



ACT
Government



Compliance Report

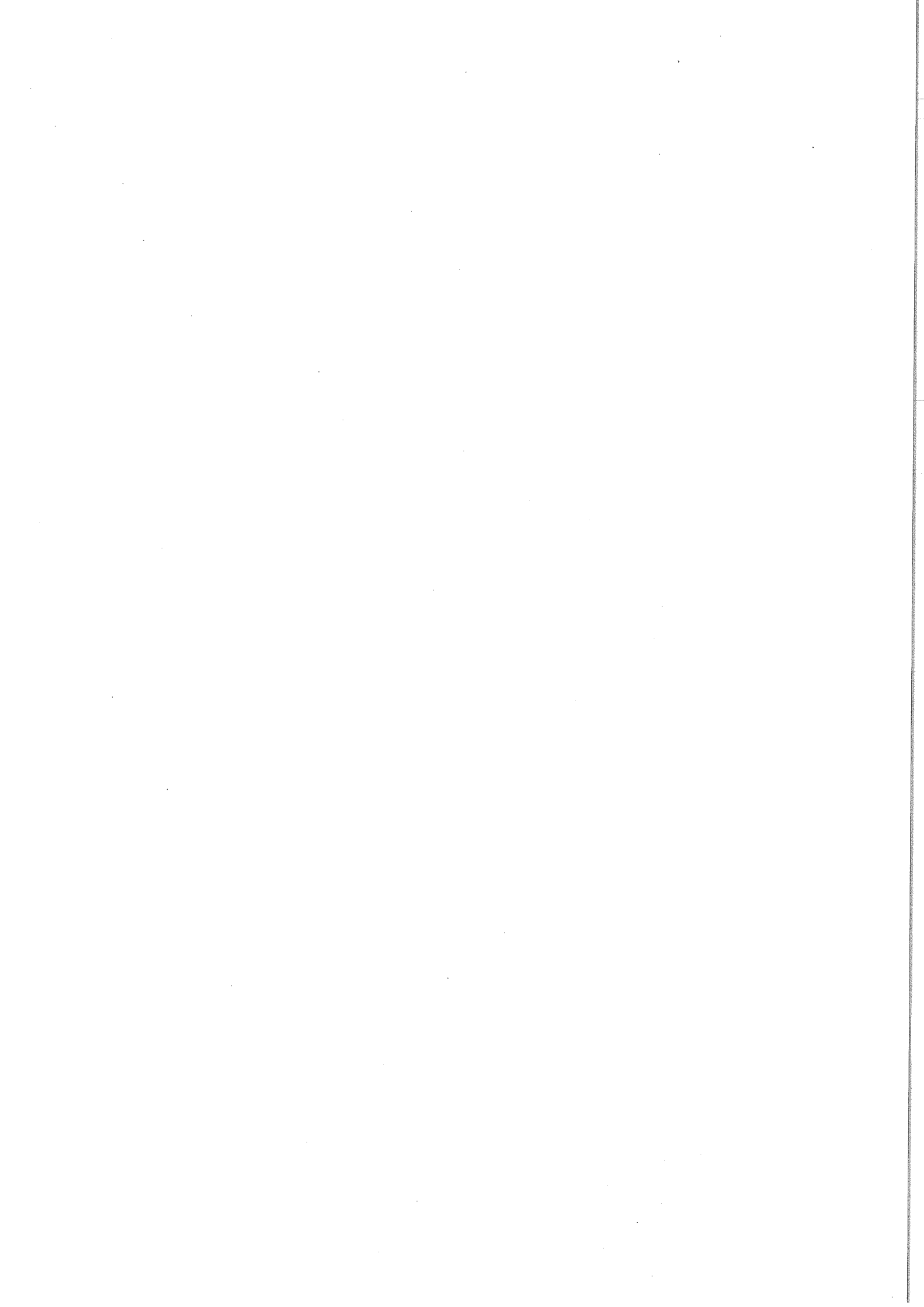
Lawson South

(EPBC 2010/5549)

11th December 2015 – 12th December 2016

November 2016

**Prepared by the Land Development Agency and the Environment and Planning Directorate on behalf
of the ACT Government**



This report demonstrates how the Land Development Agency (LDA) and the ACT Parks and Conservation Service (PCS) have complied with the conditions in the approval decision for the Lawson South Residential Development (EPBC 2010/5549).

Specifically, the LDA (the proponent) are responsible for complying with conditions 1-11, 14, 15 and 21 in the approval decision. PCS are responsible for complying with conditions 12 and 13. The LDA and the PCS are jointly responsible with for complying with conditions 16-20 and 23 in the approval decision.

In addition, this report also demonstrates how the ACT Parks and Conservation Service has implemented the management plan for the Jarramlee environmental offset site on behalf of the LDA (the proponent).

Declaration of Accuracy

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

Signed:

Full name: THOMAS CORDON

Position: EXECUTIVE DIRECTOR, LAND DEVELOPMENT AGENCY.

Organisation: LAND DEVELOPMENT AGENCY.

Date: 16.12.16

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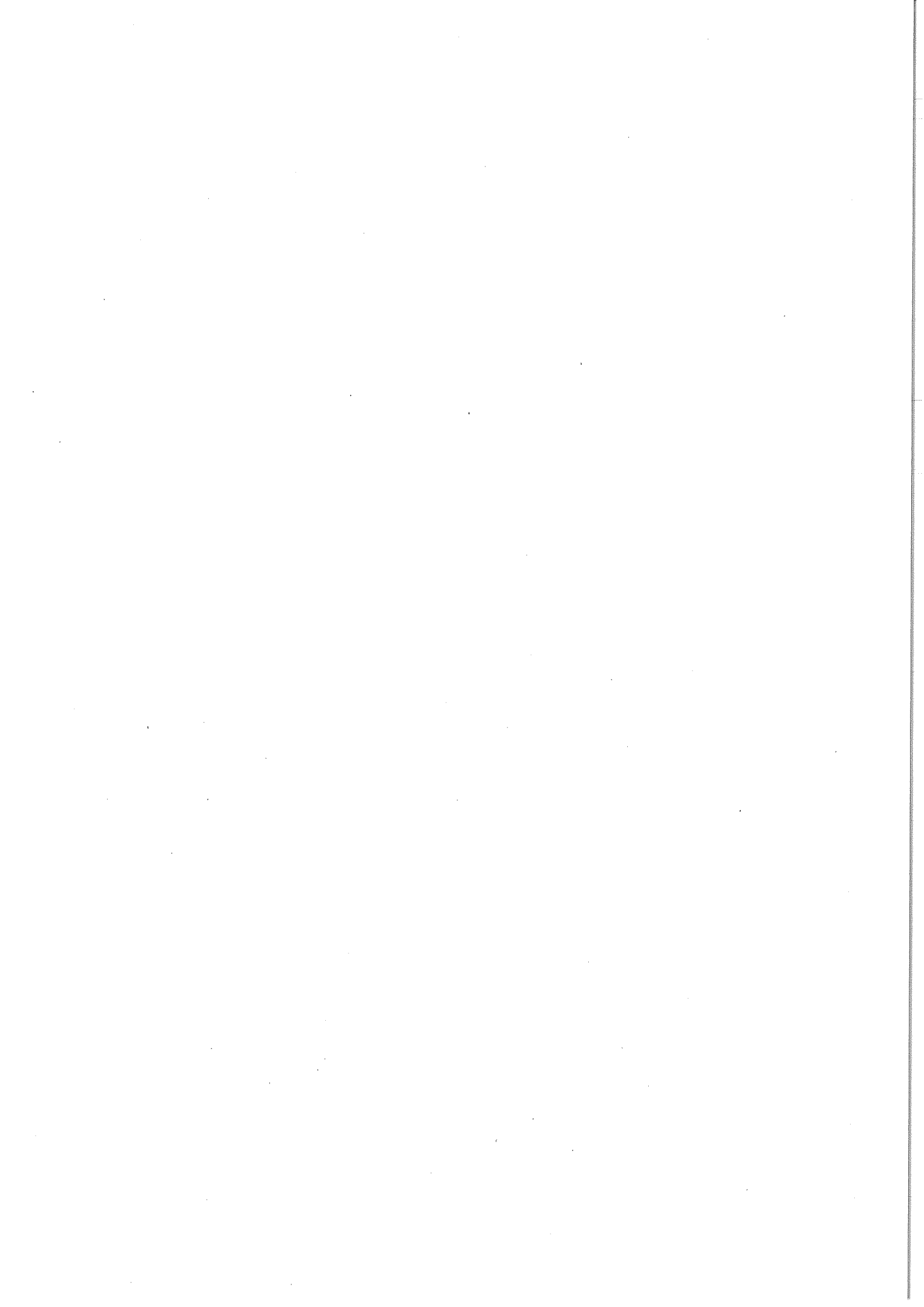
Signed:

Full name: Daniel Iglesias

Position: Director

Organisation: ACT Parks and Conservation Service, Environment and Planning Directorate

Date:



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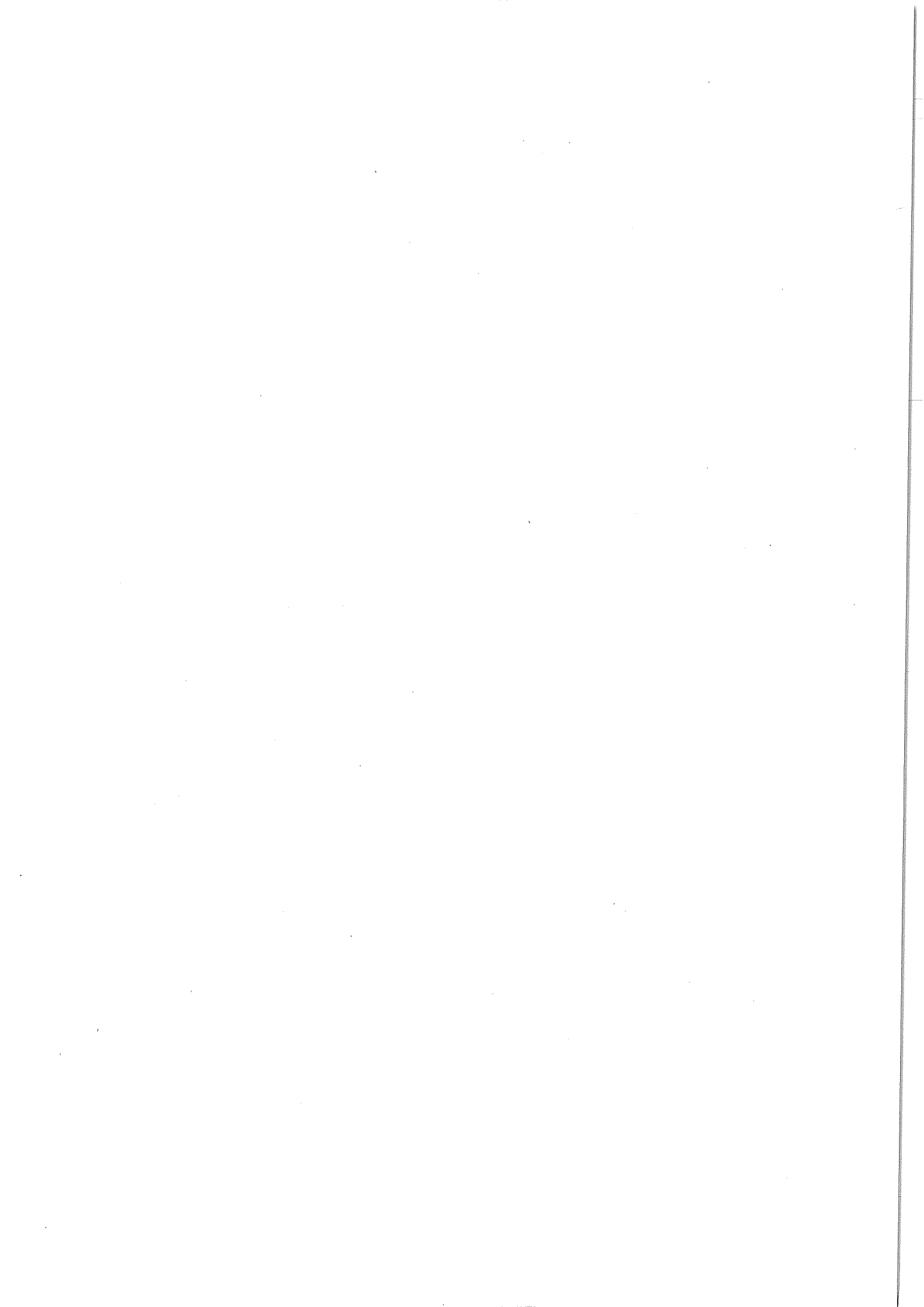
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15/12/16



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1. Compliance with conditions in EPBC Approval Decision

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
1.	All ground disturbed as a result of construction within the Inner Asset Protection Zone (IAPZ) and Golden Sun Moth (GSM) habitat within Reservoir Hill must be rehabilitated, by re-establishment of native grass species, no later than 30 days after completion of construction within the IAPZ and GSM habitat within Reservoir Hill.	LDA	Compliant/not applicable	All ground within the IAPZ has been rehabilitated with native grass species nominated in the EPBC approval as part of the Stage 1 civil construction works. Stage 2 has not commenced construction as yet so this is not applicable. The landscape construction works in Reservoir Hill are underway and the native grasses have been planted where disturbance has occurred. The native grass will be maintained over the coming summer period to ensure establishment.
2.	The person taking the action must not plant trees where they could shade GSM habitat within Reservoir Hill and GSM and Natural Temperate Grassland (NTG).	LDA	Compliant	No trees are proposed in the habitat area. No trees have been planted.
3.	The person taking the action must ensure that the GSM habitat within Reservoir Hill and Belconnen Naval Transmitting Station are separated from residential development by vehicular roads.	LDA	Compliant	The open space that the GSM habitat and NTG are located in are separated by either edge roads (Wanderlight Avenue and Dawn Crescent) or fire roads.
4.	The person taking the action must prevent sediment, eroded material, untreated and uncontrolled stormwater from entering the Belconnen Naval Transmitting Station and the GSM habitat within Reservoir Hill.	LDA	Compliant	Appropriate sediment and erosion control measures were in place during the civil construction of Stage 1 to ensure sediment, eroded material, untreated and uncontrolled stormwater did not enter the former Belconnen Naval Transmitting Station.

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
				<p>No measures were required during Stage 1 civil works to protect GSM habitat within Reservoir Hill as these works were down slope of the Hill.</p> <p>The landscape construction works in Reservoir Hill have adequate erosion and sediment controls to protect the nominated areas.</p>

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
5.	<p>The person taking the action must engage a suitably qualified expert to prepare an Environmental Management Plan (EMP) to maintain or improve the GSM habitat within Reservoir Hill.</p> <p>The EMP must be submitted to the Minister for approval by 1 July 2013. The approved EMP must be implemented within 12 months of the date of this approval. The EMP must address, but not necessarily be limited to:</p> <ul style="list-style-type: none"> a) measures to maintain or improve the quality and condition of the Golden Sun Moth habitat within Reservoir Hill through appropriate management actions, including, and not limited to, weed control and biomass management as informed by a suitably qualified expert; b) measures to prevent the access of unauthorised vehicles into the Golden Sun Moth habitat on Reservoir Hill, prior to, during and post construction. Measures must include, but not necessarily be limited to: <ul style="list-style-type: none"> i) temporary fences to prevent access by unauthorised vehicles; ii) replacement of the temporary fences required in Condition 5) b) i) with permanent structures, such as bollards, that will prevent access by unauthorised vehicles; and iii) maintenance of the permanent structures required in Condition 5) b) ii) so that the area remains inaccessible by unauthorised vehicles, with structures to be repaired or replaced as required. 	LDA	Compliant/On going	<p>Approved 11 December 2013.</p> <p>The EMP includes management recommendations for the pre-construction, construction and post construction period of the site, being Reservoir Hill. The following points address compliance against Section 5 of the EMP - Pre-construction, construction and post construction of the EMP.</p> <p>LANDSCAPE CONSTRUCTION</p> <ul style="list-style-type: none"> • S5.1.1 Site Induction – Site inductions by the contractor identified the protected habitat areas (a map of the habitat area is displayed in the Site Office). Regular Tool Box meetings reinforce the importance of the habitat area and instructions given that care must be taken to minimise disturbance during construction in this area. • S5.1.2 Fencing and Signage – Prior to construction commencing on the landscaping of Reservoir Hill the site was fenced with temporary construction fencing, cordoning the site off from the surrounding estate. Where construction works occurred within the habitat area, e.g. footpaths, the area of works were fenced with temporary construction fencing to ensure the area of impact was minimised • S5.1.3 Site hygiene and protocols – All machinery was clean and used only in dry conditions. The fencing of the site means that pedestrian activity within the habitat area has been avoided. No soil was brought into Reservoir Hill from outside the site. • S5.1.4 Timing – Asbestos removal in the habitat areas occurred in September 2013, outside the breeding season for the GSM. No further work occurred in this reporting

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
				<ul style="list-style-type: none"> • S5.1.4 Timing – construction works within the habitat area occurred outside the breeding season • S5.1.6 Path and facility construction and revegetation – machinery and the area of works for the footpath was restricted by the erection of temporary construction fencing. All areas of disturbance adjacent the footpaths have been revegetated with the nominated native grass species mix. • S5.1.7 Biomass and fuel management – Slashing of Reservoir Hill occurred in July 2013, after stock was removed from site and prior to construction commencing in September 2013. Slashing occurred in accordance with the prescriptions of the EMP. Kangaroos have maintained adequate levels of biomass on site since this date. A further slashing occurred at the beginning of November 2016 This was slightly later than nominated in the EMP due to high soil moisture levels (it was a very wet winter and spring). This was considered to be acceptable by the environmental consultant given the expectation that the GSM breeding season would occur later this year (due to the wet winter and spring). • S5.1.8 Weed control – all disturbed areas have been seeded with the nominated mix of grass species from Condition 1 EPBC 2010/5549 and have been regularly monitored for weed invasion. All other areas of Reservoir Hill have also been regularly controlled for weed,

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
				<p>particularly serrated tussock.</p> <ul style="list-style-type: none"> • S5.1.9 Landscaping – Only the nominated native grass species mix has been planted in the habitat area and this has only occurred on the disturbed areas. • S5.1.10 GSM Corridor – A corridor has been retained in the subdivision plans and zoned open space. This corridor has been implemented as part of the landscape construction works. • S5.1.11 Administration – These requirements have been delegated to the Superintendent during construction works and monitored by the LDA at fortnightly site meetings. • 5.2 Post Construction - No action required as construction works in Reservoir Hill are ongoing. <p>The first annual monitoring of GSM within Reservoir Hill is not required until one year after the commencement of construction within the GSM habitat on Reservoir Hill. This is scheduled to occur during December 2016.</p>
6.	The person taking the action must install interpretive educational signage at no less than five locations along the boundary of GSM habitat within Reservoir Hill.	LDA	Ongoing	The interpretive signage, in accordance with the Development Approval and Detail Design Acceptance, has been installed.
7.	The person taking the action must ensure that, during	LDA	Currently	This site has been assessed by the ACT Parks and

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	<p>the management of the Outer Asset Protection Zone (OAPZ):</p> <ul style="list-style-type: none"> a) Grass and other flora is not slashed to a height less than 300mm above the ground b) The removal or movement of rocks to facilitate the slashing of grass and other flora is prevented c) The slashing of grass and other flora be restricted to occurring within the OAPZ d) All grass clippings and biomass removed must be mulched and spread or caught and removed to prevent windrows or clumps of slashed biomass forming on top of grassland flora e) All machinery and equipment involved in the slashing of grass and flora are free from flora reproductive matter (for example seeds) prior to entering the OAPZ f) A log book is maintained that records all management actions including date, time and details of machinery, equipment and personnel as well as details of hygiene measures undertaken to demonstrate compliance with this condition g) Slashing or any other biomass management must not be undertaken: <ul style="list-style-type: none"> i. When the use of vehicles or machinery could result in the churn or compaction of soil due to 		Compliant	Conservation Fire Management Unit and it has been deemed unnecessary for it to become an OAPZ at this time.

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	high levels of soil moisture ii. During peak times of significant weed seeding as determined by a suitably qualified expert			
8.	Prior to the commencement of actions to manage or reduce biomass within the OAPZ, a detailed baseline ecological survey must be undertaken by a suitably qualified expert at an optimal ecological time within the OAPZ to gain sufficient baseline ecological information to identify and map the extent and condition of all listed threatened species and ecological communities or their habitat and any weed species. This information must be published and maintained on the person taking the action's website within 30 days after the completion of surveys.	LDA	Currently Compliant	The interpretive signage, in accordance with the Development Approval and Detail Design Acceptance, has been installed. This site has been assessed by the ACT Parks and Conservation Fire Management Unit and it has been deemed unnecessary for it to become an OAPZ at this time.
9.	The person taking the action must control weed species detected in the baseline ecological survey required by Conditions 2C) and 8 to ensure that the abundance and cover of weed species does not increase. Weed control must be informed by a suitably qualified expert and be undertaken in a manner that does not impact non-target flora or listed threatened species and ecological communities.	LDA	Currently Compliant	This site has been assessed by the ACT Parks and Conservation Fire Management Unit and it has been deemed unnecessary for it to become an OAPZ at this time.
10.	Should biomass management within the OAPZ be undertaken three or more times in any two year period, the person taking the action must conduct an	LDA	Not applicable	This site has been assessed by the ACT Parks and Conservation Fire Management Unit and it has been deemed

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	ecological assessment using a suitably qualified expert. The ecological assessment must be undertaken at an optimal ecological time no earlier than six months following the last biomass management activity, and be sufficient to detect any changes in ecological condition from the baseline survey required by condition 8.			unnecessary for it to become an OAPZ at this time.
11.	Within 30 days of the surveys required by Condition 5d) and 10, a suitably qualified expert must assess whether there has been a decline in the ecological condition of habitat for the GSM and NTG within the OAPZ and or GSM habitat within Reservoir Hill, if a decline is detected, the person taking the action must prepare, within 30 days for the approval of the Minister, a Restoration Plan for the restoration of the ecological condition of the OAPZ and of the GSM habitat within Reservoir Hill.	LDA	Not applicable	These surveys have not been undertaken to date as they have not been required. This site has been assessed by an ACT Parks and Conservation Fire Management Officer and it has been deemed unnecessary for it to become an OAPZ at this time.
12.	To compensate for impacts from the action to the GSM and NTG, the person taking the action must develop an Offset Strategy. The Offset Strategy must be submitted to the Minister for approval within six months of the commencement of construction.	PCS	Compliant	Approved 11 December 2013.
13.	To manage the McGregor West Offset area, the person taking the action must develop an Offset Management Plan (OMP), for approval by the	PCS	Compliant	Approved 11 December 2013.

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	Minister.			
14.	If, after two years, the monitoring required by Condition 11c) identifies that the actions outlined in the Restoration Plan for restoration of the ecological condition of the OAPZ and/or the GSM habitat within Reservoir Hill have been unsuccessful as determined by a suitably qualified expert, then the person taking the action must develop an Additional Offset Strategy (AOS). The AOS must be submitted to the Minister for approval within six months of determining that actions were unsuccessful.	LDA	Not applicable	The monitoring is not required yet.
15.	Within 30 days after the commencement of the action, the person taking the action must advise the department in writing of the actual date of commencement.	LDA	Compliant	DSEWPAC advised on 24 September 2013 that construction commenced on 12 September 2013.
16.	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 offset, OMP and, if required the Restoration Plan and any other report, strategies, agreements however described required by this approval, and make them available upon request to the department.	LDA / PCS	Compliant	All relevant documentation is maintained on ACT Government files.
17.	Within three months of every 12 month anniversary of	LDA / PCS	2013-14	The 2013-14 compliance reports (due 12 th December 2014)

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	the commencement of the action, the person taking the action must publish and maintain a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the department at the same time as the compliance report is published.		report non-compliant 2014-15 report compliant 2015-16 report non-compliant	The report was published to the TAMS website on the 20 th January 2015. In this case, no documentary evidence of publication was provided to the Department. To address this non-compliance, TAMS has developed formal procedures for the preparation and publication of EPBC compliance reports. These procedures have been approved by TAMS Executive and will be implemented by TAMS staff.
18.	Upon the direction of the Minister, the person taking the action must ensure that an independent audit of the compliance with the conditions of approval is conducted and report submitted to the Minister.	LDA / PCS	Not Applicable	No direction given.
19.	If the person taking the action wishes to carry out an activity otherwise than in accordance with the Offset Strategy, OMP and, if required, the Restoration Plan or AOS, and any other report, strategies, agreements however described as specified in the conditions, the person taking the action must submit to the department for the Minister's written approval a revised version of the Offset Strategy, OMP and, if required, the Restoration Plan or AOS, and any other report, strategies, agreements however described.	LDA / PCS	Compliant	Due to proposed changes to the actions within the Jarramlee offset area (please see table below for details), PCS is preparing a revised version of the Jarramlee Offset Management Plan. This plan will be submitted to the Department of Environment for approval.

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
20.	If the Minster believes that it is necessary or convenient for the better protection of the listed threatened species and communities and Commonwealth land to do so, the Minster may request that the person taking the action make specified revisions to the Offset Strategy, OMP and, if required, the Restoration Plan or AOS, and any other report, strategies, agreements however described as specified in the conditions and submit the revised Offset Strategy, OMP and, if required, the Restoration Plan or AOS, and any other report, strategies, agreements however described for the Minster's written approval.	LDA / PCS	Not Applicable	No request made.
21.	If, at any time after five years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.	LDA	Compliant	Action commenced on 12 September 2013 and substantially commenced by January 2014.
22.	Unless otherwise agreed to in writing by the Minster, the person taking the action must publish all management plans, ecological surveys, reports, strategy and agreement however described referred to in these conditions of approval on their website. Each management plan, ecological surveys, reports, strategy and agreement must be published on the	LDA/PCS	Non-compliant	<p>The publication dates for reports prepared as part of this approval decision are as follows:</p> <ul style="list-style-type: none"> • The Jarramlee Offset Management Plan – 13th May 2014 • The Offset Strategy – 18th June 2014 • The Environmental Management Plan for Reservoir Hill –

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	website within 30 days of being approved.			6 th August 2014

2. Implementation of the Offset Management Plan

The following table describes how the ACT Parks and Conservation Service (Territory and Municipal Services Directorate) has undertaken the management actions described within the Offset Management Plan for the 2014-15 reporting season on behalf of the Land Development Agency (the proponent). There was a total expenditure of \$185 849.26

Activity	Description	Comments	Estimated Timeframe for Completion (as described in OMP)	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
Biomass management plan	<p>The plan will guide:</p> <ul style="list-style-type: none"> The grazing and/or burning regime to maintain understory biomass at levels that benefit the golden sun moth (GSM) and natural temperate grassland (NTG) as well as comply with the requirements of a strategic fire fighting advantage zone. The location of internal fences along Ginninderra Creek and/or Gooromon Ponds Creek to ensure the biomass within the GSM habitat along the riparian corridor can be appropriately managed. The installation of stock grazing infrastructure. 	<ul style="list-style-type: none"> The Jarramlee Restoration Plan has taken the place of a site specific biomass management plan. The draft biomass management plan will continue to be implemented until the Restoration plan is completed PCS is also currently developing a Biomass Management Planning Framework that will guide biomass management across multiple environmental offset sites. This is still in the process of being developed. Stock fencing was installed to implement cell grazing within the upper Jarramlee sites. This will enable the removal of stock from high quality NTG at strategic times. This section was crash grazed for one week in September 2016 to reduce the biomass to a suitable height for the GSM flight season. Cattle have been excluded from the NTG area on the western side of the reserve during spring 2015 and 2016 The cattle have also been removed from the triangle paddock east of the sealed road to Jarramlee Homestead for spring 2016. There is high quality NTG present. 	2013-14	See fencing expenditure

Activity	Description	Comments	Estimated Timeframe for Completion (as described in OMP)	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
Consult with ACT Heritage Unit	<ul style="list-style-type: none"> Inform the ACT Heritage Unit of operational or habitat restoration works which could impact Aboriginal scatters recorded in Jarramlee. Seek advice from the ACT Heritage Unit prior to upgrading the fence on the ACT/NSW border along the Bicentennial National Trail. 	<ul style="list-style-type: none"> The ACT Heritage unit were consulted on the replacement of the ACT/NSW border fence to the west of the sealed road to Jarramlee Homestead in September 2015. This fence was replaced in early 2016. Advice will be sort for the future NTG restoration work and the upgrade of the fences along the eastern triangle paddock along the management road and the BNT. 	As is required	-
Fencing	<ul style="list-style-type: none"> Upgrade to 'vandal resistant' gates along the BNT. Repair or replace other boundary fences as needed. Fence off Ginninderra and/or Gooromon Ponds Creek as guided by the biomass management plan to protect stream banks from stock trampling. The ACT Heritage Unit needs to be advised of any planned upgrade or replacement to the heritage fence on the ACT/NSW border fence along the BNT. 	<ul style="list-style-type: none"> Stock fencing was installed in August 2016 to implement cell grazing within the upper Jarramlee sites and remove cattle from the riparian zone. This will enable the removal of stock from high quality NTG and the riparian zone of the Ginninderra Creek at strategic times. This will assist to manage grazing within the GSM habitat and is a component in the rehabilitation of the riparian zone of the Ginninderra Creek. The ACT/NSW border fence to the west of the sealed road to Jarramlee Homestead was replaced in early 2016. 	2014-15	\$42,348.42
Stock grazing preparation	<ul style="list-style-type: none"> Install mains fed troughs to supply stock water from Ginninderra Creek and Gooromon Ponds Creek. 	<ul style="list-style-type: none"> The temporary water tanks have been moved to the top paddocks to the west of the sealed road to provide water for crash grazing now that the cell grazing fencing has been installed and the riparian fencing has been installed. They will be moved back into the BNT when needed. 	2014-15	\$14,411.50

Activity	Description	Comments	Estimated Timeframe for Completion (as described in OMP)	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
Signage	<ul style="list-style-type: none"> Design, construct and install reserve signage to identify the reserve to the public including use related information. 	<p>These tanks provide greater flexibility for providing stock water and are being trialled as an alternative to fixed, mains fed water sources. They do require regular filling.</p> <ul style="list-style-type: none"> The mains fed troughs project has started. The water meter and some of the piping has been installed. However, weather has stalled the progress of the rest of the project. 	2014-15	
Riparian restoration	<ul style="list-style-type: none"> Undertake stream bank protection works at the confluence of Ginninderra Creek and Gooromon Ponds Creek to protect GSM habitat from erosion. Revegetate with indigenous shrubs within other sections of the riparian zone to provide habitat for woodland and migratory birds. Planting should be done in small patches along the riparian corridor avoiding GSM habitat. Seed advice from ACT Government ecologists on plant species selection and on the location of the revegetation works. 	<ul style="list-style-type: none"> Signage installation had been postponed until the final nature reserve boundary was confirmed (i.e. as part of the West Belconnen Strategic Assessment process). This only took effect in July 2016. The guiding document for the Urban Reserve sign standards is also still in preparation. The signage for Jarramlee will be postponed further until this is finalised Four habitat plots were planted in May 2015, in consultation with ACT Government ecologists and Greening Australia within existing woodlots across the wider Jarramlee offset to increase connectivity for woodland birds. These plots have been maintained throughout 2016. A conflict exists between the requirement to graze the GSM habitat along the riparian corridor to maintain suitable habitat structure and the need to protect the riparian corridor from stock to minimise erosion and impact to the riparian environment. 	2015-16	<p>\$7,876.00</p> <p>Also see Fencing Expenditure</p>

Activity	Description	Comments	Estimated Timeframe for Completion (as described in OMP)	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
		<ul style="list-style-type: none"> A consultant was engaged to assess and provide rehabilitation recommendations. Implementation of these recommendations has commenced. As per the recommendations the cattle have been removed from the site. Initially they will still be used to actively manage the Chilean Needle Grass biomass for GSM breeding season and seed load downstream. This will only be away from the worst section of stream bank erosion. This will be in a controlled rotational grazing cell format so as to lessen their impact. Mowing has started on the riparian zone. The river bank from the confluence has been mowed using a tractor with slasher and a team of brush cutters were also hired. This will be undertaken on a regular basis when the GSM is not actively flying. The on ground work commenced in October 2016. Further advice is being sort from experts and consultants on alternative means of protecting and restoring the riparian corridor. This will be both engineering and revegetation. Riparian restoration works will continue once this advice is received. 		
Connectivity and GSM habitat restoration	<ul style="list-style-type: none"> Engage an external contractor to rehabilitate the area between Jarramlee and Dunlop Grasslands Nature Reserve to 	<ul style="list-style-type: none"> The original Golden Sun Moth habitat connectivity project was postponed due to the cost and practicality of the project. 	2016-17	\$10,215.50

Activity	Description	Comments	Estimated Timeframe for Completion (as described in OMP)	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
	improve GSM habitat connectivity.	<ul style="list-style-type: none"> Alternative measures to improve the GSM habitat connectivity are being included as part of the West Belconnen Strategic Assessment. This includes the protection and management of Lot 2 Wallaroo Road, which has recently been purchased by the ACT Government. This site has an established population of GSM and the protection and management of this land provides greater value for the long-term conservation of the GSM and improved GSM habitat connectivity. Additionally The Jarramlee Restoration Plan is being developed as a whole of site approach to GSM habitat and NTG restoration Remediation works have taken place on a plot damaged by vehicles. The opportunity has been taken to plant a selection of species to improve NTG structure and area. 		
Weed control	<ul style="list-style-type: none"> Reduce the impact of weeds of concern, namely: serrated tussock, St John's wort, African love grass, Patterson's curse, sweet brier, blackberry and saffron and scotch thistles. Until results on the current research on Chilean needle grass control within golden sun moth habitat are available, Chilean needle grass control should be limited to areas outside of GSM habitat. To minimise impact on woodland bird 	<ul style="list-style-type: none"> Weed control was undertaken across Jarramlee for: <ul style="list-style-type: none"> Blackberry/woody weeds – Jan 2016 St John's wort – Feb 2016 Chilean needle grass –May/ Aug/Sept 2016 Serrated tussock –Aug/Sept/Oct 2016 African love grass – Aug/Sept/Oct 2016 Patterson's curse – march/ Oct 2016 Scotch/Saffron thistle – July/Sept 2016 Chilean needle grass and serrated tussock 	On-going	\$70,263.22

Activity	Description	Comments	Estimated Timeframe for Completion (as described in OMP)	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
	<p>habitat, control large woody weeds in a phased approach including control methods such as stem injection or frill poison to leave temporary standing structure. Protect native plant species from off-target damage.</p> <ul style="list-style-type: none"> To maintain an open grassland structure regenerating trees and shrubs should be removed from outside woodlots. 	<p>were treated twice during this period due to their abundance and invasiveness.</p> <ul style="list-style-type: none"> Chilean needle grass control was limited to areas outside of the riparian corridor where it is the primary habitat for the GSM. A phased program for removing/treating Blackberry and other woody weeds was started in 2014 to minimise impacts on woodland bird habitat. Plants were sprayed but not removed to leave structure for nesting birds. Some large plants were not treated to provide foliage for nesting birds. Further control and removal of plants will continue in 2016-17. Four habitat connectivity plots were planted in May 2015 to increase native habitat for woodland birds as the woody weeds are gradually reduced. Slashing and herbicide are used in the plots to reduce the weeds. 		
Golden sun moth research	<ul style="list-style-type: none"> Research into golden sun moth life cycle, habitat requirements or translocation 	<ul style="list-style-type: none"> Golden Sun Moth translocation research was completed in 2013-14 and 2014-15. This was co-ordinated by PCS and funded by the Land Development Agency. The ACT Government has committed \$100,000 p.a. for research as part of the Gungahlin Strategic Assessment. This includes additional funding to test GSM translocation methods. The ACT Government is currently identifying research priorities, which will guide a long-term research program utilising these funds 	2015-16	

Activity	Description	Comments	Estimated Timeframe for Completion (as described in OMP)	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
		<p>(including those for GSM).</p> <ul style="list-style-type: none"> Due to the roll out of other research programs targeting GSM in the ACT, this research program is being delayed. PCS is currently working to identify the research priorities that will assist us to address the management issues and better manage the MNES within the Jarramlee offset area. Potential research includes identifying techniques to manage Chilean needle grass and/or increase the cover of native grasses where CNG is present within GSM habitat areas. Further discussion is required with ACT Government ecologists. A revised research program will be included in the revised offset management plan and in the Jarramlee Restoration Plan. 		
Vertebrate pest control (rabbits)	<ul style="list-style-type: none"> Undertake a low risk control program Spotlight counts in spring and autumn Map active warrens in winter and control rabbits in spring Follow up control may be necessary 	<ul style="list-style-type: none"> Only a few active warrens present. These are primarily in blackberry bushes. The blackberries are currently being controlled to reduced blackberry harbour. Seasonal rabbit monitoring is ongoing. It includes a quarterly spotlighting program to monitor rabbit numbers 	On-going	
Monitoring golden sun moth population	<ul style="list-style-type: none"> The golden sun moth population will also be surveyed once in every five year period. Priority will be given to undertaking these surveys in years where emergence of golden sun moth in other sites in the ACT is high. 	<ul style="list-style-type: none"> Monitoring was undertaken in Dec 2015. See Results on Offsets Hub Monitoring will also be undertaken within the 2016/17 flight season if the GSM hatch 	By the end of the 2014 flight season and then once in every 5 year period thereafter	

Activity	Description	Comments	Estimated Timeframe for Completion (as described in OMP)	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
Monitor extent and quality of golden sun moth habitat and natural temperate grassland Staff resources	<ul style="list-style-type: none"> The extent and quality of golden sun moth habitat and natural temperate grassland will be re-mapped in 2015 and then every four years thereafter TAMS are currently supporting 0.5 FTE Senior Ranger position to implement the management plan for the Jarramlee offset. 	<ul style="list-style-type: none"> Monitoring undertaken Dec 2015 and Nov 2016 A Senior Ranger has been engaged to deliver on the actions outlined in the Offset Management Plan. TAMS is also providing in-kind support with 0.2 FTE of a GSO9 working on the project. 	2015 then every 4 years thereafter On-going	\$9000.00 \$54,540.00 plus 0.2 FTE GSO9 position (in-kind)

Other actions.

Below are actions that have been undertaken within the offset area and are additional to those described within the offset management plan.

Activity	Description	Actions	Expenditure (ex. GST) Total expenditure to date (from 2015-16)
Subsidence	We are experiencing subsidence in an area that is above de-commissioned sewage infrastructure	This area was formally closed under the <i>Nature Conservation Act 2014</i> (ACT) due to the risk to public safety. Fencing and closure signs have been installed. A consultant has been engaged review the extent of the problem. A scoping report including recommendation of actions moving forward is in production and will be finalised in December 2016. Golden Sun Moth individuals and habitat have previously been identified within the area. The Commonwealth has been notified of the closure of the site and will be informed of any requirements to rehabilitate the area.	\$27,774.62
Possible Striped Legless Lizard sighting	We have had two unconfirmed sightings of Striped Legless Lizards within the Offset Area.	To confirm the sighting, PCS staff will be surveying for Striped Legless Lizard over November 2015/16	
Pink Tailed Worm Lizard	The site is identified as suitable habitat for the Pink Tailed Worm Lizard	Pink Tailed Worm Lizard surveys will be undertaken in November 2016. The report will be finished early 2017	
Bird Monitoring	Several rare and threatened bird species have been reported anecdotally in the area	Bird surveys have been undertaken seasonally over 2015/16 and a report will be produced by Feb 2017	\$3,960.00