



# **Lawson South Residential Development EPBC 2010/5549 Annual Compliance Report**

**01 July 2020 – 30 June 2021**

**August 2021**

**Prepared by the Environment, Planning and Sustainable Development Directorate, on  
behalf of the ACT Government**

This report demonstrates how the Suburban Land Agency (SLA, the proponent, previously known as the Land Development Agency), Transport Canberra and City Services (TCCS), 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). This covers the 2020-2021 reporting period, from 01 July 2020 to 30 June 2021.

Overall responsibility for the approval conditions sits with the proponent. Specifically, for delivering each condition:

- SLA had responsibility for complying with conditions 1-12, 14, 15 and 21. Conditions 2-4, 12, 15 and 21 have been met. Responsibility for the remaining conditions was transferred to TCCS, as part of the transfer of management responsibility from SLA to TCCS for Reservoir Hill and the OAPZ on Commonwealth land, which commenced on 15 December 2017.
- TCCS is responsible for complying with conditions 7 and 10. In addition, TCCS has assumed responsibility for conditions 1, 5-11 and 14.
- PCS is responsible for complying with conditions 12 and 13.
- The SLA, TCCS, and PCS are jointly responsible for complying with conditions 16-20 and 22 in the approval decision.

In addition, this report also demonstrates how PCS has implemented the management plan for the Jarramlee environmental offset site on behalf of the SLA.

## 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: Stephen Alegria

Position: Executive Branch Manager, City Presentation

Organisation: Transport Canberra and City Services Directorate

Date: 30 August 2021

Signed:

Full Name: Chris Webb

Position: Program Manager, Urban/Commercial

Organisation: Suburban Land Agency

Date:

Signed:



Full Name: Daniel Iglesias

Position: Executive Branch Manager, Parks and Conservation Service

Organisation: Environment, Planning and Sustainable Development Directorate







Date: 1/09/2021

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1. Location of the Jarramlee offset area



<p><b>EPBC 2010/5549</b></p> <ul style="list-style-type: none"> <li> Offset Site</li> <li> Associated Development</li> <li> Nature Reserve</li> <li> Avoidance Area</li> <li> ACT Border</li> </ul>	<p>0.1 0.05 0 0.1 Km</p> <p>1:10,150 When printed at A4</p> <p>Coordinate System: GDA 1994 MGA Zone 55</p> <p>Prepared by: Environmental Offsets Team ACT Parks and Conservation Service Environmental Offsets PO Box 158 Canberra ACT 2601</p> <p>Printed: 14/07/2021</p>	 <p>© COPYRIGHT ACT Government 2021 All Rights Reserved</p> <p>Disclaimer: While all care is taken to ensure accuracy, the ACT Government does not warrant that the map is free from errors.</p> <p>Aerial Photography 2020</p>
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## 2. Compliance with conditions in EPBC Approval Decision 2010/5549 during the 2020-21 reporting period

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.	SLA and TCCS	Compliant	<p>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.</p> <p>Stage 2 has not commenced construction as yet so this is not applicable.</p> <ul style="list-style-type: none"> <li>Construction is expected to commence in the 2022-23 financial year.</li> <li>All construction works will be covered by an approved Construction Environmental Management Plan which will detail appropriate processes and practices.</li> </ul> <p>The landscape construction works in Reservoir Hill are complete and the native grasses have been planted where disturbance has occurred.</p>
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).	SLA	Compliant	No trees are proposed in the habitat area.
3	The person taking the action must ensure that GSM habitat within Reservoir Hill and Belconnen Naval Transmitting Station are separated from residential development by vehicular roads.	SLA	Compliant	<p>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.</p> <p>Access to Belconnen Naval Transmitting Station GSM habitat, and ability to influence what happens on this Defence Housing land, is not possible by ACT Government. DAWE may wish to investigate what actions Defence Housing takes in relation to GSM habitat within the Belconnen Naval Transmission Station boundary.</p>

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
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.	SLA	Compliant	<p>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.</p> <p>No measures were required during Stage 1 civil works to protect GSM habitat within Reservoir Hill as these works were downslope of the hill.</p> <p>The landscape construction works in Reservoir Hill were completed in December 2017.</p> <p>Stage 2 construction has not commenced but will be covered by a Construction Environmental Management Plan approved by the ACT Government. More information is provided under Condition 1.</p>
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.</p> <p>The EMP must address, but not necessarily be limited to:</p> <p>a. Measures to maintain or improve the quality and condition of the GSM habitat within Reservoir Hill through appropriate management actions, including, and not limited to, weed control and biomass</p>	SLA and then TCCS from 15 December 2017	Non-Compliant (Rectified)	<p>Submitted 14 June 2013 and approved 11 December 2013.</p> <p>Published on the <a href="#">ACT Environmental Offsets Register</a>:</p> <ul style="list-style-type: none"> <li>• <a href="#">Environment Management Plan for Golden Sun Moth habitat on Reservoir Hill, Lawson South</a></li> </ul> <p>The baseline survey data were included in the Environmental Management Plan (EMP), and have been used to inform monitoring and maintenance, but these data were not published within 30 days of completion (5-c-i).</p> <p>The <a href="#">2020-2021 GSM Monitoring Report</a> and the reporting on conditions within this report are taken as reporting on implementation of the EMP.</p>

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	<p>management as informed by a suitably qualified expert;</p> <p>b. Measures to prevent the access of unauthorised vehicles into the GSM habitat on Reservoir Hill, prior to, during and post construction. Measures must include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> <li>i. Temporary fences to prevent access by unauthorised vehicles;</li> <li>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</li> <li>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.</li> </ul> <p>c. Details of a baseline survey of the quality and condition of the GSM habitat within Reservoir Hill to be conducted by a suitably qualified expert during an optimal ecological time prior to the commencement of construction within GSM habitat within Reservoir Hill. The survey information, specifically the baseline data, must:</p> <ul style="list-style-type: none"> <li>i. Be published and maintained on the person taking the action's website within 30 days of the surveys being</li> </ul>			

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	<p>completed. The baseline data must be sufficient to enable the active monitoring and maintenance of the GSM values; and</p> <p>ii. Be used to ensure that the GSM habitat quality and condition are maintained or improved as required by Condition 5) a)</p> <p>d. Details of <b>an annual monitoring survey</b> to determine the quality and condition of the GSM habitat within Reservoir Hill to be conducted by a suitably qualified expert during an optimal ecological time. The first annual survey must be undertaken within one year of commencement of construction within GSM habitat within Reservoir Hill. Annual monitoring surveys must continue to be undertaken unless cessation is agreed to in writing by the Minister;</p> <p>e. Details of corrective actions to be undertaken should the monitoring required in Condition 5) d) indicate a decline, as determined by a suitably qualified expert, in the quality or condition of the GSM habitat within Reservoir Hill; and</p> <p>Details of the administration arrangements for the measures referred to in Conditions 5) a) to 5) e).</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.	SLA and TCCS from 15 December 2017	Compliant	The original signage included information on the GSM but did not include information on threats to the GSM and ecological values of the sites.

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	<p>The signage must:</p> <ol style="list-style-type: none"> <li>contain information on the ecological values being retained and the threats to these values; and</li> <li>be maintained so that the information remains accessible, with signs to be replaced or updated as required.</li> </ol>			<p>New signage was installed 01<sup>st</sup> July in 2021 to address compliance:</p> <ul style="list-style-type: none"> <li>There are 5 signs located around Reservoir Hill on entrance paths</li> <li>Signs include information on the GSM life cycle, threats, and ecological values based of professional advice, including how the reserve is being managed to look after these values and manage these threats</li> <li>Information on the new signs was sent to DAWE's environment compliance team on 24<sup>th</sup> August 2021</li> </ul>
7	<p>The person taking the action must ensure that, during the management of the Outer Asset Protection Zone (OAPZ):</p> <ol style="list-style-type: none"> <li>Grass and other flora is not slashed to a height less than 300mm above the ground</li> <li>The removal or movement of rocks to facilitate the slashing of grass and other flora is prevented</li> <li>The slashing of grass and other flora be restricted to occurring within the OAPZ</li> <li>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</li> <li>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</li> </ol>	SLA and TCCS from 15 December 2017	Not applicable	<p>In 2015/2016 the site was assessed by the ACT PCS Fire Management Unit (FMU) and deemed unnecessary for it to become a OAPZ and require management as an OAPZ at the time. The FMU and Emergency Services Agency conduct inspections and audits as required to assess whether Asset Protection Zones are necessary. Nevertheless, due to the drought year, biomass management for fire reduction was not required.</p> <p>This land in the OAPZ identified in this approval belongs to the Defence Housing Association (Australian government), is fenced, and cannot be slashed or managed by TCCS (ACT Government). DAWE may wish to investigate what actions Defence Housing takes in relation to GSM habitat within the Belconnen Navel Transmission Station boundary. DAWE may also wish to revisit the conditions of approval they have put on this approval, as they are not able to be fulfilled by the approval holder.</p>

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	<p>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</p> <p>g. Slashing or any other biomass management must not be undertaken:</p> <ul style="list-style-type: none"> <li>i. When the use of vehicles or machinery could result in the churn or compaction of soil due to high levels of soil moisture</li> <li>ii. During peak times of significant weed seeding as determined by a suitably qualified expert</li> </ul> <p>When GSM are flying or within two days of when GSM have been flying, as determined by a suitably qualified expert.</p>			
8	<p>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.</p> <p>This information must be published and maintained on the person taking the action's website within 30 days after the completion of surveys.</p>	SLA and TCCS from 15 December 2017	Not applicable	As above, Condition 7.

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
9	The person taking the action must control weed species detected in the baseline ecological survey required by Conditions 5) c) 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.	SLA then TCCS from 15 December 2017	Compliant	<p>Weed control activities are undertaken as per the EMP and ecological advice.</p> <p>Plans for an ecological burn to reduce thatch were unable to be delivered due to climate conditions and timing. This burn is still planned for as soon as conditions are right. Mechanical removal of thatch was deemed too unsafe with available machinery.</p> <p>Specialist weed control contractors were engaged to:</p> <ul style="list-style-type: none"> <li>• Target spraying was conducted 19-28 September 2020 - Treatment of Serrated tussock (<i>Nassella trichotoma</i>) (ST), Chilean needle grass (<i>Nassella neesiana</i>) (CNG), African love grass (<i>Eragrostis curvula</i>) (ALG) and St John's Wort (<i>Hypericum perforatum</i>) (SJW).</li> <li>• Target spraying was conducted 5-7 May 2021 - Treatment of Serrated tussock, Chilean needle grass and African love grass. Mapping of St John's Wort, Paterson curse and Saffron thistle.</li> </ul> <p>Mowing at 300mm was conducted in September 2020 and June 2021. A mow around the path network and fire areas was done end of February 21. Further mowing due in August.</p>
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 ecological assessment using a suitably qualified expert. The ecological assessment must be undertaken at an optimal ecological time no	SLA then TCCS from 15 December 2017	Not applicable	Not applicable. See Condition 7.

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	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.			
11	<p>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. The Restoration Plan must include, but not necessarily be limited to:</p> <ol style="list-style-type: none"> <li>a. Required or adaptive changes to existing management activities;</li> <li>b. Active management actions to restore the ecological condition to the baseline and the extent identified within the baselines surveys, including, objectives, performance criteria and management responsibilities; and</li> </ol> <p>Protocols for ongoing monitoring and reporting.</p>	SLA then TCCS from 15 December 2017	Compliant	<p>The <a href="#">2017-18 monitoring report</a> showed a general decline in GSM habitat in Reservoir Hill. In summer 2018-19, GSM habitat was re-surveyed by PCS on behalf of TCCS to assess ecological condition of GSM habitat in Reservoir Hill. This assessment was provided to TCCS in April 2019, indicating a potential decline in habitat quality and condition for GSM. (Internal report between PCS and TCCS, not published online).</p> <p>Further monitoring by a contractor in December 2019 (<a href="#">2019-2020 Monitoring Report</a>) showed that while GSM on the habitat at Reservoir Hill had remained relatively stable since 2012, combined native food cover was below the desirable range and had declined since 2012. Such declines over these periods may reflect the below average rainfall experienced over these years.</p> <p>Monitoring in 2020 (<a href="#">2020-2021 Monitoring Report</a>) concluded that the GSM population remains stable yet sparse due to there being less than ideal food range for the species. The increased rainfall in 2020 saw an overall increase in food production across all transects during 2020.</p> <p>The 2019 report indicated that original ranges suggested in the EMP were not achievable at Reservoir Hill due to the physical characteristics of the site <i>and that these targets should be revised</i>. The EMP has not been revised to date.</p>

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
				<p>Adjustments to the mowing regime are made each year in line with suggestions by suitably qualified professionals who undertake the monitoring reports.</p> <p>No restoration plan has been produced.</p> <p>Monitoring reports are published on the <a href="#">ACT Environmental Offsets Register</a>:</p> <ul style="list-style-type: none"> <li>• <a href="#">Monitoring of Golden Sun Moth <i>Synemon plana</i> and its habitat at Reservoir Hill 2020-21</a></li> <li>• <a href="#">Monitoring of Golden Sun Moth <i>Synemon plana</i> and its habitat at Reservoir Hill 2019-20</a></li> <li>• <a href="#">Monitoring of Golden Sun Moth <i>Synemon plana</i> and its habitat at Reservoir Hill 2017-18</a></li> <li>• <a href="#">Monitoring of Golden Sun moth <i>Synemon plana</i> and its habitat at Reservoir Hill 2016-17</a></li> </ul>
12	<p>To compensate for the 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.</p> <p>The Offset Strategy must include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> <li>Administration arrangements to conserve, in perpetuity, the Macgregor West offset area;</li> <li>Provision of not less than \$972,000 (GST exclusive) to facilitate management of the Macgregor West offset area including estimated</li> </ul>	SLA	Compliant	<p>The <a href="#">Lawson Offset Strategy</a> was submitted on 14 June 2013 and approved on 11 December 2013.</p> <p>All details are included in the Offset Strategy.</p> <p>Funding has been secured to manage the offset site in perpetuity. Prior to 2019, over the life of the approval decision this amount was \$1.9M. Ongoing funding to manage the site in perpetuity was \$69,000.</p> <p>A further capital investment of approximately \$200,000 over two years (20/21 and 22/23) was approved by Treasury as part of a larger investment in offsets in the region.</p>

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	<p>timeframes, budgets and ongoing operational costs;</p> <p>The process and timing for incorporating the Macgregor West offset area within the ACT Nature Reserve System;</p> <p>Results of surveys undertaken by a suitably qualified expert at an optimal ecological time to demonstrate the extent of GSM habitat in the Macgregor West offset area; and</p> <p>A map that defines the extent of NTG and habitat for the GSM habitat in the Macgregor West offset area as a result of Condition 12d).</p> <p>The approved offset strategy must be implemented and be published and maintained on the person taking the action's website.</p>			<p>Further funding has been sought in a 2021-2022 business case for continued long term management of the site and to meet <a href="#">Offset Management Plan</a> objectives for Jarramlee and West Macgregor Nature Reserves in the 21/22 budget. This budget is expected to be handed down in late August or September depending on the current COVID-19 situation.</p>
13	<p>To manage the Macgregor West Offset area, the person taking the action must develop an Offset Management Plan (OMP), for approval by the Minister.</p> <p>The OMP must include but not necessarily be limited to:</p> <ol style="list-style-type: none"> <li>A map that clearly defined the locating and boundaries of the offset area including offset attributes and shapefiles;</li> <li>Measures to conserve, in perpetuity, the Macgregor West offset area as habitat for the GSM and NTG;</li> <li>Details of administrative arrangements;</li> <li>Details of an appropriate monitoring program to be undertaken by a suitably qualified expert, including aims, methodology and</li> </ol>	PCS	Compliant	<p>The <a href="#">Jarramlee Offset Management Plan</a> was submitted on 14 June 2013 and approved on 11 December 2013.</p> <p>Jarramlee is now part of the Gooromon Grasslands that comprises Jarramlee and West Macgregor nature reserves and the adjacent offset area known as Lot 2 Wallaroo Rd in NSW. These areas form part of the offset requirements for the approved West Belconnen Strategic Assessment. Due to this, a new OMP plan for <a href="#">The Gooromon Grasslands</a> was produced and approved at the end of 2018. This supersedes the 2013 Jarramlee Offset Management Plan.</p> <p>Gooromon Grasslands Offset Management Plan 2018-2023_version 2 was submitted to the Commonwealth in May 2021. This version is not a revision of the OMP, but includes additional information regarding a subsidence area and associated remediation. These were included so</p>

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	<p>reporting, to determine whether the GSM and NTG values have degraded at the Macgregor West offset area.</p> <p>e. Details of contingency measures should the monitoring required by Condition 13d determine that the GSM and NTG values have degraded at the Macgregor West offset area. The OMP must be submitted to the Minister for approval by 1 July 2013. The approved OMP must be implemented.</p>			<p>that the remediation of this area could be undertaken within the reserve. This has been done in consultation with various partners and stakeholders. This document is currently in review by the Commonwealth, and will be published online on the offsets Register once approved.</p>
14	<p>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.</p> <p>The AOS must include, but not necessarily be limited to:</p> <p>(The AOS must be implemented within 12 months of the date of the approval of the AOS).</p> <p>a.</p> <p>i. Details of the proposed additional offset including acquisition and management of land containing an unsecured population of GSM; and/or</p>	SLA then TCCS from 15 December 2017	Not applicable	No restoration plan has been produced.

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	<ul style="list-style-type: none"> <li>ii. Details of the proposed additional offset including funding arrangements and proposed measures that demonstrably improve GSM habitat at another site; and</li> <li>iii. Details of the proposed additional offset including details of an administrative arrangements including timeframes, responsibilities, and accountabilities.</li> <li>b. Details of an appropriate monitoring program to be undertaken by a suitably qualified expert including aims, methodology, reporting, to determine whether the values at the proposed sit(s) in Condition 14a) are improved;</li> <li>c. Contingency measures should the monitoring determine that the values are not improved by the management measures; and</li> </ul> <p>Details how the proposed funding and management aligns with (and does not duplicate) the existing Offset Strategy as required by Condition 12).</p>			
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.	SLA	Compliant	The Commonwealth Government were 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	SLA, PCS and TCCS	Compliant	Records are being maintained on the appropriate government file systems.

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	Plan and any other report, strategies, agreements however described required by this approval, and make them available upon request to the department. Such records may be subject to audit by the department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the department's website. The results of audits may also be publicised through the general media.			
17	By 30 August of each after 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.	SLA, PCS and TCCS	Non-Compliant (rectified)	<p>This report fulfils part of the requirement of Commitment 17 to produce and publish a report addressing compliance with the approval conditions. There is likely to be a delay to publishing this report due to impacts of COVID-19 lockdowns and quarantines on the ACT Government. Publication expected early September.</p> <p>This report fulfils part of the requirement of condition 17 to report on the implementation of the Offset Management Plan for Jarramlee (see section 3 of this report).</p> <p>The <a href="#">2020-2021 GSM Monitoring report</a> reports on the post-construction implementation requirements of the EMP for Reservoir Hill.</p> <p>Monitoring reports are published on the <a href="#">ACT Environmental Offsets Register</a>:</p> <ul style="list-style-type: none"> <li>• <a href="#">2013-14 Report</a>: published 20<sup>th</sup> Jan 2015</li> <li>• <a href="#">2014-15 Report</a>: published 9<sup>th</sup> May 2016</li> <li>• <a href="#">2015-16 Report</a>: published 16<sup>th</sup> Dec 2016</li> <li>• <a href="#">2016-17 Report</a>: published 21<sup>st</sup> Dec 2017</li> </ul>

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
				<ul style="list-style-type: none"> <li>• <a href="#">2017-18 Report</a>: published 17<sup>th</sup> Jan 2019</li> <li>• <a href="#">2018-19 Report</a>: published 3<sup>rd</sup> Oct 2019</li> <li>• <a href="#">2019-20 Report</a>: published 8<sup>th</sup> Oct 2020</li> </ul>
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. The independent auditor must be approved by the Minister and the audit report must address the criteria to the satisfaction of the Minister.	SLA, PCS and TCCS	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.	SLA, PCS and TCCS	Compliant	<p>The Jarramlee Offset Management Plan has been revised under the <a href="#">Gooromon Grasslands Offset Management Plan</a> to fulfil commitments within the <a href="#">West Belconnen Strategic Assessment</a> (WBSA). Commitments for <i>both</i> the <b>WBSA</b> and the <b>Lawson approval decisions</b> are within this single OMP, which was approved at the end of 2018 and is available on the <a href="#">ACT Environmental Offsets Register</a>. It is currently being revised in consultation with stakeholders and DAWE.</p> <p>Riverview Project (ACT) Pty Ltd is the approval holder of the WBSA. The Ginninderry Development team manages the WBSA on behalf of Riverview. The Ginninderry Conservation Trust manages all environmental land within the WBSA that is not managed by the PCS – PCS manages the Jarramlee Offset area and the West Macgregor Offset area.</p>
20	If the Minister 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 Minister may	SLA, PCS and TCCS	Not applicable	No request has been made.

Condition Number	Condition	Responsibility	Compliant / Non-compliant / Not applicable	Description
	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 Minister's written approval.			
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.	SLA	Not applicable	Action commenced on 12 September 2013 and substantially commenced by January 2014.
22	Unless otherwise agreed to in writing by the Minister, 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 website within 30 days of being approved.	SLA, PCS and TCCS	Compliant	The new <a href="#">Gooromon Grasslands Offset Management Plan</a> was published online within 30 days of approval.  Plans are published on the <a href="#">ACT Environmental Offsets Register</a> and <a href="#">website</a> .  Monitoring reports are published on the <a href="#">ACT Environmental Offsets Register</a> and <a href="#">website</a> .

### 3. Implementation of the Offset Management Plan

The following table describes how the ACT Parks and Conservation Service (Environment, Planning and Sustainable Development Directorate) has undertaken the management actions described within the Offset Management Plan (OMP) for the 2020-21 reporting season on behalf of the Suburban Land Agency (the proponent). Please note the relevant OMP for the Jarramlee offset is the new Gooromon Grasslands OMP 2018-2023, which covers other offset areas not relevant to this report (West Macgregor and Lot 2 Wallaroo Road). The Jarramlee Offset Management Plan was revised under the [Gooromon Grasslands Offset Management Plan](#) to fulfil commitments within the [West Belconnen Strategic Assessment](#) (WBSA) which incorporated Jarramlee. Commitments for *both* the **WBSA** and the **Lawson approval decisions** are within this single OMP, which was approved at the end of 2018 and is available on the [ACT Environmental Offsets Register](#). Riverview Projects (ACT) Pty Ltd is the approval holder of the WBSA, while the ACT Government and the SLA is the approval holder for the Lawson south Development.

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
<b>Mitigation of public land use impacts</b>	<ol style="list-style-type: none"> <li>1. Activity Declarations (which are notifiable instruments under the Nature Conservation Act 2014) must be brought into effect for the ACT offset sites (Jarramlee and West Macgregor);</li> <li>2. Activity Declaration signage must be displayed at the entrance into these sites.</li> </ol>	2019/20	3 x activities declaration and reserve entry signage were installed this year at the entrance to the Jarramlee site. West Macgregor is still under a rural lease and is a closed reserve, so no signs are at the entrance to this reserve.
<b>Integration with the Canberra Nature Park Plan of Management</b>	<ol style="list-style-type: none"> <li>1. Manage the ACT offset sites (Jarramlee and West Macgregor) as part of Canberra Nature Park in accordance with the relevant ACT legislation, policy, strategies and plans outlined in Figure 2 [of the Gooromon Grassland Offset Management Plan]</li> </ol>	On-going requirement	The new Gooromon Grasslands Offset Management Plan has been accepted and is guiding current works in Jarramlee Offset area. Offset commitments in West MacGregor have been finalised although the site is managed as a Nature Reserve under a rural lease. The Canberra Nature Park Management Plan is out in draft form – actions are reflected between this and the Offset Management Plan.
<b>NSW land zoning and Biodiversity Stewardship Agreement</b>	<ol style="list-style-type: none"> <li>1. The land will be rezoned as Zone E2 Environmental Conservation under the Yass Valley Local Environment Plan 2013</li> <li>2. A Biodiversity Stewardship Agreement (BSA) will be established over the land under the provisions of the NSW</li> </ol>	-	<i>This activity is not relevant to the Jarramlee offset site</i>

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
<b>Engagement with local Aboriginal people</b>	<p style="text-align: center;">Biodiversity Conservation ACT (BC Act)</p> <p>Work with the Healthy Country Programs team and Murumbung Yurung Murra Rangers to:</p> <ol style="list-style-type: none"> <li>1. Implement the Ngunnawal Cultural Landscape Project: - incorporating cultural heritage / traditional ecological knowledge and Aboriginal land management practices.</li> <li>2. Implement the Ngunnawal Reserve Naming Project.</li> </ol>	2022/23	<p>PCS engages with the Healthy Countries Team and Traditional Owners on identified projects.</p> <p>Agenda item at the Dhawura Ngunnawal Committee meeting on February 2021. Following meeting Committee requested a site visit to Jarramlee which took place on 4th March 2021. Discussion points included establishment of the Golden Sun Moth research project and related treatments, planned ecological burning, plans for erosion, restoration, and other land management works.</p> <p>Murumbung Yurung Murra team members attended the ecological burns as primary lighting crew, implemented on 1<sup>st</sup> April 2021. Burns were completed as a treatment for the Golden Sun Moth research plots and in paddock one to reduce high biomass growth to enhance Golden Sun Moth habitat and improve and connect areas of natural temperate grassland.</p> <p>'Jobs for Canberra' ACT Govt COVID initiative employed Ngunnawal Rangers for a period of almost 12 months during 2020-21. Two Ngunnawal staff undertook land management activities at Jarramlee Nature Reserve during 4 months of the program period. This period coincided with the Dhawura Ngunnawal committee visit to Jarramlee and these Rangers were included in that visit.</p>
<b>Management of heritage values</b>	<ol style="list-style-type: none"> <li>1. Follow the guidelines outlined in the Cultural Heritage Reporting Policy. This document details the cultural assessment and reporting requirements for projects that may impact on places or objects with</li> </ol>	On-going	The ACT Heritage unit will be consulted as necessary for future projects including restoration works.

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
	<p>indigenous or historic heritage value.</p> <p>2. Any discovery of an Aboriginal place or object will be reported to the Heritage Council within five working days.</p>		<p>Guidelines are being followed.</p> <p>New stock yards installed during 2020-21 had heritage clearance and were identified as works on submission to the Dhawura Ngunnawal Committee for their information. Installation did not disturb the ground and was installed in accordance with heritage directions to avoid known artefact sites and ecological values.</p>
<b>Bushfire risk mitigation</b>	<p>ACT sites (Jarramlee and West Macgregor):</p> <p>1. During the ACT fire season (October-March, subject to seasonal variation), maintain biomass to ACT Bushfire Management Standards, within the prescribed Regional Fire Management Zones, under the ACT Strategic Bushfire Management Plan (2014-2019) (SBMP).</p> <p>2. Any changes with management practices required following the review of the SBMP must be implemented.</p> <p><i>Other points relate to NSW site and have not been included in this table</i></p>	On-going	<p>Biomass has been maintained to ACT Bushfire Management Standards.</p> <p>Guidelines and plans are being followed.</p> <p>Good seasonal conditions experienced during 2020-21 following the end of the prolonged dry period resulted in strong biomass growth. Low stock numbers post drought meant that additional fire breaks were slashed during the bushfire season. When stock became available grazing management was undertaken, keeping in line with requirements for ecological species management. Biomass methods of slashing, grazing and burning have been employed during the year to bring higher fuel loads into prescription ahead of the 2021-22 fire season.</p>
<b>Utility notifications</b>	1. Adhere to the Code of Practice between PCS and ActewAGL	On-going	The Code of Practice is being adhered to.
<b>Annual reporting</b>	1. Fulfil all reporting commitments as identified in the WBSA [West Belconnen Strategic Assessment] and Jarramlee offset approvals	On-going and Annually by 30 <sup>th</sup> August	This report fulfils the reporting requirements.

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
<b>Offset Management Plan review</b>	1. The Gooromon Grasslands OMP will be reviewed and updated in 2023	31 <sup>st</sup> December 2023	Not applicable this reporting period. A small revision to the OMP is currently in consultation with the Commonwealth.
<b>Manage Pest Plants</b>	<ol style="list-style-type: none"> <li>1. Continue the existing pest plant control program at Jarramlee and develop targeted control programs for West Macgregor and Lot 2 Wallaroo Road</li> <li>2. Funding may be included to seek advice from experts on novel weed control options.</li> <li>3. Carry out regular field investigations to identify the location of any pest plant incursions within the Gooromon Grasslands</li> <li>4. Coordinate the implementation of pest plant control programs across sites that contain common species</li> <li>5. Maintain accurate records for all pest plant control programs</li> <li>6. PCS and SLA staff and contractors will continue to utilise the ArcGIS Collector application when undertaking weed control activities; to gather data on the presence and extent of different weed species, as well as the area within which weed species are being controlled.</li> </ol>	Annually	<p>Weed control was undertaken for St John's wort, Chilean Needle Grass, Serrated Tussock, African Love Grass, Saffron Thistle, Blackberry and other woody weeds at Jarramlee and West Macgregor and in surrounding buffer zones. Priority was given to protecting high priority sites including NTG and holding paddocks.</p> <p>Lot 2 Wallaroo Rd is currently managed for weeds by the Ginninderry Conservation Trust.</p> <p>Follow up pest plant management has been undertaken across Jarramlee and West Macgregor again in 2020-21. Good seasonal conditions post drought resulted in the emergence of saffron thistle in some areas in Jarramlee. Regular field investigations identified the issue early. Chemical treatment was employed to address the germination and some areas were slashed to inhibit growth to seeding, particularly focusing near to high value NTG areas.</p> <p>A weed control program was undertaken to address invasive grasses, St John's wort, woody weed species and Chilean needle grass in identified containment areas. Weed buffers were also treated to minimise weed spread, including within the equestrian trail which traverses the site.</p> <p>Pre-treatment and post treatment records were captured on ACT Government apps including 'Collector'. These records inform</p>

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
			treatment strategies and help to target follow up year on year.
<b>Manage Pest Animals</b>	<ol style="list-style-type: none"> <li>1. Continue the existing rabbit control program at Jarramlee and develop targeted control programs for West Macgregor and Lot 2 Wallaroo Road</li> <li>2. Carry out regular field investigations to identify the location of any active rabbit warrens within the Gooromon Grasslands</li> <li>3. Continue to conduct bi-annual (autumn and spring) nocturnal transect surveys for rabbits across Gooromon Grassland sites</li> <li>4. Incorporate the Dunlop Grasslands Nature Reserve within the rabbit survey and control program as is required (determined by survey results)</li> <li>5. Programs should be co-ordinated across all offsets and the Dunlop Grasslands Nature Reserve maintain accurate records for all pest animal control programs.</li> <li>6. PCS staff and contractors will continue to utilise the ArcGIS Collector application when undertaking control activities; to gather data on the presence and extent of rabbit warrens, document control sites and record control methods.</li> </ol>	On-going	Seasonal rabbit monitoring is ongoing at Jarramlee. Spot lighting is conducted in spring and autumn to monitor rabbit and other pest species numbers and is part of the broader district Rabbit Control Program. Treatment is applied if monitoring results reach control point. Lot 2 Wallaroo Rd isn't currently included in the district control program as this is managed by Ginninderry Trust.
<b>Manage appropriate biomass disturbance regime</b>	<ol style="list-style-type: none"> <li>1. NTG, native pasture and GSM habitat patches will be maintained in accordance with the Jarramlee Grazing Management Plan and feed budgets developed by Alcock (2018)</li> <li>2. <i>Not relevant to Jarramlee</i></li> </ol>	On-going	Biomass is managed to appropriate levels via a strategic grazing plan. Agistment licence holder works in collaboration with PCS to achieve desired outcomes. Biomass is assessed and managed to appropriate levels via strategic grazing management experts.

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
	<ol style="list-style-type: none"> <li>3. <i>Not relevant to Jarramlee</i></li> <li>4. Biomass records will be maintained within the 'feed budgeting tool' format for management and reporting purposes; with field monitoring scheduled quarterly (or after significant rainfall events)</li> <li>5. Grazing licence and lease arrangements at Jarramlee and West Macgregor will remain in effect during this plan period to provide a secure disturbance mechanism to manage biomass</li> <li>6. Slashing will be used in place of grazing (where logistically feasible) to manage biomass within the Chilean Needle Grass (CNG) Dominant GSM Habitat Zone.</li> <li>7. Implement ecological burns (subject to appropriate approvals, weather and monitoring programs).</li> </ol>		<p>Field monitoring of biomass attributes is undertaken annually by the Offsets ecology team. Throughout the year monthly assessments are also undertaken to inform biomass management. Due to good seasonal conditions experienced during 2020-21, strong biomass growth has been manipulated by employing fire (ecological burning), slashing, mowing (and catching thatch), as well as grazing management across Jarramlee and West Macgregor.</p> <p>Good working relationships with the stockagistee and dedication of the field staff has greatly assisted in achieving our desired outcomes.</p> <p>Ecological burn was completed in paddock 1. Offsets operational staff and Murrumbung team members successfully implemented this burn in Autumn 2021.</p>
<b>Manage identified human land use impacts</b>	<p>Implement land management activities adjacent to land subsidence exclusion points at Jarramlee:</p> <ol style="list-style-type: none"> <li>1. Reinstate management to the area (approximately 3 ha) that has been cleared for full access</li> <li>2. Continue to exclude vehicle access to the remaining (approximately 3 ha) exclusion zone (subject to future clearances)</li> <li>3. Following stock fencing upgrades around the identified subsidence holes (see Capital Works Activities) reinstate pest plant and pest animal control programs (delivered on</li> </ol>	<p>On-going</p>	<p>Subsidence paddock has been fenced off from the larger 6 ha site, as opposed to erecting stock fences around each subsidence point. Stock can now graze other part of the larger block.</p> <p>Weeds are only being controlled in the grazed area of the subsidence paddock.</p> <p>The design for the subsidence remediation has been completed (during 2020-2021). The DA process is underway ahead of the construction and rehabilitation phases in 2021-22. These works will include the construction of a swale and site rehabilitation includes Golden Sun Moth food plant species.</p>

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
	foot) and grazing within the remaining (approximately 3 ha) exclusion zone (subject to future clearances).		
<b>Integrated threat management within adjacent reserves</b>	1. Integrate Dunlop Grasslands Nature Reserve into coordinated threat management programs (pest plant control, pest animal control and biomass management)	On-going	Weed and pest animal programs are integrated into CNP North district works for efficiency gains. Different agistment licence holders graze across this matrix, so this land management function isn't wholly integrated.
<b>Grazing infrastructure</b>	<ol style="list-style-type: none"> <li>1. <i>Not relevant to Jarramlee</i></li> <li>2. <i>Not relevant to Jarramlee</i></li> <li>3. <i>Not relevant to Jarramlee</i></li> <li>4. Install fencing around the known subsidence holes at Jarramlee that will support livestock grazing within the 3 ha exclusion zone</li> <li>5. Maintain all existing grazing infrastructure within the Gooromon Grasslands offset sites</li> </ol>	<p>4: 2018/19</p> <p>5: As required</p>	<ol style="list-style-type: none"> <li>4. Fencing at this site has been maintained.</li> <li>5. Flood waters damaged flood gates and fences. A flood gate and section of fence were replaced, and other flood gates were maintained. A set of stock yards were installed to improve stock management to and from the site. Relevant heritage and ecological records were considered for site selection prior to installation. General maintenance to fence infrastructure was undertaken throughout the year.</li> </ol>
<b>Tracks and trails</b>	<ol style="list-style-type: none"> <li>1. <i>Not relevant to Jarramlee</i></li> <li>2. Maintain all existing tracks and trails within the Gooromon Grasslands offset sites.</li> </ol>	On-going	All trails and tracks are maintained as required.
<b>Increase the extent of Natural Temperate Grassland of the South Eastern Highlands</b>	<ol style="list-style-type: none"> <li>1. The extent of NTG at Jarramlee (measured at 6.8 hectares in spring 2017) will be increased to at least 7.6 hectares over the life of the approval decision</li> <li>2. A restoration project will be implemented within a designated 1.5 hectare restoration zone (Native Pasture Buffer/Restore Zone 3) surrounding existing NTG remnants</li> <li>3. The targets for the subsequent OMP</li> </ol>	30 <sup>th</sup> September 2032	<p>Actions to improve or maintain the natural temperate grassland at Jarramlee include:</p> <ul style="list-style-type: none"> <li>• Regular field inspections to record emergence of forb species as indicators of higher value condition to improve, expand and connect other mapped areas of NTG.</li> <li>• Inspections also informed the timing around other biomass manipulations (including mowing with catchers to remove</li> </ul>

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
	<p>period is a minimum of 0.3 hectare increase in NTG extent, delivered by increasing the cover of 'non-grass native species or indicator species' in line with the approach outlined in 5.1.3</p> <p>4. Individual project plans will be developed for all restoration works</p>		<p>thatch) to favour native species emergence and minimise exotic pasture dominance in identified zones.</p> <ul style="list-style-type: none"> <li>• Establishment and maintenance of 13 seed nodes, which include the addition of native grass and forb tube stock and seed.</li> <li>• Autumn ecological burn completed in paddock 1.</li> <li>• Planting of wet lines with Carex and Poa species identified under definition of NTG for these environments.</li> <li>• Continued engagement with the Dhawura Ngunnawal Committee to identify if the scrape restoration technique is acceptable in Jarramlee. This technique was rejected as a treatment in the Golden Sun Moth research project. Soil pads was the preferred treatment for this project.</li> </ul>
<b>Increase the extent of Golden Sun Moth (<i>Synemon plana</i>) habitat</b>	<i>Not relevant to Jarramlee</i>	-	Not applicable to Jarramlee, but see 'Other actions' table in Section 4 for actions that have occurred to help increase GSM extent despite this not being a specific requirement.
<b>Riparian restoration strategy</b>	<ol style="list-style-type: none"> <li>1. Immediate works required to address instances of streambank erosion, in particular along Ginninderra Creek, will be delivered as part of this OMP. This will include engaging a suitably qualified expert to develop a plan to address priority restoration requirements.</li> <li>2. Deliver riparian restoration plan</li> <li>3. <i>Relevant to future OMPs only</i></li> </ol>	<ol style="list-style-type: none"> <li>1. 2018/19</li> <li>2. 2022/23</li> </ol>	<p>Local Land Services were engaged in 2018-19 FY to undertake restoration work on Ginninderra Creek in order to protect the riparian corridor at GSM habitat. This work was completed and went well and further work is planned over the next few FY's.</p> <p>Site visits with qualified technicians to scope works for re-enforcing the streambank at the confluence of Ginninderra Creek and Gooromon Pond Creek were conducted during the 20-21 year. A tender process was undertaken to secure a suitably qualified contractor and a contract awarded.</p>

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
			Due to the high flow from the urban catchment into this system after rainfall and the good seasonal conditions experienced during 2020-21 this work was unable to be scheduled. Funding has been reprofiled for these works to be completed when conditions permit in 2021-22.
<b>GSM habitat and NTG mapping</b>	GSM habitat will be mapped within the subsidence paddock following the methods outlined in Section 6.2.3 [of the OMP]	Spring/Summer 2018 (complete)	<p>This mapping has been completed.</p> <p>The 6-ha area known as the Jarramlee subsidence paddock was mapped in June/July 2018. Original plans to map in Nov/Dec 2017 were not met due to health and safety risks.</p> <p>The final report was published on the <a href="#">ACT Environmental Offsets Register</a> in August 2021:</p> <ul style="list-style-type: none"> <li>• <a href="#">Jarramlee Subsidence Paddock Golden Sun Moth Habitat Report 2018</a></li> </ul>
<b>GSM habitat condition threshold assessment method project</b>	To assist GSM habitat and restoration planning, a GSM habitat 'condition threshold assessment method' will be developed (as described in Section 5.2.1 [of the OMP])	2019/20	Not yet due.
<b>PTWL habitat mapping</b>	<i>Not relevant to Jarramlee</i>	-	-
<b>GSM population monitoring</b>	The GSM population will be monitored in accordance with Section 6.2.4 [of the OMP]	Spring / Summer 2018 (complete), 2019 (complete), 2022	<ul style="list-style-type: none"> <li>• GSM population monitoring was undertaken at Jarramlee annually from 2016-2020. At West Macgregor and Yass Lot 2 Wallaroo Road, GSM population monitoring was undertaken annually from 2017-2020.</li> <li>• Monitoring will continue at Jarramlee annually as part of a long</li> </ul>

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
			<p>term study of the species at this site conducted by ACT Environmental Offsets., and to inform success of GSM habitat improvement experiments on the site.</p> <ul style="list-style-type: none"> <li>Monitoring data is currently being reviewed and will be reported on in the 2018/19 and 2019/20 Annual Monitoring Reports, due to be published on the Environmental Offsets Register and webpage mid 2021.</li> </ul>
<b>GSM habitat and grassland monitoring</b>	The GSM habitat and NTG will be monitored in accordance with Section 6.2.2 [of the OMP]	2018 (complete), 2019, 2022	<ul style="list-style-type: none"> <li>GSM habitat condition monitoring was completed in 2018 and 2019 and 2020 (as a component of understorey vegetation surveys) as a part of the larger ACT Government Environmental Offsets monitoring program.</li> <li>Floristics and understorey structure monitoring was undertaken in 2018 and 2019, and 2020.</li> <li>Understorey structure and weed monitoring will continue annually at the site to inform grazing, fire and other management programs.</li> </ul>
<b>Woodland bird monitoring</b>	Woodland birds will be monitored following the methods in Greening Australia (2017).	Annually	Woodland birds are being monitored by suitably qualified in-house ecologists as part the woodland bird monitoring program. This monitoring is consistently undertaken seasonally (every three months, four times a year), and was completed in 2018, 2019, 2020, and was completed in Autumn 2021.
<b>Monitoring threats</b>	PCS are committed to refining and improving the standardised methods for collecting data on operational activities and management of threatening processes. This will be undertaken	On-going	<p>Threats continue to be monitored as necessary.</p> <p>Weeds are monitored in Jarramlee and West Macgregor as part of understorey vegetation monitoring, which was undertaken in 2018,</p>

Activity	Description (from OMP)	Estimated Timeframe for Completion (as described in OMP)	Actions / Comments (from 01 July 2020 to 30 June 2021)
	in line with the implementation of the CEMP. The monitoring activities for all threats will remain subject to further amendment, based on consultation and advice from ACT Government Ecologists and Territory Officers.		2019, 2020, and will be undertaken in 2021.
<b>Water quality and frog monitoring</b>	PCS supports water quality and frog monitoring delivered under volunteer programs including Waterwatch and Frogwatch.	Annually	PCS support continued.
<b>Staff resources</b>	Staff are required to deliver the action outlined in this OMP. Staff include a Senior Ranger, Field Officer, Ecologist and Planner. Staff resources are calculated on a pro rata basis according to the level of service required to deliver the offset commitments.	On-going	Appropriate staff have been engaged to deliver on the actions outlined in the Offset Management Plan, including a Senior Ranger and a Field Officer.

#### 4. 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 / Comments
<b>Subsidence</b>	There is 3 ha of active subsidence in an area that is above the de-commissioned sewage infrastructure.	<ul style="list-style-type: none"> <li>• SMEC completed the Remedial Action Plan for Jarramlee Subsidence Site with a concept restoration design for the areas of concern and a clearance certificate enabling the return of status quo land management activities for the western three hectares of the site.</li> <li>• WSP have completed Stage 3 Design for the eastern 3 hectares of the site.</li> <li>• DA approval has been sought.</li> <li>• Further funds have been secured to commence construction in 2021-22.</li> </ul>
<b>Fox control</b>	Fox management program and scat analysis	<p>This program has been developed to assist land management decisions by assessing the threat of the European Red Fox (<i>Vulpes vulpes</i>) on MNES and other threatened species in Environmental Offsets and Nature Reserves in the ACT.</p> <p>A fox scat analysis was then undertaken through University of Canberra in order to gain an understanding of fox predation on GSM and other species – this is an ongoing project.</p>
<b>Increase the extent of Golden Sun Moth (<i>Synemon plana</i>) habitat</b>	-	<p>Wallaby grass plantings have been undertaken during Spring 2020 and Autumn 2021 to improve connectivity for Golden Sun Moth from Ginninderra Creek riparian zone across paddock 1 and the triangle paddock towards the Lot 2 block of Jarramlee.</p> <p>Golden Sun Moth habitat research project has been established in Chilean needle grass dominated area in Jarramlee. This project is led by an offsets research scientist. Treatment plots were set up with assistance from the field staff and volunteers.</p>