



**EPBC Annual Compliance Report
2018-2019**

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

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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 allowed for the clearing and development of Precincts 6 and 6A as detailed within Master Plan 2014. This action commenced in 2015/16 and was completed in 2017/18. There are no outstanding offsets or reporting obligations for EOBC 2013/7032.

1.1 Management Plan Amendments

The following Management Plans were reviewed and amended in 2018/19:

- The amended GMP (V5.6) was submitted to DoEE 21/12/19 and approved 19/7/19.
- The amended CMP (V12.2) was submitted to DoEE 21/12/19 and approved 19/7/19. This included amendments to:
 - CMP Appendix B Weed Management Plan (V14)
 - CMP Appendix C Dieback Management Plan (V10)
 - CMP Appendix D Bushland Rehabilitation and Revegetation Guidelines (V2)
 - CMP Appendix F Feral Animal Management Plan (V3)
 - CMP Appendix G Bushfire Management Plan (V7)
 - CMP Appendix H Wildlife Fencing and Underpass Strategy (V3)
 - CMP Appendix I Heritage Management Plan (V2)

2 CONDITIONS OF APPROVAL

Table 1.1 below summarises compliance with EPBC 2009/4796 conditions of approval during 2018/19.

Table 1.1. EPBC 2009/4796 Conditions of Approval (as of 8/4/14)		
Condition		2018/19 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>As of 30 June 2018, 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>No clearing was undertaken in 2018/19.</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 2018/19.</p> <p>c) JAH did not undertake any clearing in 1A, 1B, 2A or 2B in 2018/19.</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. All works and offsets associated with EPBC 2013/7032 have been completed.</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>Under Master Plan 2014 Precincts 1A, 1B, 2A and 2B are Conservation Precincts and are managed accordingly.</p>
4	<p>The person taking the action must develop and submit a Jandakot Airport Offset Plan which must include but not be limited to:</p> <p>a) The rehabilitation of precincts 7 and 8 shown at Annexure A must take place in accordance with condition 5 and with the consent of Canning City Council. Evidence of consent from Canning City Council must be provided.</p> <p><i>Note: As Canning City Council did not provide consent to condition 4(a) of this approval, condition 4(a), 5 and 6(b) are no longer active conditions. This note has been inserted for clarity</i></p>	<p>Compliant</p> <p>The Jandakot Airport Offset Plan (v12 March 29, 2010) had already been submitted and approved by the Minister. Minor amendments were made to the Offset Plan in 2013/14 to allow for proportional funding to DPaW (now DBCA) to be made prior to staged clearing (consistent with amended condition</p>

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

Condition		2018/19 Compliance Summary
	<p>during the variation of conditions process, April 2014.</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>4b). 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 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>Not applicable – 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 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>Compliant Note: Condition 6b is no longer an active condition. The Jandakot Airport CMP (v10, 2010) had already been submitted and approved by the Minister. The CMP was reviewed and amended (v11 21/1/2014) and submitted to DoEE for the Minister's approval – which was subsequently granted 8/4/14. Specific elements of the CMP addressing primarily orchid, quenda and wallaby management (i.e. the</p>

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

Condition	2018/19 Compliance Summary
<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 Caladenia' (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 the management of the areas mentioned in condition 6(b) and 6(c).</p> <p>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.</p> <p>The Conservation Management Plan must be submitted and</p>	<p>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 CMP and its appendices were reviewed and amended in 2018 and submitted the DoEE 21/12/18. The amended CMP (V12.2) was approved by DoEE 19/7/19.</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	2018/19 Compliance Summary
	approved by the Minister before construction commences. The approved Conservation Management Plan must be implemented.
7	<p>The person taking the action must develop and submit a Jandakot Groundwater Mound Management Plan which must include but not be limited to:</p> <ul style="list-style-type: none"> a) Groundwater monitoring and reporting; b) Provision of groundwater monitoring reports to the Western Australian Department of Water and Water Corporation; c) Address all relevant measures included in the Local Water Management Strategy; d) Schedules for the independent audit of groundwater monitoring results and reports; e) Spill avoidance, management and rehabilitation measures and procedures; f) The introduction of a sewerage system; <p>The Jandakot Groundwater Mound Management Plan must be submitted within four (4) months of the date of this approval. Construction must not commence within precinct 5 until the Jandakot Groundwater Mound Management Plan has been approved by the Minister. The approved Jandakot Groundwater Mound Management Plan must be implemented.</p>
8	<p>The person taking the action must develop and submit a Construction Environment Management Plan (CEMP) to the Minister for approval. The plan must include but not be limited to:</p> <ul style="list-style-type: none"> a) Establishment and maintenance of fences and signage of “no go areas” in areas of priority and threatened species habitat; b) A landscaping vegetation schedule identifying plant species to be planted. Flora species to be planted must consist of

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

Condition		2018/19 Compliance Summary
	<p>Carnaby's Black-cockatoo (<i>Calyptorhynchus latirostris</i>) foraging plant species;</p> <p>c) Identification and implementation of erosion and sedimentation control measures during and following clearing;</p> <p>d) Identification and implementation of dust control measures during and following clearing;</p> <p>e) Identification and implementation of appropriate weed and dieback hygiene measures;</p> <p>f) Induct clearing and construction workers and contractors about requirements to protect priority and threatened species in accordance with relevant legislation;</p> <p>g) Measures to reduce impacts on listed threatened species; and</p> <p>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>	<p>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. No further amendments have been warranted to date.</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 2018/19. One approved MDP (Western Power Depot) that was developed and approved in 2017/18 was withdrawn in 2018/19.</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 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> <p>JAH has been liaising with DoEE since August 2017 regarding the preparation of Master Plan 2019 and has been seeking advice from both DoEE and DIRDC to ensure Master Plan 2019 (currently a draft version) remains compliant.</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 measure pursuant to this condition, the person taking the action</p>	<p>Not applicable in 18/19 FY The Minister has not requested specified revisions/.</p>

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

Condition		2018/19 Compliance Summary
	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.	<p>Compliant</p> <p>The following amended plans were submitted to DoEE in 2018/19 (21/12/18). However, as they were not approved until 19/7/19, implementation of the approved plans did not commence until 2019/20:</p> <ul style="list-style-type: none"> • GMP (V5.6) • CMP (V12.2) • CMP App. B Weed Management Plan (V14) • CMP App. C Dieback Management Plan (V10) • CMP App. D Bushland Rehabilitation and Revegetation Guidelines (V2) • CMP App. F Feral Animal Management Plan (V3) • CMP App. G Bushfire Management Plan (V7) • CMP App. H Wildlife Fencing and Underpass Strategy (V3) • CMP App. I Heritage Management Plan (V2)
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 18/19 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 auditing was undertaken/instructed by DoEE in 2018/19. JAH assisted DoEE via the provision of information and documents in relation <i>Caladenia huegellii</i> queries (including a FOI request) July-Aug 2018.
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 18/19 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.	Compliant The purpose of this report is to meet this condition. The 2017/18 EPBC Compliance Report was submitted to DoEE 12/10/18 along

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

Condition		2018/19 Compliance Summary
	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.	with the Annual Environment Report. The 2017/18 Annual EPBC Compliance Report was published on the Jandakot Airport website 16/10/18: 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 duration of the approval or until otherwise accepted in writing by the Minister .	Once approved, all EPBC-related management plans are published on the JAH website: http://www.jandakotairport.com.au/environment/environment-plans.html . No changes were made to these management plan in 2018/19 (noting plans amended plans approved 19/7/19 were published on the JAH website by 2/8/19).

3 OFFSET MANAGEMENT PLAN

Table 2 below summarises the 2018/19 status of actions contained within the Offset Management Plan.

Table 2. Offset Plan (V14) Summary of Actions			
Action		Timing	2018/19 Action Status
1	JAH undertakes to work with the Canning City Council until the end of June 2010 to achieve consensus to rehabilitate precincts 7 and 8	Until the end of June 2010	Not applicable in 18/19 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 18/19 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 18/19 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 18/19 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. DEC/DPaW confirmed 19/8/16 that the department did not have a requirement for the excess topsoil from current clearing stage.
6	This amount will be paid as outlined in Table 3.7	Refer to Offset Plan Table 3.7	Prior to 2018/19, payments of \$8,816,666.67 (ex GST) had been made. No additional clearing was undertaken in 2017/18, therefore no additional payments have been made.
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 18/19 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 18/19 FY
9	JAH will provide DEWHA with correspondence between JAH and DEC confirming DEC's agreement to the disbursement of funds and stating the intended use of the funds		Not applicable in 18/19 FY
10	JAH will provide the funding for the purchase of at least 1600 ha of Banksia bushland as outlined in Table 3.8	Refer to Offset Plan Table 3.8	Not applicable in 18/19 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 18/19 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 		Not applicable in 18/19 FY

Table 2. Offset Plan (V14) Summary of Actions			
Action		Timing	2018/19 Action Status
	DEC <ul style="list-style-type: none"> • Verification that the offset land consists of Carnaby's Black Cockatoo habitat and the area of habitat • The location of the offset land • The size of the offset land • The proposed tenure for the offset land and any other intentions DEC has for the use of the land 		
13	JAH will provide a letter from DEC containing the same information for each stage of the offset land as outlined in Table 3.8 prior to undertaking clearing in that particular year, with the exception of Stage 1	Prior to undertaking clearing in that particular year	Not applicable in 18/19 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 18/19 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 18/19 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 18/19 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 18/19 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 will/may be funded. 		Not applicable Note: 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).
19	No construction will take place before the Minister approves the Jandakot Airport Offset Plan	Approval of Offset Plan	Not applicable in 18/19 FY
20	If consent cannot be obtained from the Canning City Council for the rehabilitation of precincts 7 and 8, JAH will provide:- <ul style="list-style-type: none"> - topsoil to DEC - pay to DEC prior to the staged clearing of vegetation (refer Table 3.7 of Offsets Plan). 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, no payments were made as no clearing was undertaken. Payments of \$8,816,666.67 (Ex GST) have been made to date. As there has been no clearing

Table 2. Offset Plan (V14) Summary of Actions

Action		Timing	2018/19 Action Status
			in 2018/19, there has been no additional topsoil available (noting DPaW confirmed 19/8/16 that DPaW did not have a requirement for the excess topsoil from the current stage of clearing).
21	JAH will provide evidence to DEWHA of the DEC payment before clearing stages 2, 3, 4 and 5	Before clearing stages 2, 3, 4 and 5	Not applicable in 18/19 FY. There has been no clearing/associated offset payment.
22	Stage 1 payment will be made to DEC on the expiry of the City of Canning rehabilitation time frame (by end of December 2010)	By end of December 2010	Not applicable in 18/19 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 18/19 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 18/19 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 18/19 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 18/19 FY. All required payments were finalised in 14/15 FY (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 18/19 FY. 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 18/19 FY. 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 18/19 FY. Final Report forwarded to DoEE within the 2014/15 Annual Environment Report (submitted 23/10/15).

Table 2. Offset Plan (V14) Summary of Actions			
Action		Timing	2018/19 Action Status
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 18/19 FY.
31	Confirmation of this payment will be given to DEWHA prior to any clearing	Prior to any clearing	Not applicable in 18/19 FY.

4 CONSERVATION MANAGEMENT PLAN

Table 3.1 below summarises the 2018/19 status of actions contained within the Conservation Management Plan.

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2018/19 Action Status
Native Vegetation Management				
CMP1	Undertake Bushland Condition Survey and update Bushland Condition mapping every 5 years.	JAH EM	End of 2016	Not applicable in 18/19 FY.
CMP2	Update Bushland Condition mapping if significant unexpected detrimental changes are noted in annual weed quadrat surveys or triennial dieback assessments.	JAH EM	Within 12 months of the impact being reported.	Not applicable in 18/19 FY. Bushland condition mapping was updated in 2016. New mapping was incorporated into the amended CMP in 2018.
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 18/19 FY.
CMP4	Implement site-specific revegetation plan developed under CMP3.	JAH EM	As detailed in site-specific revegetation plan.	Not applicable in 18/19 FY.
CMP5	Review Rehabilitation and Revegetation Guidelines.	JAH EM	End of 2018.	Achieved. Amended plan submitted to DoEE 21/12/18.
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 18/19 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 18/19 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.	Not applicable in 18/19 FY.
CMP9	Monitor orchids with motion-sensitive cameras in an attempt to determine which herbivores are	JAH EM	2016	Not applicable in 18/19 FY.

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2018/19 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. An additional 25 <i>C. huegelii</i> plants were identified opportunistically in Spring 2018.
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.	Achieved. Undertaken Spring 2016 & 2017. However, JAH repeated census in 2018 to expand data and knowledge relating to <i>C. huegelii</i> emergence and survival.
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.	Not applicable in 18/19 FY.
CMP17	Undertake hand pollination and subsequent seed pod	JAH EM	Annually if requirement	Achieved. Seed provided to Prof

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2018/19 Action Status
	collection in fenced orchid quadrat for seed banking and/or research purposes.		for seed is confirmed by BGPA or relevant research institution.	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 18/19 FY. Population has not declined by more than 25%.
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 18/19 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 18/19 FY.
Fauna Management – Carnaby's Black-Cockatoo				
CMP21	Participate in the Annual Great Cocky Count survey.	JAH EM	Annually	Achieved 7 th April 2019.
Fauna Management – Quenda				
CMP22	Undertake passive quenda monitoring within the Conservation Precincts.	JAH EM	2017	Not applicable in 18/19 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 18/19 FY.
CMP24	Capture and relocate quenda from large bushland areas prior to undertaking approved clearing activities.	JAH EM	Prior to clearing.	Not applicable in 18/19 FY.
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 but before establishing a fauna corridor between	Not applicable in 18/19 FY.

Table 3.1. Conservation Management Plan (V12.1)				
Action		Responsibility	Timing	2018/19 Action Status
			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 18/19 FY (achieved in 17/18 FY).
CMP27	Monitor established fauna corridor between Precinct 2A and Jandakot Regional Park Acourt Reserve.	JAH EM	Upon establishment of the corridor.	Achieved and ongoing.
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 18/19 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 18/19 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 18/19 FY.
Stakeholder Consultation				
CMP33	Report on Stakeholder Consultation within JAH AER.	JAH EM	28 October Annually.	Achieved.
Reporting Requirements				
CMP34	Report against actions of	JAH EM	28 October	Achieved.

Table 3.1. Conservation Management Plan (V12.1)				
Action	Responsibility	Timing	2018/19 Action Status	
	the CMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.		Annually.	
Review and Amendment of CMP				
CMP35	Undertake a full comprehensive review and amendment of CMP.	JAH EM	Every 5 years (2018).	Achieved. Amended plan submitted to DoEE 21/12/18.
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.	Achieved. CMP was reviewed however no significant changes were warranted to the thresholds for triggering management intervention.

4.1 Weed Management Plan

Table 3.2 below summarises the 2018/19 status of actions contained within the Weed Management Plan (CMP Appendix B).

Table 3.2. Weed Management Plan (V13) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
Weed Control				
WMP1	Undertake targeted weed control in line with the Weed Control Program Attachment A.	JAH EM	Annually	Achieved
WMP2	Maintain a Register documenting details of weed control undertaken.	JAH	Annually	Achieved
Monitoring				
WMP3	Undertake Weed and Bushland Condition Survey and update mapping every 5 years (refer also CMP1).	JAH EM	End of 2016	Not applicable in 18/19 FY.
WMP4	Undertake Weed Quadrat Monitoring.	JAH EM	Spring Annually	Achieved
Reporting Requirements				
WMP5	Report against actions of the WMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIT and DoE.	JAH EM	28 October Annually	Achieved
Review and Amendment of WMP				
WMP6	Review and amend the Weed Control Program (Attachment A) following completion of the 2017 weed and bushland condition survey and mapping.	JAH EM	2017 or earlier if required (based on monitoring results, identification of new species, formal changes in weed risk status, opportunistic observations etc.)	Not applicable in 18/19 FY (noting the WMP was reviewed and updated).
WMP7	Update and revise the existing Environmental Weed Management Plan.	JAH EM	2018	Achieved. Amended plan submitted to DoEE 21/12/18.

4.2 Dieback Management Plan

Table 3.3 below summarises the 2018/19 status of actions contained within the Dieback Management Plan (CMP Appendix C).

Table 3.3 Dieback Management Plan (V9) Summary of Actions.				
Action		Responsibility	Timing	2018/19 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 18/19 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 18/19 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 18/19 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 18/19 FY.
DMP6	Inspect dieback signage and replace/update if required.	JAH EM.	Annually (July each year).	Achieved.
Construction and Earthmoving				
DMP7	Prepare a JAH-approved CEMP or project-specific DMP for all construction and earthmoving activities.	JAH EM in liaison with contractors.	Prior to works commencing.	Achieved Refer to CEMP V8.2 Section 5.9

Table 3.3 Dieback Management Plan (V9) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	CEMPs and project-specific DMPs will be consistent with the JAH Contractor Dieback Hygiene Policy and Guidelines (Attachment 1).			
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 18/19 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 18/19 FY. No requests received.
DMP13	Facilitate access by researchers to Jandakot Airport dieback infestations (subject to assessment and approval as described in DMP12).	JAH EM	Following receipt of request from a research institution or government agency.	Not applicable in 18/19 FY.
DMP14	Consult with dieback organisations and/or professionals to ensure that the most appropriate prevention and treatment methods are being applied	JAH EM	Prior to undertaking phosphite (or other appropriate) treatment and	Not applicable in 18/19 FY. Note: the consultant's Triennial Phytophthora Dieback occurrence assessment report was

Table 3.3 Dieback Management Plan (V9) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	at Jandakot Airport.		during triennial review of the DMP.	utilised during review and amendment of the CMP/DMP.
Monitoring and Contingency Requirements				
DMP15	Undertake dieback reassessment.	JAH EM.	2017 then Triennially.	Not applicable in 18/19 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 18/19 FY.
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 18/19 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).	Not applicable in 18/19 FY.
DMP19	Update the JAH CEMP and tenant OEMP templates with relevant dieback management information (only required if information within current CEMP and OEMP templates is not consistent with the current DMP).	JAH EM	Within 3 months of DMP review completion (or, if applicable, within one month of endorsement by relevant government regulator).	Not applicable in 18/19 FY.
DMP20	Ensure all CEMPs and OEMPs submitted to JAH for review and endorsement adequately addresses dieback management, relevant to the activities proposed to be undertaken.	JAH EM	Prior to endorsing CEMP or OEMP.	Achieved.
DMP21	Include relevant dieback management information within inductions for	JAH EM	Ongoing – Inductions to be completed	Achieved.

Table 3.3 Dieback Management Plan (V9) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	contractors working across dieback boundaries (e.g. weed spraying contractors).		before works commence.	
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.
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 18/19 FY. However, the DMP was again reviewed (in conjunction with entire CMP review). Amended plan submitted to DoEE 21/12/18.

4.3 Feral Animal Management Plan

Table 3.4 below summarises the 2018/19 status of actions contained within the Feral Animal Management Plan (CMP Appendix F).

Table 3.4. Feral Animal Management Plan (V2) Summary of Actions.				
Action		Responsibility	Timing	2018/19 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. Applications submitted 13/5/19: 09-002237-1 amended and replaced by DF26000007. 09-002236-1 amended and replaced by DF26000006.
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.	Not applicable in 18/19 FY.
FAMP6	Notify tenants and neighbouring landholders.	JAH EM	At least 3 days prior to baiting event.	Achieved.
FAMP7	Install warning signs in accordance with permit (not required if old signs are still intact).	JAH EM	At least 3 days prior to baiting event.	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 2019 and March/April 2019. Additional 1080 fox baiting occurred in July 2018.
FAMP9	Report to JAH EM the	JAH ASOs.	In the 2 weeks	Achieved.

Table 3.4. Feral Animal Management Plan (V2) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	number/date/location of any carcasses found.		following a baiting event.	
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 18/19 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 Note: birdfrite & culling is now reported in AVCRM system (a different component of the SMS).
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	Achieved. Amended plan submitted to DoEE 21/12/18.

* 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.

4.4 Bushfire Management Plan

Table 3.5 below summarises the 2018/19 status of actions contained within the Bushfire Management Plan (CMP Appendix G). 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 (V6) Summary of Actions.				
Action		Responsibility	Timing	2018/19 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 18/19 FY. Whilst the BFMP was amended, it was not approved by DoEE for implementation until 19/7/19.
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 (supported by JAH EM) for Landside Areas.	Annually by start of fire season (31 October).	Achieved.
BFMP7	Inspect fire breaks and	JAH OM	Annually by start of	Achieved.

Table 3.5. Bushfire Management Plan (V6) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	fire access tracks and undertake any required maintenance.	(supported by JAH EM) for Airside Areas. JAH FM (supported by JAH EM) for Landside Areas.	fire season (31 October).	
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. DFES is responsible for inspection testing of 'town main' hydrants, tenants are responsible for hydrants within leased boundaries & JAH is responsible for all other hydrants.
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 18/19 FY.
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 18/19 FY. Mapping was updated in 2018 as part of the review and amendment of the BFMP, however the new plan was not approved/applicable until

Table 3.5. Bushfire Management Plan (V6) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
				2019/20.
Stakeholder Communication				
BFMP14	Undertake familiarisation tours.	DFES response stations	Annually	Achieved. (independent DFES action 14/9/18).
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.	No significant updates. Relevant matters discussed during site visit 14/9/18 and in subsequent email correspondence.
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 18/19 FY.
BFMP18	Facilitate fauna rescue of animals injured by the fire.	JAH EM	Immediately after area is deemed "Safe".	Not applicable in 18/19 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 18/19 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 18/19 FY.
Investigation				
BFMP21	Conduct post fire investigations in consultation with DFES.	JAH EM/JAH OM	ASAP after fire	Not applicable in 18/19 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 18/19 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 18/19 FY.
Safety				
BFMP24	Undertake an inspection	JAH OM, JAH	ASAP after DFES	Not applicable in 18/19

Table 3.5. Bushfire Management Plan (V6) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	of the areas impacted by fire close areas deemed 'unsafe' pending further assessment and/or remediation.	IM, or JA HEM – depending on areas impacted.	declare Stand Down. Exact timing dependent on the areas impacts and associated risks.	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 18/19 FY.
BFMP26	Assess the fire-impacted area for rehabilitation and revegetation requirements.	JAH EM	As soon as possible after a fire.	Not applicable in 18/19 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 18/19 FY.
Reporting and Review				
Reporting				
BFMP28	Report against relevant actions of the BFMP within the Jandakot Airport Annual Environment Report (AER) and provide copies to DIRD and DoE.	JAH EM	By 28 October Annually.	Achieved.
Review				
BFMP29	Review and update BFMP.	JAH EM	2018.	Achieved. Amended plan submitted to DoEE 21/12/18.
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.	Achieved. Amended plan submitted to DoEE 21/12/18.

4.5 Fencing and Underpass Strategy

Table 3.6 below summarises the 2018/19 status of actions contained within the Wildlife Fencing and Underpass Strategy (CMP Appendix H).

Table 3.6. Wildlife Fencing and Underpass Strategy (V2) Summary of Actions.				
Action		Responsibility	Timing	2018/19 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 18/19 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 18/19 FY (achieved 17/18 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 18/19 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.	Not applicable in 18/19 FY (previously achieved).
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.	Achieved. 1080 fox baiting undertaken in the vicinity of Wallaby Gates linking Precinct 2B and neighbouring Jandakot Regional Park (Acourt Rd Reserve).
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.	Achieved.
FUS7	Investigate fauna	JAH EM	Within 12 month of the	Achieved and

Table 3.6. Wildlife Fencing and Underpass Strategy (V2) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	connectivity options between Precinct 2 (south) and neighbouring Jandakot Regional Park.		completion of Precincts 6 and 2 (South) fencing from aircraft movement areas.	implemented (17/18 FY).
Signage				
FUS8	Install wildlife warning signs in areas where significant fauna (i.e. quenda and wallabies) can access road areas and are at risk of being killed.	JAH EM	In response to 2 or more reports in the SMS of road deaths or near misses in a specific area over a 6-month period. Signage to be installed within 2 months of the requirement being identified.	Not applicable in 18/19 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	Achieved. Amended plan submitted to DoEE 21/12/18.

4.6 Heritage Management Plan

Table 3.7 below summarises the 2018/19 status of actions contained within the Heritage Management Plan (CMP Appendix I).

Table 3.7. Heritage Management Plan (V1) Summary of Actions.				
Action		Responsibility	Timing	2018/19 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 17/19 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	Achieved.

5 GROUNDWATER MANAGEMENT PLAN

Table 4 below summarises the 2018/19 status of actions contained within the Groundwater Management Plan (GMP).

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
Acid Sulfate Soil Management				
GMP1	Investigate Acid Sulfate Soils in line with DER guidelines and triggers.	JAH EM to facilitate the proponent/contractor undertaking the proposed action.	Prior to any action that triggers the requirement for investigation.	No actions triggering the requirement for ASS Investigation occurred in 18/19 FY.
GMP2	Develop and implement an ASSMP consistent with the DER Acid Sulfate Soils Guideline Series.	JAH EM to facilitate the proponent/contractor 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.	Not applicable in 18/19 FY.
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.

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
Groundwater Abstraction				
GMP6	Water abstraction is to be consistent with the licence issued by the DoW.	JAH EM	Ongoing	Achieved. Abstraction in 2018/19 FY was below allocation.
GMP7	Provide an annual groundwater abstraction report, containing abstraction volumes obtained from monthly meter readings, to the DoW.	JAH EM	28 October Annually from 2015.	Achieved. 2017/18 Abstraction Report completed and provided to DWER 11/10/18.
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 18/19 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. 2016/17 Annual Groundwater Monitoring Report was prepared and submitted to DoW (now DWER) & Water Corporation 11/10/18. The Report was a component of the AER submitted to DIRDC and DoEE (12/10/18).
GMP13	Seek comment from key stakeholders regarding proposed changes in	JAH EM	Prior to implementing proposed changes.	Not applicable in 18/19 FY. Changes to the GMP

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	sampling frequency, suite of analytes or assessment levels as detailed in Section 5.5.6.			(submitted to DoEE 21/12/18 and approved 19/7/19) had not impact on these factors.
GMP14	Undertake an independent audit of the groundwater monitoring program.	JAH EM	Every 5 years (next due by the end of 2017).	Not applicable in 18/19 FY.
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. Relevant incidents and Spills within the P1 JUWPCA are recorded in the SMS and summarised below. The single incident reported below was investigated and no impact/environmental harm was found to have occurred. SMS#5483 (26/9/18) in Precinct 6, Centurion involved a hydraulic oil leak (estimated 2L) from a truck delivering limestone to works associated with the runway extension construction site. Incidents and non-conformances within the JUWPCA as well as spills/incidents occurring elsewhere on the airport during 18/19 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	JAH EM	Prior to endorsing any CEMP or OEMP.	Achieved.

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	incident reporting procedures.			
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 information by 28 October annually for inclusion within the AER.	Achieved.
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. 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 18/19 FY. Content of the CEMP template (V8 May 2018) and OEMP template (V8.1 June 2019) 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	JAH EM	Prior to endorsing CEMP or OEMP.	Achieved.

Table 4. Groundwater Management Plan (V5.5) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
	and pollution prevention), relevant to the activities proposed to be undertaken.			
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. 2017/18 Annual Groundwater Monitoring Report was prepared and submitted to DoW (now DWER) & Water Corp 11/10/18. The Report was a component of the AER submitted to DIRDC and DoEE (12/10/18).
GMP26	Distribute Annual Monitoring Report to Key Stakeholders.	JAH EM	28 October Annually.	Achieved. 2017/18 Annual Groundwater Monitoring Report was prepared and submitted to DoW (now DWER) & Water Corp 11/10/18. The Report was a component of the AER submitted to DIRDC and DoEE (12/10/18).
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.	Achieved. 2017/18 Annual Compliance Report (against GMP V5.4) was prepared and published on the JAH website 16/10/18: http://www.jandakotairport.com.au/images/files/Environment/EPBC_Compliance_Report_17_18.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.	Achieved. Amended plan submitted to DoEE 21/12/18.

6 CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Table 5 below summarises the 2018/19 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 of 41 ha area in Precinct 3 (EPBC 2009/4796 Offset Plan Stage 3 for the extension of Runway 12/30 and the future Fourth Runway) was completed in 2016/17 and earthworks continued throughout 2018/19. Contractor: Urban Resources.
- Precinct 3 Construction Works (EPBC 2009/4796). The Major Development Plan for the extension of Runway 12/30 was approved in June 2015. The DIRDC Works Permit (16/5870) was approved 10/10/16 and works commenced in September 2018, continuing throughout 2018/19. The scope of works was expanded to include additional aviation lighting upgrades throughout the airport and additional pavement works within Precinct 3. Contractor: West Coast Civil.

Table 5. Construction Environment Management Plan (V8.2) Summary of Actions.				
Action		Responsibility	Timing	2018/19 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"> • 7/10/16 – RWY Extension Clearing & Earthworks • 31/08/18 - RWY Extension 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 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).	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 2018/19, six entries associated with EPBC-approved actions were made in the JAH SMS. Complaints: <ul style="list-style-type: none"> • SMS #5688 (16/3/19) related to potential dust impacts on a neighbouring residential area during topsoil stripping. Works ceased when it was apparent that dust was not effectively managed

Table 5. Construction Environment Management Plan (V8.2) Summary of Actions.

Action		Responsibility	Timing	2018/19 Action Status
				<p>with the water carts (prior to complaint being received). No further complaints received from the resident.</p> <p>Minor Spills:</p> <ul style="list-style-type: none"> • SMS#5285 (24/9/18) minor diesel spill (0.5L) in compound during emergency repairs to water cart. • SMS#5483 (26/09/18) hydraulic oil leak (max 2L) on Centurion Rd from truck delivering limestone to worksite. • SMS#5502 (10/10/18) minor oil leak (max 2L) on Centurion Rd from truck leaving worksite. • SMS#6670 (15/06/19) minor diesel spill (max 2L) associated with recovery of bogged asphalt grader on northern apron. <p>CEMP Non-Conformance</p> <ul style="list-style-type: none"> • SMS#5682 (13/3/19) involved WCC subcontractor trucks on landside roads with uncovered loads. No actual impact/environmental harm resulted. Contractor was notified and instructed to ensure all loads were covered. No further reports of uncovered loads noted.
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.

Table 5. Construction Environment Management Plan (V8.2) Summary of Actions.				
Action		Responsibility	Timing	2018/19 Action Status
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 18/19 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. 2017/18 AER was submitted to DIRDC and DoEE (12/10/18).
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	Achieved. 2017/18 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_17_18.pdf
Review, Amendment and Publishing of CEMP				
CEMP8	Review and amend CEMP.	JAH EM	As required. No defined timeframe required unless specified by DoE in relation to Condition 11 of EPBC 2009/4796.	Not applicable in 18/19 FY.
CEMP9	Ensure amended CEMP is distributed to relevant contractors.	JAH EM	Within 30 days of DoE approval.	Not applicable in 18/19 FY. No amendments made.
CEMP10	Publish amended approved CEMP on the JAH website.	JAH EM	Within 30 days of DoE approval.	Not applicable in 18/19 FY. 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)	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 2018/19 status against the elements/actions/monitoring/reporting/performance indicators.

Table 5.1 Training and Inductions				2018/19 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				2018/19 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.	Achieved. 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.	Not applicable 18/19 FY. No incidents or complaints associated with training and inductions. Incidents & non-conformances associated with other specific aspects of the CEMP are addressed in tables below (see 5.3, and 5.7).
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 18/19 FY.
Relevant training completed and	Contractor personnel identified on site undertaking tasks for	<ol style="list-style-type: none"> Contractor Site Manager to instruct identified personnel to cease work on specified task(s) and retrain as required. 		Performance Indicator met 18/19 FY.

Table 5.1 Training and Inductions			2018/19 Status
recorded for all contractor personnel working on site.	which they have not been trained or their training has not been recorded.	2. Contractor Site Manager to record event as non-conformance in Monthly Checklist.	
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 <i>could</i> be interpreted that incidents/non-conformances detailed in Table 5.3 are 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 18/19 FY (note assumes performance indicator relates to one per contractor). Contractor Urban Resources had one dust complaint in March 2019. Contractor West Coast Civil had one non-conformance (uncovered loads) in March 2019. *Note the 4 minor spills are not included as the causes are not related to training/inductions.
*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				2018/19 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.
Dedicated Noise Monitoring	Where there is the potential for noise/vibration to affect external stakeholders, the use of monitoring equipment will be considered. Based on previous stages	Contractor Site Manager	If required, timing to be determined	Not applicable 18/19 FY.

Table 5.2 Noise and Vibration Management Plan				2018/19 Status
Equipment	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.			following complaint/incident investigation.
Reporting to JAH				
	Environmental checklists provided to JAH EM.		Contractor Site Manager	Monthly throughout construction
	Incidents and complaints to be reported to JAH EM.		Contractor Site Manager	Within 24 hours.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No noise/vibration complaints received.	Receipt of noise/vibration complaint.	<ol style="list-style-type: none"> 1. JAH EM to consult immediately with Contractor Site Manager regarding noise/vibration management. 2. Contractor Site Manager to arrange for action to be taken to alleviate the problem. 3. Contractor Site Manager to record the event as an Environment Incident Report. 4. 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 18/19 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"> 1. JAH EM to consult with Contractor Site Manager regarding unresolved noise/vibration management and review adequacy of mitigation actions taken to date. 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 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 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 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. 		Not applicable 18/19 FY. No noise or vibration complaints.

Table 5.2 Noise and Vibration Management Plan			2018/19 Status
		5. Contractor Site Manager to report noise monitoring results to JAH EM.	
Measured noise monitoring confirms noise levels do not exceed 75 dB (A) LA _{eq} at surrounding sensitive receptors.	Measured noise monitoring confirms noise levels exceeding 75 dB (A) LA _{eq} at surrounding sensitive receptors.	<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). 	Not applicable 18/19 FY.
<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				2018/19 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	Achieved.

Table 5.3 Air Quality & Dust Management Plan				2018/19 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.	One non-conformance was raised by JAH. SMS#5682 (13/3019) involved WCC subcontractor trucks on landside roads with uncovered loads. No actual impact/environmental harm resulted.
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. 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.
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	Contractor Site Manager	If required, timing to be determined following complaint/incident investigation.	Not applicable 18/19 FY.

Table 5.3 Air Quality & Dust Management Plan				2018/19 Status
	likely be the result of an action arising from an air quality incident or complaint.			
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 complaint reported directly to JAH. SMS #5688 (16/3/19) related to potential dust impacts on a neighbouring residential area during topsoil stripping. Works ceased when it was apparent that dust was not effectively managed with the water carts (prior to complaint being received). No further complaints received from the resident.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No air quality complaints received.	Receipt of Air Quality complaint.	<ol style="list-style-type: none"> JAH EM to consult immediately with Contractor Site Manager regarding air quality management. 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). 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). 		One dust-related complaint received (see above).
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"> JAH EM to consult with Contractor Site Manager regarding unresolved air quality management and review adequacy of mitigation actions taken to date. Contractor Site Manager to record the event as an Environment Incident Report and arrange for action to be taken to alleviate the problem. 		Performance Indicator met 18/19 FY. Complaint relating to dust was resolved.

Table 5.3 Air Quality & Dust Management Plan			2018/19 Status
		<ol style="list-style-type: none"> 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. 	
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 18/19 FY.
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**. 	Related to complaint referenced above –visible dust (i.e. wind-blown topsoil) emissions were associated with topsoil removal on one day.
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 	Achieved.

Table 5.3 Air Quality & Dust Management Plan			2018/19 Status
		the problem. 3. JAH EM to undertake a follow-up check within one week.	
*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				2018/19 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 18/19 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 18/19 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 18/19 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 18/19 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.	Not applicable 18/19 FY. No incidents or complaints related to erosion and sediment control.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No erosion observed.	Erosion observed.	<ol style="list-style-type: none"> JAH EM to consult with Contractor Site Manager regarding erosion of exposed surfaces. Contractor Site Manager to arrange for surfaces to be stabilised. JAH EM to undertake a follow-up check after one week. 		Performance Indicator met 18/19 FY.
No runoff observed	Runoff observed moving offsite	<ol style="list-style-type: none"> JAH EM to consult with Contractor Site Manager regarding 		Performance Indicator met

Table 5.4 Erosion and Sediment Control Management Plan			2018/19 Status
moving offsite containing sediment or reported in incident report form.	containing sediment or reported in incident report form.	<p>movement of sediment-laden runoff.</p> <ol style="list-style-type: none"> 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. 	18/19 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. 	Not applicable 18/19 FY. Catch drains not required.
<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 5.5 Water Quality Management Plan				2018/19 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 dam 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.	Not applicable in 18/19 FY.
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.	Not applicable in 18/19 FY.

	Incidents and complaints to be reported to JAH EM.	Contractor Site Manager	Within 24 hours.	Achieved. Refer to the 4 minor spills summarized in table 5.7 below. No risk to groundwater quality (noting small volumes and management to contain/remediate).
	The reports of any monitoring undertaken as required by ASS/Dewatering Management Plans.	Contractor Site Manager	Consistent with ASS/Dewatering Management Plan.	Not applicable in 18/19 FY.
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 18/19 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				2018/19 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.
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 consultation with JAH EM	During operations.	Topsoil not required by DBCA/DPaW. Sufficient topsoil stockpiled for Jandakot Airport landscaping/stabilisation requirements.

Table 5.6 Waste Management Plan				2018/19 Status
Reuse	Reuse mulched vegetation (excluding dieback infested vegetation) in landscaping.	Contractor Site Manager in consultation with JAH EM	Throughout construction.	Achieved. Cleared vegetation stockpiled and mulched in stages (as required for JAH Landscaping).
Storage	Remove all waste from site.	Contractor Site Manager	Within 1 month of completion of construction.	Not applicable 18/19 FY (both contracts ongoing into 19/20 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.	Not applicable in 18/19 FY. No waste incidents.
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"> JAH EM to consult with Contractor Site Manager regarding waste disposal and storage. 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). 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. JAH EM to undertake a follow-up check after one week (or within 24 hours if aircraft safety was potentially impacted). 		Performance Indicator met 18/19 FY.
Wastes stockpiled within JUWPCA have, and are	Waste stockpiled within JUWPCA P1 Area without JAH EM approval or in a manner not consistent with JAH EM's	<ol style="list-style-type: none"> JAH EM to consult with Contractor Site Manager regarding waste storage within JUWPCA. Contractor Site Manager to arrange for waste to be moved to 		Performance Indicator met 18/19 FY.

Table 5.6 Waste Management Plan			2018/19 Status
consistent with, JAH EM's approval.	initial approval.	<p>designated storage area outside JUWPCA.</p> <ol style="list-style-type: none"> 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). 	
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 18/19 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 18/19 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 18/19 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				2018/19 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.	Achieved.
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.	Achieved (for the 4 minor spills reported).
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 site consistent with controlled wastes (<i>Environmental Protection (Controlled</i>	Contractor Site Manager	Throughout construction.	Achieved.

Table 5.7 Hazardous Materials Management Plan				2018/19 Status
	<i>Waste) Regulations 2004).</i>			
Storage	Remove all hazardous materials and dangerous goods.	Contractor Site Manager	Within 1 month of completion of construction.	Not applicable 18/19 FY (both contracts ongoing into 19/20 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.	4 minor incidents (spills/leaks) reported: <ul style="list-style-type: none"> • SMS#5285 (24/9/18) minor diesel spill (0.5L) in compound during emergency repairs to water cart. • SMS#5483 (26/09/18) hydraulic oil leak (max 2L) on Centurion Rd from truck delivering limestone to worksite. • SMS#5502 (10/10/18) minor oil leak (max 2L) on Centurion Rd from truck leaving worksite. • SMS#6670 (15/06/19) minor diesel spill (max 2L) associated with recovery of bogged asphalt grader on northern apron.

Table 5.7 Hazardous Materials Management Plan			2018/19 Status
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 18/19 FY.
Dangerous goods or hazardous materials stored in designated storage location.	Dangerous goods or hazardous materials stored outside designated storage location.	<ol style="list-style-type: none"> 1. JAH EM to consult with Contractor Site Manager regarding hazardous materials storage. 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. 	Performance Indicator met 18/19 FY.
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 Incident Report. 4. Contractor Site Manager to arrange for clean-up of spilled material and provide evidence of validation to JAH EM. 	<p>4 minor incidents (spills/leaks) reported:</p> <ul style="list-style-type: none"> • SMS#5285 (24/9/18) minor diesel spill (0.5L) in compound during emergency repairs to water cart. • SMS#5483 (26/09/18) hydraulic oil leak (max 2L) on Centurion Rd from truck delivering limestone to worksite. • SMS#5502 (10/10/18) minor oil leak (max 2L) on Centurion Rd from truck leaving worksite. • SMS#6670 (15/06/19) minor diesel spill (max 2L) associated with recovery of bogged asphalt grader on northern apron.

Table 5.7 Hazardous Materials Management Plan			2018/19 Status
Waste stored in appropriate containers and removed once containers at capacity.	Waste stored in inappropriate containers or not removed once containers at capacity.	<ol style="list-style-type: none"> 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 18/19 FY
<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 5.8 Flora and Fauna Management Plan				2018/19 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 18/19 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 (noting no vegetation removal in 18/19 FY).
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.
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 vegetation clearing.	Not applicable in 18/19 FY (achieved in 16/17 FY).
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	Throughout construction.	Not applicable in 18/19 FY.

Table 5.8 Flora and Fauna Management Plan				2018/19 Status
		Contractor Site Manager.		
Fauna Relocation	Employ experts to relocate fauna to appropriate habitat where fauna relocation is required.	Contractor Site Manager	Throughout construction.	Not applicable in 18/19 FY.
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 in 18/19 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 in 18/19 FY.
Monitoring				
Monthly (Documented)	Environmental Checklist completed	Contractor Site Manager	Monthly throughout construction.	Achieved.
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.	Not applicable in 18/19 FY. No flora/fauna incidents.
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"> All complaints regarding flora/fauna impacts are immediately referred to the JAH EM. JAH EM to investigate and liaise with the Contractor Site 		Performance Indicator met 18/19 FY.

Table 5.8 Flora and Fauna Management Plan			2018/19 Status
		<p>Manager and (if necessary) the complainant to ascertain the nature of the complaint.</p> <p>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.</p>	
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).	<p>1. JAH EM to consult with Contractor Site Manager to confirm if unauthorised clearing has occurred.</p> <p>2. If confirmed, Contractor Site Manager to record event as an Environment Incident Report.</p> <p>3. JAH EM and Contractor Site Manager to investigate and define extent of unauthorised clearing as well as the contributing factors and root cause.</p> <p>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).</p> <p>5. JAH EM to advise DoE and DIRD of unauthorised clearing event within 7 days.</p> <p>6. Contractor Site Manager to develop and implement a rehabilitation plan (consistent with Conservation Management Plan Appendix D).</p>	Performance Indicator met 18/19 FY (no clearing undertaken).
No multiple occurrences of fauna injury or death from vehicle impacts at single location(s).	Multiple occurrences of fauna injury or death from vehicle impacts at single location(s).	<p>1. JAH EM to consult with contractor site manager regarding incident trend.</p> <p>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).</p> <p>3. JAH EM to undertake a follow-up check after one week.</p>	Performance Indicator met 18/19 FY.
No injured/orphaned fauna located within worksite.	Injured/orphaned fauna located within worksite.	<p>1. Contractor Site Manager to contact Wildcare (08) 9474 9055 for advice/instruction.</p>	Performance Indicator met 18/19 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				2018/19 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 (when practicable).
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.	Not applicable in 18/19 FY. No clearing or works undertaken in dieback infested areas.
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.	Not applicable in 18/19 FY.
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.	Not applicable in 18/19 FY.
Cleaning upon exit from dieback infested areas.	Upon exiting dieback infested areas, all vehicles, equipment and footwear that 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.	Contractor Site Manager	Throughout construction when existing dieback infested areas.	Not applicable in 18/19 FY.
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.	Not applicable in 18/19 FY.
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.

Table 5.9 Dieback Management Plan				2018/19 Status
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.	Not applicable in 18/19 FY.
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.	Not applicable in 18/19 FY. No dieback management incidents or complaints.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
All actions of this Dieback Management Plan are implemented.	Observation or Incident Report indicating one or more actions of this Dieback Management Plan is not being implemented.	<ol style="list-style-type: none"> JAH EM to consult Contractor Site Manager and investigate the incident/non-compliance. Contractor site manager to arrange for action to be taken to alleviate/rectify the problem. JAH EM to undertake a follow-up check after one week, including liaising with complainant on actions undertaken and outcome. 		Performance Indicator met 18/19 FY.

Table 5.9 Dieback Management Plan	2018/19 Status
<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. Refer also to Conservation Management Plan Appendix G Bushfire Management Plan.</p>	

Table 5.10 Fire Prevention Management Plan				2018/19 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.	Not applicable in 18/19 FY. No fire-related incidents occurred.
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. 	Performance Indicator met 18/19 FY.
<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 5.11 Cultural Heritage Management Plan				2018/19 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.	Not applicable in 18/19 FY. No items of potential cultural significance discovered.
Performance Indicator	Trigger	Contingency Measures/Corrective Actions*		
No item(s) of potential cultural significance (excluding skeletal items) are identified during clearing and soil disturbance	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. JAH EM to complete an incident report (with necessary input from the 		Performance Indicator met 18/19 FY.

Table 5.11 Cultural Heritage Management Plan			2018/19 Status
activities.		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 18/19 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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