm the total area is within the limit approved under EPBC conditions of approval.	Contractor Site Manager	Prior to clearing.	Achieved.
Fencing	Demarcate designated areas for work with an appropriate barrier (e.g. steel stake and single strand wire) around the perimeter.	Contractor Site Manager	Prior to construction.	Achieved. Majority of site demarcated by existing fences. Areas without existing fences were surveyed, pegged and site wire fencing installed.
Fencing	Where work areas are adjacent to Conservation Precincts, the Conservation Precinct boundary will be located via survey, pegged and identified with an appropriate barrier (e.g. steel stakes and single strand wire).	Contractor Site Manager	Prior to construction.	Achieved. In 16/17 FY precinct 2B/3 and Precinct 2A/3 boundaries surveyed, pegged and a single strand wire fence initially installed (later replaced by permanent fencing).
Fencing (Permanent)	Install permanent fence at the conservation precinct boundary, consistent with the requirements of the Conservation Management Plan Appendix H, Jandakot Airport Wildlife Fencing and Underpass Strategy. Note that this does not apply to Precinct 2B.	Contractor Site Manager assisted by JAH EM.	Upon completion of works adjacent to Conservation Precincts. For the purpose of this action, 'Completion of Works' has been defined as within 6 months of the completion of	Achieved. Precinct 6/2A boundary wallaby-proof fence replaced with chain mesh security fence. Precinct 2A/3 site fence replaced with chain mesh security fence.

Table 5.8 Flora and Fauna Management Plan				2015/16 Status
			vegetation clearing.	
Fauna Relocation	Where areas are adjacent to Conservation Precincts, clearing is to occur in a manner that encourages fauna to move into Conservation Precincts.	JAH EM assisted by the Contractor Site Manager.	Throughout construction.	Achieved.
Fauna Relocation	Employ experts to relocate fauna to appropriate habitat where fauna relocation is required.	Contractor Site Manager	Throughout construction.	Achieved. Quenda trapping undertaken by consultants prior to clearing in Precinct 3 (October 2016 – staged with clearing). Wallaby capture and relocation not required – macropods managed via directional clearing towards Conservation Precinct 2A.
Weed prevention	Vehicles (including plant/machinery) are to be cleaned off-site prior to initially accessing the airport for works. If vehicles temporarily leave site, they must be re-cleaned before returning unless they have remained on sealed roads in low-risk areas (e.g. trucks that make multiple daily journeys to cart sand from Jandakot airport development areas to off-site storage facilities).	Contractor Site Manager	Throughout construction.	Achieved.
**Weed Control	Outbreak of weeds within the Construction Site will be controlled to prevent impacts on neighbouring Conservation Precincts. Herbicide use within the JUWPCA is to be approved by the JAH EM and consistent with the herbicide label/instructions.	Contractor Site Manager	Throughout construction.	Achieved. (Glyphosate only used).
Landscaping	Where landscaping is a component of the scope of works, landscaping shall be consistent with the Jandakot Airport Landscaping Design Guidelines (as published on the Jandakot Airport website).	Contractor Site Manager	Throughout construction.	Not Applicable 16/17 FY.
Rehabilitation	Where rehabilitation requirements are a component of the scope of works, or required as a component of corrective actions, works shall be consistent with the Conservation Management Plan Appendix D, Bushland Rehabilitation and Revegetation Guidelines.	JAH EM	When rehabilitation is required.	Not Applicable 16/17 FY.
Monitoring				
Monthly (Documented)	Environmental Checklist completed	Contractor Site Manager	Monthly throughout construction.	Achieved.

Table 5.8 Flora and Fauna Management Plan				2015/16 Status
Daily (Visual)	During clearing in the vicinity of work area/Conservation Area boundaries, ensure that barriers are in place and works are confined to permissible areas.	Contractor Site Manager	Daily during clearing.	Achieved.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved.
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No flora or fauna incidents or complaints 16/17 FY.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No complaint received regarding flora or fauna.	Complaint received regarding flora or fauna.	<ol style="list-style-type: none"> 1. All complaints regarding flora/fauna impacts are immediately referred to the JAH EM. 2. JAH EM to investigate and liaise with the Contractor Site Manager and (if necessary) the complainant to ascertain the nature of the complaint. 3. JAH EM, in liaison with the Contractor Site Manager, to implement any required actions that are identified during the investigation process and (if appropriate) undertake follow-up liaison with the complainant. 		Performance Indicator met 16/17 FY.
Vegetation cleared in authorised areas only.	Clearing of native vegetation inconsistent with approved Works/Building permit/EPBC approvals in regards to the permissible area (i.e. unauthorised clearing).	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager to confirm if unauthorised clearing has occurred. 2. If confirmed, Contractor Site Manager to record event as an Environment Incident Report. 3. JAH EM and Contractor Site Manager to investigate and define extent of unauthorised clearing as well as the contributing factors and root cause. 4. Contractor site manager to arrange for action to be taken to alleviate the problem (including redefinition of boundaries if due to inadequate boundary marking). 5. JAH EM to advise DoE and DIRD or unauthorised clearing event within 7 days. 6. Contractor Site Manager to develop and implement a rehabilitation plan (consistent with Conservation Management Plan Appendix D). 		Performance Indicator met 16/17 FY.
No multiple	Multiple occurrences of fauna injury or	1. JAH EM to consult with contractor site manager regarding		Performance Indicator met

Table 5.8 Flora and Fauna Management Plan			2015/16 Status
occurrences of fauna injury or death from vehicle impacts at single location(s).	death from vehicle impacts at single location(s).	<p>incident trend.</p> <ol style="list-style-type: none"> 2. Contractor site manager to arrange for action to be taken to alleviate the problem (such as reduced traffic speed limits, re-induction of staff). 3. JAH EM to undertake a follow-up check after one week. 	16/17 FY.
No injured/orphaned fauna located within worksite.	Injured/orphaned fauna located within worksite.	<ol style="list-style-type: none"> 1. Contractor Site Manager to contact Wildcare (08) 9474 9055 for advice/instruction. 	Performance Indicator met 16/17 FY.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.			
**Weed management within Conservation Precincts is undertaken in accordance with the Conservation Management Plan Appendix B Weed Management Plan.			

Table 5.9 Dieback Management Plan				2016/17 Status
Element	Dieback Management			
Performance Objectives	To prevent the loss of vegetation and fauna habitat through the spread of dieback.			Achieved
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Planning	Where possible, schedule activities that involve soil disturbance for dry summer months (November – March) or dry conditions (noting clearing in winter months is often preferential as dust management is high risk).	Contractor Site Manager in consultation with JAH EM	Prior to clearing.	Achieved
Demarcation of Infested Dieback Areas	Where clearing/works includes dieback infested areas, the boundary of the infestation (and a buffer zone) will be clearly defined.	Contractor Site Manager in consultation with JAH EM	Prior to clearing.	Achieved
Works in Infested Dieback Areas	When undertaking works across dieback category boundaries (i.e. in areas that include both infested and uninfested), complete activities in the uninfested part of the bushland, before moving to the infested part of the bushland. Alternatively, if the dieback infestation is within a low lying area requiring fill, consideration should be given to clearing the dieback infestation (and a buffer) first to allow capping with clean fill, thus enabling the site to be managed as a dieback-free location for subsequent vehicle movements through the entire area.	Contractor Site Manager	Throughout construction.	Dieback areas were cleared and capped by clearing and earthworks contractor prior to civil contractor commencing. As a precaution trenching by the civil contractor into areas below the dieback-free capping were addressed during the works permit process and managed according to the Dieback Management Plan.
Washdown upon exit from dieback infested areas.	A temporary washdown facility will be established on a hard, well-drained surface at the dieback area exit point for cleaning vehicles/footwear/equipment exiting the dieback infested area. Any wash-down effluent (water, mud and slurry) must be collected on-site within the dieback infestation boundary and must not be allowed to drain into uninfested bushland.	Contractor Site Manager	Prior to clearing dieback infested area.	Achieved
Cleaning upon exit	Upon exiting dieback infested areas, all vehicles, equipment and footwear that	Contractor Site	Throughout	Achieved

Table 5.9 Dieback Management Plan				2016/17 Status
from dieback infested areas.	have come in contact with the soil will be cleaned free of mud and soil, using either the washdown facility, dry cleaning (e.g. stiff brush) or sterilisation techniques. Effort will be made to minimise the volume of water used in dieback cleaning.	Manager	construction when existing dieback infested areas.	
Works in Infested Dieback Areas	Restrict access to dieback infested areas to essential vehicles/equipment only, using a designated entry and exit point(s).	Contractor Site Manager	Throughout construction.	Achieved
Works in Dieback-Free Areas	Soil/sand/gravel required on site will be obtained from certified dieback-free sources.	Contractor Site Manager	Throughout construction.	Achieved
Works in Dieback-Free Areas	Vehicles (including plant/machinery) are to be cleaned off-site prior to initially accessing the airport for works. If vehicles temporarily leave site, they must be re-cleaned before returning unless they have remained on sealed roads in low-risk areas (e.g. trucks that make multiple daily journeys to cart sand from Jandakot airport development areas to off-site storage facilities).	Contractor Site Manager	Throughout construction.	Achieved
Works in Dieback-Free Areas	Footwear and equipment to be free of mud and soil when entering dieback-free bushland.	Contractor Site Manager	Throughout construction.	Achieved
Dieback Infested Vegetation and Soil Disposal.	Cleared vegetation and excess soil from within dieback infested areas will be managed and disposed of in a manner consistent with options proposed within the 2014 dieback assessment report by Glevan Consulting (or alternative advice provided by DPaW).	Contractor Site Manager	Throughout construction.	Achieved.
Monitoring				
Monthly (Documented)	Environmental Checklist completed	Contractor Site Manager	Monthly throughout construction.	Achieved.
Daily (Visual)	Where dieback control measures are required, they will be visually inspected daily to ensure they are being implanted.	Daily	Throughout construction.	Achieved.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved.
	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	No dieback management incidents or complaints 16/17 FY.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
All actions of this	Observation or Incident Report indicating	1. JAH EM to consult Contractor Site Manager and investigate the		Performance Indicator met

Table 5.9 Dieback Management Plan			2016/17 Status
Dieback Management Plan are implemented.	one or more actions of this Dieback Management Plan is not being implemented.	<p>incident/non-compliance.</p> <ol style="list-style-type: none"> 2. Contractor site manager to arrange for action to be taken to alleviate/rectify the problem. 3. JAH EM to undertake a follow-up check after one week, including liaising with complainant on actions undertaken and outcome. 	16/17 FY.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above. Refer also to Conservation Management Plan Appendix G Bushfire Management Plan.			

Table 5.10 Fire Prevention Management Plan				2016/17 Status
Element	Fire Prevention Management			
Performance Objectives	To minimise the risk of fires caused by clearing or construction activities.			Achieved.
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Fire Prevention	Total Fire Bans will be adhered to unless an exemption permit is obtained.	Contractor Site Manager	Throughout construction during Total Fire Bans.	Achieved.
Fire Prevention	Areas within 3 metres of where dangerous goods are stored shall be free from combustible materials.	Contractor Site Manager	Throughout construction.	Achieved.
Fire Prevention	No open fires are permitted on site (except if permission is obtained from relevant authorities to burn dieback infested vegetation stockpiles following clearing).	Contractor Site Manager	Throughout construction.	Achieved.
Monitoring				
Monthly (Documented)	Environmental Checklist completed	Contractor Site Manager	Monthly throughout construction.	Achieved.
Weekly (Visual)	Weekly visual inspection of all hazardous material storage areas.	Contractor Site Manager	Weekly throughout construction.	Achieved.
Daily (Visual)	Daily visual inspection during Total Fire Bans to ensure no prohibited activities are occurring on the worksite without a relevant permit.	Contractor Site Manager	Daily throughout construction (applicable to days of Total Fire Bans).	Achieved.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved.

	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	One small infrastructure fire impacting water tanks (specifically the liners) and interconnecting PE pipes was reported by the Precinct 6 Civil Works contractor 29/6/17. The fire was caused by electrical fusion welding of the pipes. As the fire was minor and contained, and only water was used to suppress it, it was concluded that the risk of environmental impact was negligible and the incident was handled as an OHS matter.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
All actions of the Fire Prevention Management Plan are implemented.	Observation or Incident Report indicating one or more actions of the Fire Prevention Management Plan is not being implemented.	<ol style="list-style-type: none"> 1. JAH EM to consult Contractor Site Manager and investigate the incident/non-compliance. 2. Contractor site manager to arrange for action to be taken to alleviate/rectify the problem. 3. JAH EM to undertake a follow-up check after one week, including liaising with complainant on actions undertaken and outcome. 		Whilst there was a fire (infrastructure) incident reported in 16/17 FY, there was no indication that the Fire Prevention Management Plan was not being implemented. As such it can be concluded that the performance indicator was met for 2016/17.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.				

Table 5.11 Cultural Heritage Management Plan				2016/17 Status
Element	Cultural Heritage Management			
Performance Objectives	To minimise the potential to damage any items of cultural significance which may be present in construction area.			Achieved.
Mitigation Measures/Actions		Responsibility	Timing/Frequency	
Planning	The Site Induction material specifically addresses: <ul style="list-style-type: none"> The need for personnel to monitor areas subjected to clearing and soil disturbance for items of potential cultural significance Actions required (i.e. Stop work and notify the Contractor Site Manager) in the event personnel identify an item of potential cultural significance. 	Contractor Site Manager	Prior to construction.	Achieved.
Monitoring				
	Environmental Checklist completed	Contractor Site Manager	Monthly throughout construction.	Achieved.
	Ongoing visual monitoring of areas subjected to clearing and soil disturbance for items of potential cultural significance.	All personnel engaging in ground disturbing activities	Throughout construction.	Achieved.
Reporting to JAH				
	Environmental checklists provided to JAH EM.	Contractor Site Manager	Monthly throughout construction.	Achieved.
	Immediate verbal/written notification to JAH EM if any items of potential cultural significance are discovered.	Contractor Site Manager	Immediately following a potential discovery.	No items of potential cultural significance discovered 16/17 FY.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No item(s) of potential cultural significance (excluding skeletal items) are identified during clearing and	Item(s) of potential cultural significance (excluding skeletal items) are identified and reported to the Contractor Site Manager.	<ol style="list-style-type: none"> Contractor Site Manager to immediately stop all ground disturbing activities in vicinity of discovery, secure the area to prevent all access and contact the JAH EM. JAH EM to consult with the Registrar of Aboriginal Site (Registrar) at the Department of Aboriginal Affairs (DAA). JAH EM to enact advice of DAA. 		Performance Indicator met 16/17 FY.

Table 5.11 Cultural Heritage Management Plan			2016/17 Status
soil disturbance activities.		<ol style="list-style-type: none"> 4. JAH EM to complete an incident report (with necessary input from the Site Contract Manager). 5. Work will not be permitted to recommence in the secured area until the Contractor Site Manager is advised by the JAH EM. 	
No skeletal item(s) of potential cultural significance are identified during clearing and soil disturbance activities.	Skeletal item(s) of potential cultural significance are identified and reported to the Contractor Site Manager.	<ol style="list-style-type: none"> 1. Immediately stop all ground disturbing activities in vicinity of discovery, secure the area to prevent access and contact the Police and JAH EM. 2. JAH EM to consult with the Registrar of Aboriginal Site (Registrar) at the Department of Aboriginal Affairs (DAA). 3. Upon notification that the remains are of Aboriginal origin and not a matter for further police involvement, the Registrar will seek the immediate involvement of relevant Aboriginal people. 4. JAH EM to complete an incident report (with necessary input from the Site Contract Manager). 5. JAH EM to develop an appropriate action plan for the management of the remains, in consultation with relevant Aboriginal people and the Registrar. 6. JAH to consult with police and Registrar regarding requirements to carry out further development activities at the discovery site location. 7. Work will not be permitted to recommence in the secured area until the Contractor Site Manager is advised by the JAH EM. 	Performance Indicator met 16/17 FY.
*Note Contingency Measures/Corrective Actions identified in this table are anticipated recommended actions. The Corrective Action(s) taken in response to any trigger/incident will be dependent on the outcomes of the investigation undertaken into the reported incident, and may therefore differ from that described above.			

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