

Referral of proposed action

Project title: IKEA Canberra - Northern Access Road

1 Summary of proposed action

NOTE: You must also attach a map/plan(s) and associated geographic information system (GIS) vector (shapefile) dataset showing the location and approximate boundaries of the area in which the project is to occur. Maps in A4 size are preferred. You must also attach a map(s)/plan(s) showing the location and boundaries of the project area in respect to any features identified in 3.1 & 3.2, as well as the extent of any freehold, leasehold or other tenure identified in 3.3(i).

1.1 Short description

Use 2 or 3 sentences to uniquely identify the proposed action and its location.

The ACT Government, represented by the Chief Minister, Treasury and Economic Development Directorate and by Calibre Consulting, propose to construct a two lane (i.e. one lane each way) road providing access into the north of IKEA from the Mustang Avenue roundabout on Majura Road. The site of the proposed action incorporates part of Block 6, Section 9, and part of Block 5, Section 12, Pialligo, ACT. The proposed action is an important component of the infrastructure required to support commercial development (specifically IKEA Canberra) in the area.

1.2 Latitude and longitude

Latitude and longitude details are used to accurately map the boundary of the proposed action. If these coordinates are inaccurate or insufficient it may delay the processing of your referral.

location point	Latitude			Longitude		
	degrees	minutes	seconds	degrees	minutes	seconds
1. Approx. centre	35°	17'	38.7"	149°	11'	17.6"

The GIS files (.shp) for the site are provided as Attachment B.

The Interactive Mapping Tool may provide assistance in determining the coordinates for your project area.

If the area is less than 5 hectares, provide the location as a single pair of latitude and longitude references. If the area is greater than 5 hectares, provide bounding location points.

There should be no more than 50 sets of bounding location coordinate points per proposal area.

Bounding location coordinate points should be provided sequentially in either a clockwise or anticlockwise direction.

If the proposed action is linear (eg. a road or pipeline), provide coordinates for each turning point.

Also attach the associated GIS-compliant file that delineates the proposed referral area. If the area is less than 5 hectares, please provide the location as a point layer. If greater than 5 hectares, please provide a polygon layer. If the proposed action is linear (eg. a road or pipeline) please provide a polyline layer (refer to GIS data supply guidelines at [Attachment A](#)).

Do not use AMG coordinates.

1.3 Locality and property description

Provide a brief physical description of the property on which the proposed action will take place and the project location (eg. proximity to major towns, or for off-shore projects, shortest distance to mainland).

The site is located in the southeast corner of a large paddock of cattle-grazed pasture, immediately adjacent to the recently-constructed IKEA Canberra. It is located opposite the Majura Park commercial precinct, northwest of Canberra Airport and approximately 5.6 kilometres east of the Canberra city centre.

1.4	Size of the development footprint or work area (hectares)	0.6 ha is the maximum disturbance extent for the proposed development.	
1.5	Street address of the site	The action would establish a new road connecting IKEA Canberra (1030 Majura Road, Pialligo, ACT) to Majura Road at the Mustang Avenue roundabout.	
1.6	Lot description Describe the lot numbers and title description, if known.	The site includes part of Block 6, Section 9, and part of Block 5, Section 12, Pialligo, ACT. Block 6 and 9 are currently Territory land zoned NUZ1 – Broadacre, however following the impending update of cadastre information the site will become TZ1 – Transport Services Zone. Block 5 is now under IKEA Stores ownership.	
1.7	Local Government Area and Council contact (if known) If the project is subject to local government planning approval, provide the name of the relevant council contact officer.	The project is subject to Territory approval. The proponent is the Australian Capital Territory, represented by the Chief Minister, Treasury and Economic Development Directorate (CMTEDD). The Relevant CMTEDD contact for the action is Gerard Coffey, Senior Project Manager, Civil Infrastructure and Capital Works (Phone 02 6207 2471).	
1.8	Time frame Specify the time frame in which the action will be taken including the estimated start date of construction/operation.	The proponent wishes to commence the action as soon as possible (estimated by October 2016), with completion by February 2017.	
1.9	Alternatives to proposed action Were any feasible alternatives to taking the proposed action (including not taking the action) considered but are not proposed?	<input checked="" type="checkbox"/>	No
			Yes, you must also complete section 2.2
1.10	Alternative time frames etc Does the proposed action include alternative time frames, locations or activities?	<input checked="" type="checkbox"/>	No
			Yes, you must also complete Section 2.3. For each alternative, location, time frame, or activity identified, you must also complete details in Sections 1.2-1.9, 2.4-2.7 and 3.3 (where relevant).
1.11	State assessment Is the action subject to a state or territory environmental impact assessment?	<input type="checkbox"/>	No
		<input checked="" type="checkbox"/>	Yes, you must also complete Section 2.5
1.12	Component of larger action Is the proposed action a component of a larger action?	<input type="checkbox"/>	No
		<input checked="" type="checkbox"/>	Yes, you must also complete Section 2.7
1.13	Related actions/proposals Is the proposed action related to other actions or proposals in the region (if known)?	<input type="checkbox"/>	No
		<input checked="" type="checkbox"/>	Yes, provide details:
1.14	Australian Government funding Has the person proposing to take the action received any	<input checked="" type="checkbox"/>	No
		<input type="checkbox"/>	Yes, provide details:

Australian Government grant funding to undertake this project?

1.15

Great Barrier Reef Marine Park

Is the proposed action inside the Great Barrier Reef Marine Park?

X
<input type="checkbox"/>

No

Yes, you must also complete Section 3.1 (h), 3.2 (e)

2 Detailed description of proposed action

NOTE: It is important that the description is complete and includes all components and activities associated with the action. If certain related components are not intended to be included within the scope of the referral, this should be clearly explained in section 2.7.

2.1 Description of proposed action

This should be a detailed description outlining all activities and aspects of the proposed action and should reference figures and/or attachments, as appropriate.

The proposed action is the construction of a two lane (one lane each way) road providing access into the north of IKEA from the Mustang Avenue roundabout on Majura Road. Specifically, the proposed development will involve:

- installation of a permanent site boundary fence, within which all disturbance associated with the proposed development will be contained;
- mowing / clearance of vegetation as required prior to earthworks commencing;
- levelling, filling, and other works, required to construct the road and associated batters;
- construction of the road, culverts, kerbs and street lighting; and
- placement of topsoil and landscaping of disturbed areas.

The proposed development is illustrated in 'Figure 1. Locality Plan' and 'Figure 2. Vegetation' of the Ecological Impact Assessment undertaken by Capital Ecology (provided as Attachment A).

The proposed action will impact a small area of habitat for the Golden Sun Moth *Synemon plana* (EPBC Act critically endangered) and the Striped Legless Lizard *Delma impar* (EPBC Act vulnerable). These species are the main focus of this referral.

2.2 Alternatives to taking the proposed action

This should be a detailed description outlining any feasible alternatives to taking the proposed action (including not taking the action) that were considered but are not proposed (note, this is distinct from any proposed alternatives relating to location, time frames, or activities – see section 2.3).

The proposed development (the construction of a northern access road) is an important component of the infrastructure required to support commercial development (specifically IKEA Canberra) in the area. There are no feasible alternatives to the proposed action.

As advised during preliminary consultation with Capital Ecology, Calibre Consulting amended the development design to substantially reduce the initially proposed disturbance footprint and include the installation of a site boundary fence to define the maximum disturbance extent.

2.3 Alternative locations, time frames or activities that form part of the referred action

If you have identified that the proposed action includes alternative time frames, locations or activities (in section 1.10) you must complete this section. Describe any alternatives related to the physical location of the action, time frames within which the action is to be taken and alternative methods or activities for undertaking the action. For each alternative location, time frame or activity identified, you must also complete (where relevant) the details in sections 1.2-1.9, 2.4-2.7, 3.3 and 4. Please note, if the action that you propose to take is determined to be a controlled action, any alternative locations, time frames or activities that are identified here may be subject to environmental assessment and a decision on whether to approve the alternative.

No alternative locations, time frames or activities have been identified.

2.4 Context, planning framework and state/local government requirements

Explain the context in which the action is proposed, including any relevant planning framework at the state and/or local government level (e.g. within scope of a management plan, planning initiative or policy framework). Describe any Commonwealth or state legislation or policies under which approvals are required or will be considered against.

The relevant information is provided under 2.5 below.

2.5 Environmental impact assessments under Commonwealth, state or territory legislation

If you have identified that the proposed action will be or has been subject to a state or territory environmental impact statement (in section 1.11) you must complete this section. Describe any environmental assessment of the relevant impacts of the project that has been, is being, or will be carried out under state or territory legislation. Specify the type and nature of the assessment, the relevant legislation and the current status of any assessments or approvals. Where possible, provide contact details for the state/territory assessment contact officer.

Describe or summarise any public consultation undertaken, or to be undertaken, during the assessment. Attach copies of relevant assessment documentation and outcomes of public consultations (if available).

An Ecological Impact Assessment was undertaken by Capital Ecology (provided as Attachment A, GIS data provided as Attachment B). This assessment, utilised previous reports and surveys of the broader area: Biosis 2013, Biosis 2014a and Biosis 2014b, Attachments C, D, and E respectively. Capital Ecology determined that the proposed action was unlikely to have a significant impact upon Commonwealth and/or Territory-listed ecological values. Due to the cumulative impacts of development west of Majura Road upon the Golden Sun Moth, referral of the proposed action was recommended to provide clarification and legal certainty for the project.

As the proposed development was assessed as unlikely to have a 'significant adverse environmental impact', an application will be submitted to the ACT Conservator of Flora and Fauna for an Environmental Significance Opinion (ESO), requesting that the proposal be assessed in the Merit Track. This is to be completed pending the outcome of this referral. Should an ESO be obtained, it will be submitted along with the Development Application to the ACT Environment and Planning Directorate. Preliminary advice has been provided by the Conservator's Liaison (Helen McKeown) that this approach is acceptable. Mitigation measures requested by the Conservator have been incorporated into version of the development presented as the proposed action in this referral.

The Commonwealth and Territory approvals process for related development in the vicinity of the site is detailed in Section 2.7.

2.6 Public consultation (including with Indigenous stakeholders)

Your referral must include a description of any public consultation that has been, or is being, undertaken. Where Indigenous stakeholders are likely to be affected by your proposed action, your referral should describe any consultations undertaken with Indigenous stakeholders. Identify the relevant stakeholders and the status of consultations at the time of the referral. Where appropriate include copies of documents recording the outcomes of any consultations.

Public consultation has not been sought for the proposed action due to the small size of the development. The Development Application will be available on the ACT Environment and Planning website for the required period and open for public comment. As a major stakeholder, IKEA Stores has been consulted during the design phase of the proposed action.

2.7 A staged development or component of a larger project

If you have identified that the proposed action is a component of a larger action (in section 1.12) you must complete this section. Provide information about the larger action and details of any interdependency between the stages/components and the larger action. You may also provide justification as to why you believe it is reasonable for the referred action to be considered separately from the larger proposal (eg. the referred action is 'stand-alone' and viable in its own right, there are separate responsibilities for component actions or approvals have been split in a similar way at the state or local government levels).

The proposed development (the construction of a northern access road) is an important component of the infrastructure required to support commercial development (specifically IKEA Canberra) in the area.

The development applications submitted for commercial infrastructure west of Majura Road, their relationships, assessment pathways, and approvals, are detailed in Table 1. The four developments shown in the table were all for the purpose of providing infrastructure and support for IKEA and nearby commercial

development, and all have impacted upon the same previously contiguous area of vegetation. The IKEA development and the Spitfire Link Road were assessed separately as the IKEA proponent was a ACT Government / private industry alliance, and the link road was an ACT Government initiative to service IKEA and other commercial interests. The IKEA Store Access Road Stormwater Extension was not included as part of the original IKEA development application as the need for the extension had not been foreseen. The Telstra communications facility was not installed specifically to service IKEA and the proponent was Telstra Corporation Ltd. Nevertheless, the minimisation of impacts associated with its installation relies directly upon the link road constructed for IKEA. Each of the four developments listed required the clearance of small areas of the contiguous vegetation/habitat.

The proposed action was not considered as a component of the original IKEA impact assessment as, due to land tenure considerations, a separate Development Application was required for it. While it is recognised that this is not an ideal approach, the cumulative impacts of these related developments upon threatened species has been specifically addressed in the Ecological Impact Assessment (Capital Ecology 2016) and considered in this referral.

Table 1. Related development applications

Purpose	Significant impacts	Approval Pathway
Release of 'Majura Bulky Goods Opportunity Site' for development of IKEA Canberra		
<p>Proponent: ACT Government (ACT Land Development Agency) Purpose: Development of IKEA</p>	<p>Permanent loss of 4,871 m² (0.49 ha) of Golden Sun Moth habitat and 8,211 m² (0.82 ha) of Striped Legless Lizard habitat.</p>	<p>Commonwealth No EPBC Act referral submitted based on advice that the impact was unlikely to be significant. ACT No Environmental Impact Statement (EIS), Application for an Environmental Significance Opinion or S211 exemption was submitted for the development.</p>
IKEA Store Access Road Stormwater Extension		
<p>Proponent: ACT Government Purpose: Extension of stormwater drain required to correct stormwater drainage problems associated with the IKEA development. Relationship to other recent DAs: Directly linked to IKEA development.</p>	<p>Impact to or loss of up to 25 m² (0.0025 ha) of Striped Legless Lizard habitat.</p>	<p>Commonwealth No EPBC Act referral submitted based on advice that the impact was unlikely to be significant. ACT Environmental Significance Opinion provided on 18 June 2015 by the ACT Government Conservator of Flora and Fauna who determined that the proposal was not likely to have a significant adverse environmental impact provided the works were undertaken in accordance with conditions.</p>

Purpose	Significant impacts	Approval Pathway
Link road between Majura Parkway and Spitfire Avenue Roundabout, Majura Road, Pialligo		
<p>Proponent: ACT Government</p> <p>Purpose: Required to improve access to IKEA and other commercial development in the area.</p> <p>Relationship to other recent DAs: Directly linked to IKEA development, although also beneficial for other commercial development in the area.</p>	<p>Permanent loss of up to 0.45 ha of Golden Sun Moth habitat, and fragmentation of habitat.</p> <p>Direct loss or disturbance of up to 0.5 ha of Striped Legless Lizard habitat and indirect impacts (through fragmentation) of 4 ha of habitat.</p>	<p>Commonwealth</p> <p>EPBC Act referral submitted for legal certainty. Determined to be not a controlled action on 24 July 2015 (i.e. no assessment under the EPBC Act required and no conditions imposed).</p> <p>ACT</p> <p>Environmental Significance Opinion provided on 27 August 2015 by the ACT Government Conservator of Flora and Fauna who determined that the proposal was not likely to have a significant adverse environmental impact provided the works were undertaken in accordance with conditions.</p>
Telstra Telecommunications Facility, Pialligo ACT		
<p>Proponent: Urbis Pty Ltd on Behalf of Telstra Corporation Limited</p> <p>Purpose: Required to improve 3G and 4G communication services to the Canberra International Airport, Majura Park and IKEA.</p> <p>Relationship to other recent DAs: Indirectly linked to commercial infrastructure west of Majura Road.</p>	<p>Permanent clearance of Golden Sun Moth habitat, and Striped Legless Lizard habitat - maximum of 84 m² (0.0084 ha).</p>	<p>Commonwealth</p> <p>No EPBC Act referral submitted based on advice that the impact was unlikely to be significant.</p> <p>ACT</p> <p>Environmental Significance Opinion provided on 30 September 2015 by the acting ACT Government Conservator of Flora and Fauna who determined that the proposal was not likely to have a significant adverse environmental impact provided the works were undertaken in accordance with conditions.</p>

3 Description of environment & likely impacts

3.1 Matters of national environmental significance

Describe the affected area and the likely impacts of the proposal, emphasising the relevant matters protected by the EPBC Act. Refer to relevant maps as appropriate. The interactive map tool can help determine whether matters of national environmental significance or other matters protected by the EPBC Act are likely to occur in your area of interest.

Your assessment of likely impacts should refer to the following resources (available from the Department's web site):

- specific values of individual World Heritage properties and National Heritage places and the ecological character of Ramsar wetlands;
- profiles of relevant species/communities (where available), that will assist in the identification of whether there is likely to be a significant impact on them if the proposal proceeds;
- *Significant Impact Guidelines 1.1 – Matters of National Environmental Significance*; and
- associated sectoral and species policy statements available on the web site, as relevant.

Your assessment of likely impacts should consider whether a bioregional plan is relevant to your proposal. The Minister has prepared four marine bioregional plans (MBP) in accordance with section 176. It is likely that the MBP's will be more commonly relevant where listed threatened species, listed migratory species or a Commonwealth marine area is considered.

Note that even if your proposal will not be taken in a World Heritage area, Ramsar wetland, Commonwealth marine area, the Great Barrier Reef Marine Park or on Commonwealth land, it could still impact upon these areas (for example, through downstream impacts). Consideration of likely impacts should include both direct and indirect impacts.

3.1 (a) World Heritage Properties

Description

No world heritage properties are relevant to the proposed action.

Nature and extent of likely impact

N/A

3.1 (b) National Heritage Places

Description

No National Heritage Places are relevant to the proposed action.

Nature and extent of likely impact

N/A

3.1 (c) Wetlands of International Importance (declared Ramsar wetlands)

Description

No Wetlands of International Importance are relevant to the proposed action.

Nature and extent of likely impact

N/A

3.1 (d) Listed threatened species and ecological communities

Description

A search using the EPBC Act PSMT identified 7 flora species and 16 fauna species listed as threatened under the EPBC Act as having the potential to occur within the site. A search was conducted on 4 June 2013 for the Ecological Constraints Assessment (Biosis 2013) and updated on 5 February 2015 for the Ecological Impact Assessment (Capital Ecology 2016).

As concluded in the Ecological Constraints Assessment (Biosis 2013) completed for a 266 ha study area within which the site is located, two EPBC Act and/or ACT *Nature Conservation Act 2014* (NC Act) listed threatened fauna species have the potential to occur within the site, the Golden Sun Moth and the Striped Legless Lizard. Both species are Matters of National Environmental Significance (MNES) and are also listed under the ACT NC Act). Subsequent targeted surveys for the Golden Sun Moth (Biosis 2014a) and Striped Legless Lizard (Biosis 2014b) confirmed the presence of both species and broadly mapped the extent of the occupied areas as 'confirmed habitat'.

No other threatened species are likely to occur within the site. An updated PMST search was completed for this referral on 7 July 2016. No recently listed species have the potential to occur at the site.

Based upon the results of the Ecological Constraints Assessment (Biosis 2013) and the Ecological Impact Assessment (Capital Ecology 2016), the site does not currently support any listed threatened ecological community.

The habitat for the Golden Sun Moth and Striped Legless Lizard present at the site is described below.

Golden Sun Moth

The Golden Sun Moth *Synemon plana* is listed as 'critically endangered' pursuant to the EPBC Act.

Targeted surveys undertaken by Biosis in December 2013 (Biosis 2014a), confirmed the presence of a "large, high density population of Golden Sun Moth within the southern blocks of the study area with moths recorded in high numbers across much of the surveyed area". Based on the results of the targeted survey (i.e. point data of recorded moths), and upon habitat assessment results (i.e. based upon location and density of host plant species), Biosis broadly mapped the location and extent of all patches of confirmed Golden Sun Moth habitat within their study area.

As noted by Biosis (Biosis 2014a) and illustrated in the associated mapping –

"The Golden Sun Moth population recorded within the study area was found to occur across three discernible constituent habitat polygons. Although separated in places by areas of non-habitat (< 50 m in width), each of the mapped habitat polygons is located well within the known dispersal distance of male Golden Sun Moths (max = approx. 200 m) of one or more of the other polygons. As such, the recorded habitat is considered to constitute a single large and interconnected expanse of occupied habitat rather than three discrete polygons of habitat. Accordingly, given the high likelihood of effective dispersal of male moths (and potentially females, although to a lesser extent) between the constituent habitat polygons, the recorded population is considered to constitute a single large and interconnected population, rather than multiple small discrete sub-populations."

The "single large and interconnected expanse of occupied habitat" mapped by Biosis encompasses 60.64 hectares and is presented in 'Figure 5 – Survey Results' of Biosis 2014a.

Capital Ecology undertook a brief field survey on 23 February 2016 to confirm the current condition of the site and the extent and quality of Golden Sun Moth habitat. The mapped extent of Golden Sun Moth habitat is based

on the distribution of native pasture co-dominated by Wallaby Grasses *Rytidosperma* spp, as well as exotic pasture containing a substantial component of the introduced Chilean Needle Grass *Nassella neesiana* (a declared Weed of National Significance, WoNS). The exotic pasture at the site does not support a substantial component of Chilean Needle Grass, therefore only the native-dominated parts of the site have been mapped as Golden Sun Moth habitat.

Striped Legless Lizard

The Striped Legless Lizard *Delma impar* is listed as 'vulnerable' pursuant to the EPBC Act.

Based on the results of targeted surveys undertaken from September to December 2013, Biosis (Biosis 2014b) concluded the following –

“Data obtained from the targeted survey indicates the presence of a low density population, spread across a large proportion of the study area for the survey.”

and

“Due to the low number of captures recorded across the study area, a lack of records at any particular grid is, in itself, inadequate evidence for the absence (i.e. the lack of habitat) of the species in the vicinity of those grids. Therefore, based upon the distribution of recorded animals and our knowledge of the study area and the ecology of the species, polygons of land considered to be 'confirmed/likely habitat for D. impar' have been developed and are shown on Figure 2 of Attachment C. Although the presence of the species elsewhere cannot be precluded, we consider this likely to represent the actual distribution of the species within the study area.”

The area considered to be “confirmed/likely habitat for *D. impar*” mapped by Biosis encompasses 57.24 hectares as illustrated in ‘Figure 2b: 2013 Majura Striped Legless Lizard Survey Results’ of Biosis 2014b.

Capital Ecology undertook a brief field survey on 23 February 2016 to confirm the current condition of the site and the extent and quality of the Striped Legless Lizard habitat within. Within the species’ geographical range, the species will inhabit Natural Temperate Grassland and high quality native pasture as well as pasture dominated by exotic tussock-forming grasses, provided they retain a moderate to high herbage mass.

The mapped extent of Striped Legless Lizard habitat within the site encompasses all areas of either native pasture or exotic pasture with moderate to high herbage mass. This habitat is shown on ‘Figure 4. Striped Legless Lizard’ of Capital Ecology 2016).

Based on this February 2016 fine-scale habitat mapping, the proposed development would result in the clearance of 0.3315 hectares (or 3,315 m²) of sparsely occupied Striped Legless Lizard habitat. This equals approximately 0.58% of the total of the combined patches of habitat mapped by Biosis (Biosis 2014b).

Nature and extent of likely impact

[Address any impacts on the members of any listed threatened species \(except a conservation dependent species\) or any threatened ecological community, or their habitat.](#)

Golden Sun Moth

Based on the February 2016 fine-scale habitat mapping, the proposed development would result in the clearance of 0.1919 hectares (or 1,919 m²) of Golden Sun Moth habitat (refer ‘Figure 3. Golden Sun Moth’ of Capital Ecology 2016). This extent of clearance would equal approximately 0.32% of the total combined patches of habitat mapped by Biosis (Biosis 2014a).

Whilst it is difficult to classify the quality of Golden Sun Moth habitat, we note that the habitat proposed for clearance under the proposed action does not include any of the high density ‘hotspots’ for the species recorded by Biosis (Biosis 2014a). These areas will not be impacted by the proposed action.

The EPBC Act Policy Statement 3.12, *Significant impact guidelines for the critically endangered golden sun moth (Synemon plana)* (DEWHA 2009a), sets out the thresholds for an action to be likely to have a significant impact upon the species. These thresholds are:

- habitat loss, degradation or fragmentation of >0.5 ha of a large or contiguous habitat area (>10 ha);
- any habitat loss, degradation or fragmentation of a small or fragmented habitat area (<10 ha); and
- fragmentation of a population through the introduction of a barrier to dispersal.

The proposed development involves the permanent clearance of 0.19 hectares (or 1,919 m²) of Golden Sun Moth habitat, of the approximate 60 ha patch of habitat mapped by Biosis (2014a). As this proposed impact is less than 0.5 ha of a large and contiguous habitat area (>10 ha), it does not meet the first (or second) threshold. With regard to the third threshold, the proposed development is located immediately adjacent to IKEA, and as such, will not fragment the Golden Sun Moth population. The proposal therefore does not meet the criteria for significance under the EPBC Act when assessed as a stand-alone impact.

An analysis of cumulative impacts for the Golden Sun Moth was also undertaken by Capital Ecology in the Ecological Impact Assessment (Capital Ecology 2016). When cumulative impacts for commercial development west of Majura Road are considered (i.e. the impacts of the proposed action plus the impacts of the approved related development described in Section 2.7), the total impact upon the Golden Sun Moth is 0.95 ha. This is over the 0.5 ha guideline threshold for significance.

Striped Legless Lizard

Based on the February 2016 fine-scale habitat mapping, the proposed development would result in the clearance of 0.3315 hectares (or 3,315 m²) of low density Striped Legless Lizard habitat. This equals approximately 0.58% of the total of the combined patches of habitat mapped by Biosis.

An assessment of the proposed development against each of the criteria in the *EPBC Act Matters of National Environmental Significance - Significant Impact Guidelines 1.1* (DoE 2013) was completed by Capital Ecology in the Ecological Impact Assessment (Capital Ecology 2016). As determined through the assessment, when assessed as a stand-alone impact the proposed works will not have a significant impact upon the Striped Legless Lizard.

An analysis of cumulative impacts for the Striped Legless Lizard was also undertaken by Capital Ecology in the Ecological Impact Assessment. When cumulative impacts for commercial development west of Majura Road are considered (i.e. the impacts of the proposed action plus the impacts of the approved related development described in Section 2.7), the total impact upon the Striped Legless Lizard is 1.3 ha of direct loss and 4 ha of likely indirect impact through fragmentation (from the Spitfire Link Road). As discussed by Capital Ecology, the proposed action is unlikely to increase the significance of the impacts upon the Striped Legless Lizard in the locality such that the cumulative impact will be significant.

3.1 (e) Listed migratory species

Description

The site is not important habitat to any listed migratory species.

Nature and extent of likely impact

N/A

3.1 (f) Commonwealth marine area

(If the action is in the Commonwealth marine area, complete 3.2(c) instead. This section is for actions taken outside the Commonwealth marine area that may have impacts on that area.)

Description

The action will not impact upon a Commonwealth marine area.

Nature and extent of likely impact

N/A

3.1 (g) Commonwealth land

(If the action is on Commonwealth land, complete 3.2(d) instead. This section is for actions taken outside Commonwealth land that may have impacts on that land.)

Description

If the action will affect Commonwealth land also describe the more general environment. The Policy Statement titled *Significant Impact Guidelines 1.2 - Actions on, or impacting upon, Commonwealth land, and actions by Commonwealth agencies* provides further details on the type of information needed. If applicable, identify any potential impacts from actions taken outside the Australian jurisdiction on the environment in a Commonwealth Heritage Place overseas.

Commonwealth Department of Defence land is located in the vicinity of the site however the proposed action will not impact upon Commonwealth land.

Nature and extent of likely impact

Address any impacts on any part of the environment in the Commonwealth land. Your assessment of impacts should refer to the *Significant Impact Guidelines 1.2 - Actions on, or impacting upon, Commonwealth land, and actions by Commonwealth agencies* and specifically address impacts on:

- ecosystems and their constituent parts, including people and communities;
- natural and physical resources;
- the qualities and characteristics of locations, places and areas;
- the heritage values of places; and
- the social, economic and cultural aspects of the above things.

N/A

3.1 (h) The Great Barrier Reef Marine Park

Description

The site is not located within or nearby the Great Barrier Reef Marine Park.

Nature and extent of likely impact

N/A

3.1 (i) A water resource, in relation to coal seam gas development and large coal mining development

Description

The proposed action is not a coal seam gas development or coal mining development.

Nature and extent of likely impact

N/A

3.2 Nuclear actions, actions taken by the Commonwealth (or Commonwealth agency), actions taken in a Commonwealth marine area, actions taken on Commonwealth land, or actions taken in the Great Barrier Reef Marine Park

You must describe the nature and extent of likely impacts (both direct & indirect) on the [whole](#) environment if your project:

- is a nuclear action;
- will be taken by the Commonwealth or a Commonwealth agency;
- will be taken in a Commonwealth marine area;
- will be taken on Commonwealth land; or
- will be taken in the Great Barrier Reef marine Park.

Your assessment of impacts should refer to the *Significant Impact Guidelines 1.2 - Actions on, or impacting upon, Commonwealth land, and actions by Commonwealth agencies* and specifically address impacts on:

- ecosystems and their constituent parts, including people and communities;
- natural and physical resources;
- the qualities and characteristics of locations, places and areas;
- the heritage values of places; and
- the social, economic and cultural aspects of the above things.

3.2 (a)	Is the proposed action a nuclear action?	X	No
			Yes (provide details below)

If yes, nature & extent of likely impact on the whole environment

3.2 (b)	Is the proposed action to be taken by the Commonwealth or a Commonwealth agency?	X	No
			Yes (provide details below)

If yes, nature & extent of likely impact on the whole environment

3.2 (c)	Is the proposed action to be taken in a Commonwealth marine area?	X	No
			Yes (provide details below)
If yes, nature & extent of likely impact on the whole environment (in addition to 3.1(f))			
3.2 (d)	Is the proposed action to be taken on Commonwealth land?	X	No
			Yes (provide details below)
If yes, nature & extent of likely impact on the whole environment (in addition to 3.1(g))			
3.2 (e)	Is the proposed action to be taken in the Great Barrier Reef Marine Park?	X	No
			Yes (provide details below)
If yes, nature & extent of likely impact on the whole environment (in addition to 3.1(h))			

3.3 Other important features of the environment

Provide a description of the project area and the affected area, including information about the following features (where relevant to the project area and/or affected area, and to the extent not otherwise addressed above). If at Section 2.3 you identified any alternative locations, time frames or activities for your proposed action, you must complete each of the details below (where relevant) for each alternative identified.

3.3 (a) Flora and fauna

Whilst the site (and surrounding land) is expected to have supported Natural Temperate Grassland prior to 1750, a history of grazing and pasture improvement has reduced the quality of the grassland to the point that only the hardiest, grazing-tolerant native grasses and forbs remain.

The degraded native pasture and exotic pasture present is unlikely to be of significant value to non-listed native fauna.

3.3 (b) Hydrology, including water flows

A ephemeral drainage line bisects the site. This drainage line supports predominantly exotic vegetation at the site. The proposed action will modify the drainage line, however it will be reshaped and incorporated into landscaping such that its current function will be maintained.

3.3 (c) Soil and Vegetation characteristics

The site was assessed at a fine scale for the Ecological Impact Assessment (Capital Ecology 2016) and observed to support discernible polygons of the following two vegetation classifications.

Native Pasture. The dominant vegetation classification across the paddock within which the site is located, the Native Pasture is characterised by a moderately dense thatch dominated by Tall Speargrass *Austrostipa bigeniculata*, Wallaby Grasses *Rytidosperma* spp. (predominantly *R. carphoides* and *R. bipartita*), Red Grass *Bothriochloa macra* and Hairy Panic *Panicum effusum*.

Exotic Pasture. Restricted to the drainage line and the disturbed areas along the IKEA boundary, the Exotic Pasture is characterised by a dense thatch dominated by Phalaris *Phalaris aquatica*, Tall Fescue *Festuca arundinacea*, Paspalum *Paspalum dilatatum* and Cock's Foot *Dactylis glomerata*, together with scattered plants of the native Austral Rush *Juncus australis*.

3.3 (d) Outstanding natural features

No outstanding natural features are present.

3.3 (e) Remnant native vegetation

Up to 1,919 m² of degraded remnant native vegetation is proposed to be cleared. Refer to 3.3 (c) Soil and Vegetation Characteristics.

3.3 (f) Gradient (or depth range if action is to be taken in a marine area)

The site slopes slightly down to the drainage line which bisects it. It is otherwise mostly flat.

3.3 (g) Current state of the environment

[Include information about the extent of erosion, whether the area is infested with weeds or feral animals and whether the area is covered by native vegetation or crops.](#)

The site contains highly modified vegetation and supports some significant weeds. Fifteen mature Serrated Tussock *Nassella trichotoma* tussocks were counted within the site and a few small Blackberry *Rubus fruticosus* plants were observed in the paddock to the north of the site. Both are Weeds of National Significance. Although not observed within the site itself, many clumps the weed African Love Grass *Eragrostis curvula*, were observed along the Majura Road verge adjoining the eastern boundary of the site. St John's Wort and Chilean Needle Grass also occur in the vicinity of the site.

Feral animals are likely to utilise the site however the site is not more or less infested than the broader area.

No notable erosion is currently present.

3.3 (h) Commonwealth Heritage Places or other places recognised as having heritage values

The ACT listed heritage site, Duntroon Woolshed, is located approximately 500 m southwest of the site. The Woolshed Creek fossil site is also located to the southwest of the site (approximately 900 m). Neither will be impacted by the proposed action. No other places of known heritage value are located nearby the site.

3.3 (i) Indigenous heritage values

The site is located within the study area for the Majura West – Stage 1 Cultural Heritage Assessment (ERM 2014). None of the heritage sites located by ERM are located within close proximity of the site and the site was not assessed as supporting either Aboriginal or historical heritage value.

3.3 (j) Other important or unique values of the environment

[Describe any other key features of the environment affected by, or in proximity to the proposed action \(for example, any national parks, conservation reserves, wetlands of national significance etc\).](#)

No other important or unique values of the environment are located in proximity to the proposed action.

3.3 (k) Tenure of the action area (eg freehold, leasehold)

The site is currently unleased Territory land.

3.3 (l) Existing land/marine uses of area

The land has been utilised for cattle grazing for many years. No other uses are known.

3.3 (m) Any proposed land/marine uses of area

The site is proposed to become an access road into the north of IKEA, with the verges and drainage line reshaped and landscaped with native vegetation. It will be permanently fenced from the adjacent grazed paddock which supports Golden Sun Moth and Striped Legless Lizard.

4 Environmental outcomes

Provide descriptions of the proposed environmental outcomes that will be achieved for matters of national environmental significance as a result of the proposed action. Include details of the baseline data upon which the outcomes are based, and the confidence about the likely achievement of the proposed outcomes. Where outcomes cannot be identified or committed to, provide explanatory details including any commitments to identify outcomes through an assessment process.

If a proposed action is determined to be a controlled action, the Department may request further details to enable application of the draft *Outcomes-based Conditions Policy 2015* and *Outcomes-based Conditions Guidance 2015* (<http://www.environment.gov.au/epbc/consultation/policy-guidance-outcomes-based-conditions>), including about environmental outcomes to be achieved, details of baseline data, milestones, performance criteria, and monitoring and adaptive management to ensure the achievement of outcomes. If this information is available at the time of referral it should be included.

General commitments to achieving environmental outcomes, particularly relating to beneficial impacts of the proposed action, CANNOT be taken into account in making the initial decision about whether the proposal is likely to have a significant impact on a matter protected under the EPBC Act. (But those commitments may be relevant at the later assessment and approval stages, including the appropriate level of assessment, and conditions of approval, if your proposal proceeds to these stages).

As a consequence of the proposed action, a small amount of Golden Sun Moth habitat and Striped Legless Lizard habitat is proposed to be cleared. No habitat of significance to migratory or common native fauna will be lost or disturbed. The measures listed under 5 below will be implemented to minimise and mitigate impacts to the extent practicable.

5 Measures to avoid or reduce impacts

Note: If you have identified alternatives in relation to location, time frames or activities for the proposed action at Section 2.3 you will need to complete this section in relation to each of the alternatives identified.

Provide a description of measures that will be implemented to avoid, reduce, manage or offset any relevant impacts of the action. Include, if appropriate, any relevant reports or technical advice relating to the feasibility and effectiveness of the proposed measures.

For any measures intended to avoid or mitigate significant impacts on matters protected under the EPBC Act, specify:

- what the measure is,
- how the measure is expected to be effective, and
- the time frame or workplan for the measure.

Examples of relevant measures to avoid or reduce impacts may include the timing of works, avoidance of important habitat, specific design measures, or adoption of specific work practices.

Provide information about the level of commitment by the person proposing to take the action to achieve the proposed environmental outcomes and implement the proposed mitigation measures. For example, if the measures are preliminary suggestions only that have not been fully researched, or are dependent on a third party's agreement (e.g. council or landowner), you should state that, that is the case.

Note, the Australian Government Environment Minister may decide that a proposed action is not likely to have significant impacts on a protected matter, as long as the action is taken in a particular manner (section 77A of the EPBC Act). The particular manner of taking the action may avoid or reduce certain impacts, in such a way that those impacts will not be 'significant'. More detail is provided on the Department's web site.

For the Minister to make such a decision (under section 77A), the proposed measures to avoid or reduce impacts must:

- clearly form part of the referred action (eg be identified in the referral and fall within the responsibility of the person proposing to take the action),
- be must be clear, unambiguous, and provide certainty in relation to reducing or avoiding impacts on the matters protected, and
- must be realistic and practical in terms of reporting, auditing and enforcement.

If a proposed action is determined to be a controlled action, the Department may request further details to enable application of the *Outcomes-based Conditions Policy 2016* (<http://www.environment.gov.au/epbc/publications/outcomes-based-conditions-policy-guidance>), including information about the environmental outcomes to be achieved by proposed avoidance, mitigation, management or offset measures, details of baseline data, milestones, performance criteria, and

monitoring and adaptive management to ensure the achievement of outcomes. If this information is available at the time of referral it should be included in the description of the proposed measures.

More general commitments (e.g. preparation of management plans or monitoring), commitments to achieving environmental outcomes and measures aimed at providing environmental offsets, compensation or off-site benefits CANNOT be taken into account in making the initial decision about whether the proposal is likely to have a significant impact on a matter protected under the EPBC Act. (But those commitments may be relevant at the later assessment and approval stages, including the appropriate level of assessment, if your proposal proceeds to these stages).

A number of measures are proposed to reduce the impact of the proposed action upon ecological values, specifically Golden Sun Moth, Striped Legless Lizard, and native vegetation. These measures have been developed by Capital Ecology in consultation with Calibre Consulting and CMTEDD, with the understanding that they may become conditions of any approval. The development design presented in this referral has been amended to substantially reduce the initially proposed disturbance footprint and to include these measures. The measures are detailed below.

- Prior to any works taking place, a permanent site boundary fence will be erected to delineate the maximum disturbance extent (refer Figures 2 to 4 of Capital Ecology 2016). No impacts will occur outside of this extent, including driving, or storage of plant or materials. This boundary fence will be maintained in perpetuity to prevent access or impacts into the future.
- Sediment and erosion control measures will be installed and maintained to ensure no impacts from sediment run off or erosion occur outside of the site boundary.
- Best practice weed management will be implemented during all works to ensure that weeds (notably African Love Grass, Blackberry, Serrated Tussock, St John's Wort, and Chilean Needle Grass) are not spread further within the site and surrounding locality. This will include:
 - appropriate vehicle hygiene – all vehicles and machinery (including tools for vegetation removal) will be cleaned of all weed seed or propagules prior to entry to the work site;
 - only low fertility soils will be used to fill excavations, no top-soil or other potentially weed seed laden organic material will be imported;
 - only sterile materials such as hessian/jute or rice straw will be used for soil stabilisation or similar purposes;
 - following conclusion of the works and landscaping, significant weeds will be controlled within and adjacent to the site by a qualified and experienced weed control contractor; and landscaping will incorporate only local native species and/or infertile introduced species.

6 Conclusion on the likelihood of significant impacts

Identify whether or not you believe the action is a controlled action (ie. whether you think that significant impacts on the matters protected under Part 3 of the EPBC Act are likely) and the reasons why.

6.1 Do you THINK your proposed action is a controlled action?

<input checked="" type="checkbox"/>	No, complete section 5.2
<input type="checkbox"/>	Yes, complete section 5.3

6.2 Proposed action IS NOT a controlled action.

Specify the key reasons why you think the proposed action is NOT LIKELY to have significant impacts on a matter protected under the EPBC Act.

When considered as a stand-alone action, the proposed development will have only a minor impact upon the two threatened species known to occur at the site, the Golden Sun Moth and the Striped Legless Lizard.

Whilst on its own the proposal does not meet the thresholds for significance under the EPBC Act, when cumulative impacts for commercial development west of Majura Road are considered, the total impact upon the Golden Sun Moth is 0.95 ha which is over the 0.5 ha guideline threshold for significance in EPBC Act Policy Statement 3.12.

Given that the loss of Golden Sun Moth habitat associated with the proposed action will be limited to 0.19 ha, the cumulative impact of associated development in the absence of this additional loss is still substantially above the threshold. Given that each individual development has been approved to date, it is unreasonable to combine the impacts at this late stage and determine, due to consideration of cumulative impacts, that this small additional impact is likely to significantly impact upon the species.

In addition, in the context of the original 61 ha of largely contiguous Golden Sun Moth habitat in the area between the Majura Parkway and Majura Road, the total cumulative impact of 0.95 ha (1.5% of the total area) is unlikely to be significant with regard to the persistence of the species in the area.

Whilst it is difficult to classify the quality of Golden Sun Moth habitat, we note that the habitat proposed for clearance under the proposed action does not include any of the high density 'hotspots' for the species recorded by Biosis (Biosis 2014a). These areas will not be impacted by the proposed action.

Similarly, the small additional impact of the proposed action (0.3 ha) upon sparsely occupied Striped Legless Lizard habitat is unlikely to increase the total impact of development west of Majura Road such that the impact would become significant (i.e. 1.3 ha total direct loss plus 4 ha of likely indirect impact through fragmentation).

6.3 Proposed action IS a controlled action

Type 'x' in the box for the matter(s) protected under the EPBC Act that you think are likely to be significantly impacted. (The 'sections' identified below are the relevant sections of the EPBC Act.)

Matters likely to be impacted

<input type="checkbox"/>	World Heritage values (sections 12 and 15A)
<input type="checkbox"/>	National Heritage places (sections 15B and 15C)
<input type="checkbox"/>	Wetlands of international importance (sections 16 and 17B)
<input type="checkbox"/>	Listed threatened species and communities (sections 18 and 18A)
<input type="checkbox"/>	Listed migratory species (sections 20 and 20A)

<input type="checkbox"/>	Protection of the environment from nuclear actions (sections 21 and 22A)
<input type="checkbox"/>	Commonwealth marine environment (sections 23 and 24A)
<input type="checkbox"/>	Great Barrier Reef Marine Park (sections 24B and 24C)
<input type="checkbox"/>	A water resource, in relation to coal seam gas development and large coal mining development (sections 24D and 24E)
<input type="checkbox"/>	Protection of the environment from actions involving Commonwealth land (sections 26 and 27A)
<input type="checkbox"/>	Protection of the environment from Commonwealth actions (section 28)
<input type="checkbox"/>	Commonwealth Heritage places overseas (sections 27B and 27C)

Specify the key reasons why you think the proposed action is likely to have a significant adverse impact on the matters identified above.

7 Environmental record of the responsible party

NOTE: If a decision is made that a proposal needs approval under the EPBC Act, the Environment Minister will also decide the assessment approach. The EPBC Regulations provide for the environmental history of the party proposing to take the action to be taken into account when deciding the assessment approach.

	Yes	No
<p>7.1 Does the party taking the action have a satisfactory record of responsible environmental management?</p> <p>Provide details</p> <p>The Australian Government has accredited the ACT's EIS process through a bilateral agreement as meeting the environmental assessment requirements of the EPBC Act. A revised agreement commenced on 16 June 2014.</p>	X	
<p>7.2 Has either (a) the party proposing to take the action, or (b) if a permit has been applied for in relation to the action, the person making the application - ever been subject to any proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources?</p> <p>If yes, provide details</p>		X
<p>7.3 If the party taking the action is a corporation, will the action be taken in accordance with the corporation's environmental policy and planning framework?</p> <p>If yes, provide details of environmental policy and planning framework</p>	N/A	
<p>7.4 Has the party taking the action previously referred an action under the EPBC Act, or been responsible for undertaking an action referred under the EPBC Act?</p> <p>Provide name of proposal and EPBC reference number (if known)</p> <p>The ACT Government has referred numerous proposed actions.</p>	X	

8 Information sources and attachments

(For the information provided above)

8.1 References

- List the references used in preparing the referral.
 - Highlight documents that are available to the public, including web references if relevant.
-
- Biosis (2013). *Majura – Pialligo Constraints Assessment*. Unpublished report to the ACT LDA.
 - Biosis (2014a). *Majura – Pialligo Golden Sun Moth Survey Report*. Unpublished report to the ACT LDA.
 - Biosis (2014b). *Majura – Pialligo Striped Legless Lizard Survey Report*. Unpublished report to the ACT LDA.
 - Capital Ecology (2016). *IKEA Canberra Northern Access Road – Ecological Impact Assessment*. Capital Ecology project no. 2703. V3 – 3 June 2016.
 - DEWHA (2009). *Significant impact guidelines for the critically endangered golden sun moth (*Synemon plana*)*, EPBC Act Policy Statement 3.12. Australian Government Department of the Environment, Water, Heritage and the Arts.
 - DoE (2013). *Significant Impact Guidelines 1.1 – Matters of National Environmental Significance*. Australian Government Department of the Environment.
 - Environmental Resources Management (2014). *Majura West – Stage 1 Cultural Heritage Assessment*. Prepared for the ACT Land Development Agency, February 2014.

8.2 Reliability and date of information

For information in section 3 specify:

- source of the information;
- how recent the information is;
- how the reliability of the information was tested; and
- any uncertainties in the information.

The information regarding the ecological values and conditions within the site is drawn from the numerous surveys and studies completed to date for the site or broader locality, as listed under 'References' above. These studies have been undertaken by a local professional ecological consultants, experienced in the survey and assessment of impacts upon the relevant MNES.

The studies informing this referral are considered to be reliable and suitably recent.

8.3 Attachments

Indicate the documents you have attached. All attachments must be less than three megabytes (3mb) so they can be published on the Department's website. Attachments larger than three megabytes (3mb) may delay the processing of your referral.

		✓ attached	Title of attachment(s)
You must attach	figures, maps or aerial photographs showing the project locality (section 1)	✓	Attachment A - Capital Ecology (2016). <i>IKEA Canberra Northern Access Road – Ecological Impact Assessment</i> . Capital Ecology project no. 2703. V3 – 3 June 2016. Refer Figure 1. Locality Plan.
	GIS file delineating the boundary of the referral area (section 1)	✓	
	figures, maps or aerial photographs showing the location of the project in respect to any matters of national environmental significance or important features of the environments (section 3)		Attachment B – GIS (.shp) files for figures from Attachment A. Figures 2, 3 and 4 of Attachment A.
If relevant, attach	copies of any state or local government approvals and consent conditions (section 2.5)		
	copies of any completed assessments to meet state or local government approvals and outcomes of public consultations, if available (section 2.6)		
	copies of any flora and fauna investigations and surveys (section 3)	✓	Attachment A. Attachment C – Biosis (2013). <i>Majura – Pialligo Constraints Assessment</i> .
	technical reports relevant to the assessment of impacts on protected matters that support the arguments and conclusions in the referral (section 3 and 4)	✓	Attachment D – Biosis (2014a). <i>Majura – Pialligo Golden Sun Moth Survey</i> . Attachment E – Biosis (2014b). <i>Majura – Pialligo Striped Legless Lizard Survey</i> .
	report(s) on any public consultations undertaken, including with Indigenous stakeholders (section 3)		

9 Contacts, signatures and declarations

NOTE: Providing false or misleading information is an offence punishable on conviction by imprisonment and fine (s 489, EPBC Act).

Under the EPBC Act a referral can only be made by:

- the person proposing to take the action (which can include a person acting on their behalf); or
- a Commonwealth, state or territory government, or agency that is aware of a proposal by a person to take an action, and that has administrative responsibilities relating to the action¹.

Project title:

9.1 Person proposing to take action

This is the individual, government agency or company that will be principally responsible for, or who will carry out, the proposed action.

If the proposed action will be taken under a contract or other arrangement, this is:

- the person for whose benefit the action will be taken; or
- the person who procured the contract or other arrangement and who will have principal control and responsibility for the taking of the proposed action.

If the proposed action requires a permit under the Great Barrier Reef Marine Park Act², this is the person requiring the grant of a GBRMP permission.

The Minister may also request relevant additional information from this person.

If further assessment and approval for the action is required, any approval which may be granted will be issued to the person proposing to take the action. This person will be responsible for complying with any conditions attached to the approval.

If the Minister decides that further assessment and approval is required, the Minister must designate a person as a proponent of the action. The proponent is responsible for meeting the requirements of the EPBC Act during the assessment process. The proponent will generally be the person proposing to take the action³.

1. Name and Title: Miloje (Misha) Beljic - Senior Project Officer
2. Organisation (if applicable): ACT Procurement
3. EPBC Referral Number (if known): TBA
- 4: ACN / ABN (if applicable): ABN 66 676 633 401
5. Postal address: GPO Box 818, Dickson ACT 2602
6. Telephone: 02 6207 1664
7. Email: Miloje.Beljic@act.gov.au
8. Name of proposed proponent (if not the same person at item 1 above and if applicable):
9. ACN/ABN of proposed proponent (if not the same person named at item 1 above):

¹ If the proposed action is to be taken by a Commonwealth, state or territory government or agency, section 8.1 of this form should be completed. However, if the government or agency is aware of, and has administrative responsibilities relating to, a proposed action that is to be taken by another person which has not otherwise been referred, please contact the Referrals Gateway (1800 803 772) to obtain an alternative contacts, signatures and declarations page.

² If your referred action, or a component of it, is to be taken in the Great Barrier Reef Marine Park the Minister is required to provide a copy of your referral to the Great Barrier Reef Marine Park Authority (GBRMPA) (see section 73A, EPBC Act). For information about how the GBRMPA may use your information, see http://www.gbrmpa.gov.au/privacy/privacy_notice_for_permits.

COMPLETE THIS SECTION ONLY IF YOU QUALIFY FOR EXEMPTION FROM THE FEE(S) THAT WOULD OTHERWISE BE PAYABLE

I qualify for exemption from fees under section 520(4C)(e)(v) of the EPBC Act because I am:

- an individual; OR
- a small business entity (within the meaning given by section 328-110 (other than subsection 328-119(4)) of the *Income Tax Assessment Act 1997*); OR
- not applicable.

If you are small business entity you must provide the Date/Income Year that you became a small business entity:

Note: You must advise the Department within 10 business days if you cease to be a small business entity. Failure to notify the Secretary of this is an offence punishable on conviction by a fine (regulation 5.23B(3) *Environment Protection and Biodiversity Conservation Regulations 2000 (Cth)*).

COMPLETE THIS SECTION ONLY IF YOU WOULD LIKE TO APPLY FOR A WAIVER

I would like to apply for a waiver of full or partial fees under Schedule 1, 5.21A of the EPBC Regulations.

Under sub regulation 5.21A(5), you must include information about the applicant (if not you) the grounds on which the waiver is sought and the reasons why it should be made:

Declaration

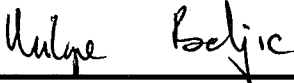
- not applicable.

I declare that to the best of my knowledge the information I have given on, or attached to this form is complete, current and correct.

I understand that giving false or misleading information is a serious offence.

I agree to be the proponent for this action.

I declare that I am not taking the action on behalf of or for the benefit of any other person or entity.

Signature: 

Date: 11 July 2016

9.2 Person preparing the referral information (if different from 8.1)

Individual or organisation who has prepared the information contained in this referral form.

Name Robert Speirs
Title Director / Principal Ecologist
Organisation Capital Ecology Pty Ltd
ACN / ABN (if applicable) 607 364 358 / 50 607 364 358
Postal address PO Box 854, Gungahlin, ACT, 2912
Telephone 0412 474 415
Email rob@capitalecology.com.au

Declaration I declare that to the best of my knowledge the information I have given on, or attached to this form is complete, current and correct.
I understand that giving false or misleading information is a serious offence.

Signature



Date: 11 July 2016

REFERRAL CHECKLIST

NOTE: This checklist is to help ensure that all the relevant referral information has been provided. It is not a part of the referral form and does not need to be sent to the Department.

HAVE YOU:

- ✓ Completed all required sections of the referral form?
- ✓ Included accurate coordinates (to allow the location of the proposed action to be mapped)?
- ✓ Provided a map showing the location and approximate boundaries of the project area?
- ✓ Provided a map/plan showing the location of the action in relation to any matters of NES?
- ✓ Provided a digital file (preferably ArcGIS shapefile, refer to guidelines at [Attachment A](#)) delineating the boundaries of the referral area?
- ✓ Provided complete contact details and signed the form?
- ✓ Provided copies of any documents referenced in the referral form?
- ✓ Ensured that all attachments are less than three megabytes (3mb)?
- ✓ Sent the referral to the Department (electronic and hard copy preferred)?

Geographic Information System (GIS) data supply guidelines

If the area is less than 5 hectares, provide the location as a point layer. If the area greater than 5 hectares, please provide as a polygon layer. If the proposed action is linear (eg. a road or pipeline) please provide a polyline layer.

GIS data needs to be provided to the Department in the following manner:

- Point, Line or Polygon data types: ESRI file geodatabase feature class (preferred) or as an ESRI shapefile (.shp) zipped and attached with appropriate title
- Raster data types: Raw satellite imagery should be supplied in the vendor specific format.
- Projection as GDA94 coordinate system.

Processed products should be provided as follows:

- For data, uncompressed or lossless compressed formats is required - GeoTIFF or Imagine IMG is the first preference, then JPEG2000 lossless and other simple binary+header formats (ERS, ENVI or BIL).
- For natural/false/pseudo colour RGB imagery:
 - If the imagery is already mosaiced and is ready for display then lossy compression is suitable (JPEG2000 lossy/ECW/MrSID). Prefer 10% compression, up to 20% is acceptable.
 - If the imagery requires any sort of processing prior to display (i.e. mosaicing/colour balancing/etc) then an uncompressed or lossless compressed format is required.

Metadata or 'information about data' will be produced for all spatial data and will be compliant with ANZLIC Metadata Profile. (http://www.anzlic.org.au/policies_guidelines#guidelines).

The Department's preferred method is using ANZMet Lite, however the Department's Service Provider may use any compliant system to generate metadata.

All data will be provide under a Creative Commons license (<http://creativecommons.org/licenses/by/3.0/au/>)