



Title of Proposal - Butler North District Open Space

Section 1 - Summary of your proposed action

Provide a summary of your proposed action, including any consultations undertaken.

1.1 Project Industry Type

Tourism and Recreation

1.2 Provide a detailed description of the proposed action, including all proposed activities.

The City of Wanneroo is proposing to develop playing fields and associated infrastructure (e.g. carparks, club room etc.) within the Butler North District Open Space (the Proposed Action Area), which spans two sites:

- 1K Darbyshire Parade, Alkimos; and
- 24 Halesworth Parade, Butler.

The Proposed Action Area encompasses 10.26 ha and the Proposed Action is in accordance with the Lot 3 Romeo Road, Alkimos Local Structure Plan and Lot 9049 Marmion Avenue, Butler Structure Plan, both of which have been approved as Controlled Actions under the EPBC Act (EPBC 2008/4601 and EPBC 2009/5155 respectively).

Implementation of the Proposed Action will result in the clearing of native vegetation that comprises habitat for Carnaby's Black-Cockatoo and the Threatened Ecological Community (TEC) Banksia Woodlands of the Swan Coastal Plain (Banksia Woodlands TEC).

Conservation areas have been incorporated into the Proposed Action Area to protect the Banksia Woodlands TEC and Carnaby's Black-Cockatoo habitat, as well as comply with the Vegetation Management Plan approved under EPBC 2009/5155.

1.3 What is the extent and location of your proposed action? Use the polygon tool on the map below to mark the location of your proposed action.

Area	Point	Latitude	Longitude
Indicative Proposed Action Area	1	-31.633087420988	115.69522301292
Indicative Proposed Action Area	2	-31.631240581068	115.69523517784
Indicative Proposed Action Area	3	-31.631235789747	115.69577698406



Area	Point	Latitude	Longitude
Indicative Proposed Action Area	4	-31.628751044045	115.69577161964
Indicative Proposed Action Area	5	-31.628751044045	115.69679622349
Indicative Proposed Action Area	6	-31.629111884397	115.69746677574
Indicative Proposed Action Area	7	-31.631267762145	115.69821779426
Indicative Proposed Action Area	8	-31.631258627175	115.69791738685
Indicative Proposed Action Area	9	-31.631313099042	115.69800685203
Indicative Proposed Action Area	10	-31.632783816763	115.6985057429
Indicative Proposed Action Area	11	-31.632925406372	115.69843600547
Indicative Proposed Action Area	12	-31.632929973776	115.69834481036
Indicative Proposed Action Area	13	-31.632939108581	115.69616443553
Indicative Proposed Action Area	14	-31.632904853055	115.69614834228
Indicative Proposed Action Area	15	-31.632901427502	115.69611079135
Indicative Proposed Action Area	16	-31.632963087442	115.69604641834
Indicative Proposed Action Area	17	-31.633068137615	115.69569236675
Indicative Proposed Action Area	18	-31.633095541989	115.69549120107
Indicative Proposed Action Area	19	-31.633093258291	115.69522566238
Indicative Proposed Action Area	20	-31.633087420988	115.69522301292

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

The Proposed Action Area is located within the City of Wanneroo, which is located approximately 38 km northwest of the Perth Central Business District and 16.5 km northwest of



the Wanneroo City Centre. The Proposed Action Area is bound by Halesworth Parade to the south, Santorini Promenade to the north, the Butler train line and Chardbury Dr to the east and the John Butler Primary College to the west (**Figure 1**).

The Proposed Action Area is comprised of remnant native vegetation, some of which has been historically cleared for tracks and sand extraction.

1.6 What is the size of the proposed action area development footprint (or work area) including disturbance footprint and avoidance footprint (if relevant)?

Proposed Action Area: 10.26 ha; includes 1.40 ha of conservation areas

1.7 Is the proposed action a street address or lot?

Lot

1.7.2 Describe the lot number and title. Lot 8210 on Deposited Plan 73880 and Lot 9041 on Deposited Plan 410670

1.8 Primary Jurisdiction.

Western Australia

1.9 Has the person proposing to take the action received any Australian Government grant funding to undertake this project?

No

1.10 Is the proposed action subject to local government planning approval?

No

1.11 Provide an estimated start and estimated end date for the proposed action.

Start date 03/2018

End date 03/2023

1.12 Provide details of the context, planning framework and State and/or Local government requirements.

This Proposed Action Area is zoned 'Urban' under the Metropolitan Region Scheme and 'Urban Development' under the City of Wanneroo District Planning Scheme No.2.



The Butler Jindalee District Structure Plan No. 39 was prepared for the broader district in 2005. Under this District Structure Plan (as amended 22nd January 2016) the Proposed Action Area is zoned as 'Recreation' which includes Major Local Open Space, District and Regional Open Space, and Approved & Proposed Local Open Space Areas.

The Proposed Action area encompasses two Lots, and consequently spans two Approved Structure Plans (ASP 27 for 24 Halesworth Parade, and ASP 60 for 1K Derbyshire Parade). The Butler-Ridgewood Agreed Structure Plan (ASP 27) was endorsed by the Western Australian Planning Commission (WAPC) and the City of Wanneroo on 4 June 2002. This plan (updated 12 October 2015) zones 24 Halesworth Parade (i.e. the southern portion of the Proposed Action Area) as "Public Use".

The Lots 1001 & 1002 Marmion Avenue, Alkimos Agreed Structure Plan (ASP 60) was originally adopted by resolution of WAPC on 13 November 2009 and by resolution of the Council of the City of Wanneroo on 27 January 2010. This plan (updated October 2015) zones 1K Derbyshire Parade (i.e. the northern portion of the Proposed Action Area) as "Public Use", specified as "High School/Primary School and District Open Space".

1.13 Describe any public consultation that has been, is being or will be undertaken, including with Indigenous stakeholders.

Public consultation was undertaken as part of the Butler North District Open Space Masterplan in July/August 2015. This included the following:

Mail-out to residents within 400 m radius (1,871 households); Online Survey; Promoted through the City's website and social media pages; Promotion through LWP Property Group and Satterley resident mailing lists; and Meetings with relevant State Sporting Associations.

A total of 237 submissions were received of which 189 were complete or valid. Of the 189; 95% were supportive of the development and 5% non-supportive.

Consultation with stakeholders will be ongoing throughout the design and construction phases.

1.14 Describe any environmental impact assessments that have been or will be carried out under Commonwealth, State or Territory legislation including relevant impacts of the project.



Historical EPBC Act approvals exist over the Proposed Action Area for urban development projects (Lot 3 Romeo Road, Alkimos Local Structure Plan and Lot 9049 Marmion Avenue, Butler Structure Plan, both of which have been approved as Controlled Actions under the EPBC Act [EPBC 2008/4601 and EPBC 2009/5155 respectively]). These approvals apply to Satterley Property Group and LWP and identify the Proposed Action Area as District Open Space, to be developed in the future. As the City of Wanneroo is not a proponent of either approval, and is seeking to develop within both approved action areas; standalone approval under the EPBC Act is being sought for the Proposed Action.

The Proposed Action will be undertaken in accordance with the approved Structure Plans, and a Native Vegetation Clearing Permit application will be obtained as per the requirements of the Western Australian *Environmental Protection Act 1986*.

1.15 Is this action part of a staged development (or a component of a larger project)?

No

1.16 Is the proposed action related to other actions or proposals in the region?

Yes

1.16.1 Identify the nature/scope and location of the related action (Including under the relevant legislation).

The Proposed Action is linked to a proposal for the development of a School and part of the District Open Space on adjoining land to the west of the Proposed Action Area owned by the Department of Education (Figure 2).



Section 2 - 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. Consideration of likely impacts should include both direct and indirect impacts.

Your assessment of likely impacts should consider whether a bioregional plan is relevant to your proposal. The following resources can assist you in your assessment of likely impacts:

- [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](#);
- [Significant Impact Guideline 1.2 – Actions on, or impacting upon, Commonwealth land and Actions by Commonwealth Agencies](#).

2.1 Is the proposed action likely to have ANY direct or indirect impact on the values of any World Heritage properties?

No

2.2 Is the proposed action likely to have ANY direct or indirect impact on the values of any National Heritage places?

No

2.3 Is the proposed action likely to have ANY direct or indirect impact on the ecological character of a Ramsar wetland?

No

2.4 Is the proposed action likely to have ANY direct or indirect impact on the members of any listed species or any threatened ecological community, or their habitat?

Yes

2.4.1 Impact table

Species	Impact
Banksia Woodlands of the Swan Coastal Plain	Direct impacts: loss of approximately 7.82 ha of



Species	Impact
(Endangered)	the TEC due to clearing associated with the Proposed Action. Indirect impacts: increased weed invasion to retained areas of bushland; • Increased weed invasion in conservation areas; • Potential unauthorised public access/littering in conservation areas. Full details and rationale are provided in Appendix A
Carnaby's Black-Cockatoo (Endangered)	Direct impacts: • Foraging habitat: Loss of approximately 7.98 ha of high quality Carnaby's Black-Cockatoo foraging habitat as a result of clearing; • Breeding habitat: No significant impact (no potential breeding trees in the Proposed Action Area; closest known breeding site approximately 10 km to the north). Full details and rationale are provided in Appendix A

2.4.2 Do you consider this impact to be significant?

Yes

2.5 Is the proposed action likely to have ANY direct or indirect impact on the members of any listed migratory species, or their habitat?

No

2.6 Is the proposed action to be undertaken in a marine environment (outside Commonwealth marine areas)?

No

2.7 Is the proposed action to be taken on or near Commonwealth land?

No

2.8 Is the proposed action taking place in the Great Barrier Reef Marine Park?

No

2.9 Is the proposed action likely to have ANY direct or indirect impact on a water resource related to coal/gas/mining?

No



2.10 Is the proposed action a nuclear action?

No

2.11 Is the proposed action to be taken by the Commonwealth agency?

No

2.12 Is the proposed action to be undertaken in a Commonwealth Heritage Place Overseas?

No

2.13 Is the proposed action likely to have ANY direct or indirect impact on a water resource related to coal/gas/mining?

No



Section 3 - Description of the project area

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 in Section 2).

3.1 Describe the flora and fauna relevant to the project area.

Eco Logical Australia (ELA) conducted a Level 2 flora and Level 1 fauna survey on the site in November 2016 (ELA 2017). Vegetation broadly ranges from Banksia dominated shrublands and woodlands to historically cleared areas dominated by weeds. No Threatened or Priority flora species were found to be present within the Proposed Action Area.

Two broad fauna habitats (Banksia woodland, and Banksia shrubland) were identified within the Proposed Action Area. These habitats varied in quality from Degraded to Excellent. Carnaby's Black-Cockatoo foraging evidence was found throughout the Proposed Action Area.

The vegetation associations and likely fauna assemblages within the Proposed Action Area are likely to be present in nearby bushland of similar and better quality (Neerabup National Park, and Bush Forever Sites 130, 288 and 384, which are within 5 km of the Proposed Action Area).

3.2 Describe the hydrology relevant to the project area (including water flows).

There are no surface water features associated with the Proposed Action Area. Surface water originating from road runoff adjacent to the Proposed Action Area is directed into a regional stormwater drainage system. Groundwater movement generally occurs in a south-westerly direction towards the coast. The Perth Groundwater Atlas shows groundwater at between 48 and 50 m below ground level in this location.

There are no geomorphic wetlands within the Proposed Action Area. The closest wetland is Carabooda Lake, classified as a resource enhancement wetland, approximately 2.3 km to the north-east at its closest point. Nowergup Lake, which has been vested for conservation purposes, is approximately 2.9 km to the east at its closest point.

3.3 Describe the soil and vegetation characteristics relevant to the project area.



The Proposed Action Area occurs within the Perth subregion of the Swan Coastal Plain bioregion as defined by the Interim Biogeographic Regionalisation for Australia (IBRA). This subregion is described by Mitchell et al. (2002) as:

“A low lying coastal plain, mainly covered with woodlands dominated by *Banksia* or Tuart on sandy soils, *Casuarina obesa* on outwash plains, and paperbark in swampy areas. In the east, the plain rises to duricrusted Mesozoic sediments dominated by Jarrah woodland. It is composed of colluvial and Aeolian sands, alluvial river flats and coastal limestone.”

At a finer scale, the Proposed Action Area comprises low hilly, to gently undulating terrain situated on the Spearwood Dune System (Government of WA 2000). The Spearwood Dune System consists of a limestone ridge that runs parallel to the coastline from north to south, with shallow brown/bright yellow sands covering the ridge. Soils within this system are generally composed of well-drained and weathered pale-yellow quartz sands, which form coarse-textured soils that are poor in nutrients (Department of the Environment and Energy [DotEE] 2016).

A number of different soils are associated with the Spearwood Dune System, including the Cottesloe, Karrakatta and Herdsman associations (Government of WA 2000). The dominant soil type in the Proposed Action Area is Karrakatta sand (yellow phase), which typically exhibits a grey-brown sandy surface passing into bright yellow sand (often several metres deep over the limestone). Some areas of the Karrakatta sand are known to have shallow brown sandy soils over limestone with some visible occurrences of limestone at the surface.

Acid Sulphate Soils are not considered to be a risk for the Proposed Action Area.

Vegetation type and extent within the Proposed Action Area was originally mapped at a regional scale by Beard (1981), who categorised vegetation into broad vegetation associations. Based on Beard's (1981) mapping at a scale of 1:1,000,000, the Department of Primary Industries (formerly Department of Agriculture and Food) has compiled a list of the types and extent of vegetation associations across WA (Shepherd et al. 2002). One broad vegetation association occurs within the Proposed Action Area: Low *Banksia* Woodland (Shepherd vegetation association 949, Beard mapping unit bLi).

ELA undertook a site-specific flora and vegetation survey within the Proposed Action Area in November 2016 (a Level 2 flora and vegetation survey). This survey identified two Vegetation Associations within the Proposed Action Area as described below and depicted in **Figure 3**:

***Banksia attenuata* and *Banksia menziesii* low woodland (BaBmLW):** *Banksia attenuata* and *Banksia menziesii* low woodland over *Xanthorrhoea*, *Hibbertia hypericoides* subsp. *hypericoides*



and *Leucopogon polymorphus* open low heath over *Mesomelaena pseudostygia* very open sedgeland and **Briza maxima* and **Ehrharta calycina* very open grassland over *Burchardia congesta*, *Waitzia suaveolens* var. *suaveolens* and *Podotheca gnaphalioides* very open herbland.

Mixed *Banksia sessilis* open shrubland (BsXpHtTOS): *Banksia sessilis* var. *cygnorum*, *Xanthorrhoea preissii* and *Hakea trifurcata* tall open scrub over *Acacia pulchella* var. *glaberrima*, *Calothamnus quadrifidus*, *Acacia pulchella* var. *glaberrima* and *Hibbertia hypericoides* open low heath *Mesomelaena pseudostygia* and *Desmocladius fasciculatus* very open sedgeland and **Briza maxima* and *Microlaena stipoides* very open grassland over *Podotheca chrysantha*, *Acanthocarpus preissii* and *Waitzia suaveolens* var. *suaveolens* very open herbland.

The Vegetation Association BaBmLW has been determined to represent Floristic Community Type (FCT) FCT 28 *Spearwood Banksia attenuata* or *Banksia attenuata* - *Eucalyptus woodlands* as defined by Gibson et al. (1994). This Vegetation Association consequently represents the EPBC Act listed TEC '*Banksia Woodlands of the Swan Coastal Plain*', as it meets the key diagnostic characteristics set out under the *Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)* (s 266B) *Approved Conservation Advice (incorporating listing advice) for the Banksia Woodlands of the Swan Coastal Plain ecological community* (DotEE 2016b). Vegetation Association BsXpHtTOS does not represent any known TEC. Both Vegetation Associations are considered as foraging habitat for Carnaby's Black-Cockatoo.

The extent of the Banksia Woodlands TEC and Carnaby's Black-Cockatoo foraging habitat in the Proposed Action Area is depicted in **Figure 4** and **Figure 5** respectively.

3.4 Describe any outstanding natural features and/or any other important or unique values relevant to the project area.

There are no natural features or any other important or unique values relevant to the Proposed Action Area.

3.5 Describe the status of native vegetation relevant to the project area.

ELA (2017) assessed the vegetation condition of the Proposed Action Area using the Keighery (1994) vegetation condition scale for natural assessment. Vegetation condition within the Proposed Action Area ranged from Excellent to Completely Degraded (**Figure 6**).

3.6 Describe the gradient (or depth range if action is to be taken in a marine area) relevant to the project area.



The Proposed Action Area ranges from 45 meters above sea level (mASL) to 50 mASL and is characterised by flat to undulating terrain.

The Proposed Action Area is not situated in a marine area.

3.7 Describe the current condition of the environment relevant to the project area.

The Proposed Action Area is largely comprised of remnant native vegetation, however, has experienced a level of historic degradation related to surrounding urban development, informal access and clearing.

3.8 Describe any Commonwealth Heritage Places or other places recognised as having heritage values relevant to the project area.

There are no Commonwealth Heritage or other recognised heritage values relevant to the Proposed Action Area.

3.9 Describe any Indigenous heritage values relevant to the project area.

There are no Indigenous heritage values relevant to the Proposed Action Area.

3.10 Describe the tenure of the action area (e.g. freehold, leasehold) relevant to the project area.

- 1K Darbyshire Parade, Alkimos (Crown land, managed by the City of Wanneroo)
- 24 Halesworth Parade, Butler (freehold belonging to LWP Property – to be vested with the City of Wanneroo).

3.11 Describe any existing or any proposed uses relevant to the project area.

The Proposed Action Area is currently comprised of native vegetation in an urban setting. The proposed development will “activate” this area by creating playing fields, netball courts, a sports pavilion and associated infrastructure for public use.

A network of conservation areas (totalling 1.40 ha) will also be established within the Proposed Action Area, which will be comprised of 0.98 ha of the Banksia Woodland TEC, also considered as high quality Carnaby’s Black-Cockatoo habitat (**Figure 2**). The remaining 0.42 ha will be



revegetated with native species as per EPBC 2009/5155.



Section 4 - Measures to avoid or reduce impacts

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.

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.

4.1 Describe the measures you will undertake to avoid or reduce impact from your proposed action.

The Proposed Action Area has been identified for development of a District Open Space Area in various planning documents over a significant period of time. Additionally, EPBC Act approvals EPBC2008/4601 and EPBC 2009/5155 granted to LWP and Satterley Property Group respectively (as well as associated offsets), incorporated the clearing and development of the Proposed Action Area.

Conservation areas (totalling 1.40 ha; **Figure 2**) have been incorporated into the Proposed Action Area to minimise impacts to the Banksia Woodlands TEC and Carnaby's Black-Cockatoo habitat, as well as comply with the Vegetation Management Plan approved under EPBC 2009/5155.

The Proponent will implement environmental management strategies to further reduce, and potentially avoid, any impacts to MNES associated with clearing activities. These will include:

Fencing of conservation areas prior to clearing commencing;

Clearly delineating clearing boundaries;

Suspending clearing if Carnaby's Black-Cockatoos are sighted within the Proposed Action Area and not recommencing until the birds have left the area; and

Undertaking management works in conservation areas to address indirect impacts of weed invasion.

4.2 For matters protected by the EPBC Act that may be affected by the proposed action, describe the proposed environmental outcomes to be achieved.



The Proposed Action will result in:

Clearing of 7.82 ha of the Banksia Woodlands TEC; and Clearing of 7.98 ha of high quality Carnaby's Black-Cockatoo foraging habitat.

The proposed clearing may result in a significant impact to the Banksia Woodlands TEC. Impacts to Carnaby's Black-Cockatoo are not expected to be significant given the small extent of clearing, mobility of Carnaby's Black-Cockatoos and the extent of similar quality foraging habitat protected in surrounding areas, including Bush Forever Sites, National Parks, Regional Parks and other reserves. Refer to **Appendix A** for a detailed impact assessment.

Historical EPBC Act approvals exist over the Proposed Action Area (Lot 3 Romeo Road, Alkimos Local Structure Plan and Lot 9049 Marmion Avenue, Butler Structure Plan), both of which have been approved as Controlled Actions under the EPBC Act (EPBC 2008/4601 and EPBC 2009/5155 respectively). Both of these approvals involved offsets to mitigate impacts to Carnaby's Black-Cockatoos which are summarised below:

EPBC 2008/4601: Acquisition of 459 ha of Carnaby's Black-Cockatoo habitat north of Gingin; and

A pro-rata contribution to acquire 477 ha of Carnaby's Black-Cockatoo habitat east of Badgingarra; EPBC 2009/5155: Acquisition of 1250 ha of Carnaby's Black-Cockatoo habitat in the Regan's Ford or Badgingarra regions.



Section 5 – Conclusion on the likelihood of significant impacts

A checkbox tick identifies each of the matters of National Environmental Significance you identified in section 2 of this application as likely to be a significant impact.

Review the matters you have identified below. If a matter ticked below has been incorrectly identified you will need to return to Section 2 to edit.

5.1.1 World Heritage Properties

No

5.1.2 National Heritage Places

No

5.1.3 Wetlands of International Importance (declared Ramsar Wetlands)

No

5.1.4 Listed threatened species or any threatened ecological community

Listed threatened species and communities - Yes

5.1.5 Listed migratory species

No

5.1.6 Commonwealth marine environment

No

5.1.7 Protection of the environment from actions involving Commonwealth land

No

5.1.8 Great Barrier Reef Marine Park

No

5.1.9 A water resource, in relation to coal/gas/mining

No



5.1.10 Protection of the environment from nuclear actions

No

5.1.11 Protection of the environment from Commonwealth actions

No

5.1.12 Commonwealth Heritage places overseas

No

5.2 If no significant matters are identified, provide the key reasons why you think the proposed action is not likely to have a significant impact on a matter protected under the EPBC Act and therefore not a controlled action.

The Proposed Action will result in the following impacts to MNES:

the loss of 7.82 ha of the Banksia Woodlands TEC; and

the loss of 7.98 ha of high quality Carnaby's Black-Cockatoo foraging habitat.

These impacts are considered to be significant and may result in a Controlled Action.



Section 6 – Environmental record of the person proposing to take the action

Provide details of any proceedings under Commonwealth, State or Territory law against the person proposing to take the action that pertain to the protection of the environment or the conservation and sustainable use of natural resources.

6.1 Does the person taking the action have a satisfactory record of responsible environmental management? Please explain in further detail.

Yes. The City has a satisfactory record of responsible environmental management.

6.2 Provide details of any past or present proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources against either (a) the person proposing to take the action or, (b) if a permit has been applied for in relation to the action – the person making the application.

There are no proceedings against the City.

6.3 If it is a corporation undertaking the action will the action be taken in accordance with the corporation's environmental policy and framework?

No

6.4 Has the person taking the action previously referred an action under the EPBC Act, or been responsible for undertaking an action referred under the EPBC Act?

Yes

6.4.1 EPBC Act No and/or Name of Proposal.

Flynn Drive / Pinjar Road Intersection (2017/7983)

Works, Lot 9000 Flynn Drive, Neerabup, WA (2007/3479);

Ocean Reef extension (Hartman to Gnangara) stage 1 (2010/5388);

Ocean Reef Rd - Section 2 (to Sydney Rd -Lot7) (2010/5388);



Pinjar Road realignment (Caporn St intersection) (2009/4926); and

Ocean Reef Rd - Section 3 & 4 (Sydney Rd to Alexander) (2010/5388).



Section 7 – Information sources

You are required to provide the references used in preparing the referral including the reliability of the source.

7.1 List references used in preparing the referral (please provide the reference source reliability and any uncertainties of source).

Reference Source	Reliability	Uncertainties
Beard, J. S. 1981. Swan 1:1,000,000 vegetation series: explanatory notes to sheet 7: The vegetation of the Swan area. Nedlands, W.A. University of Western Australia.	Reliable	No uncertainties
Cale, B. 2003. Carnaby's Black-Cockatoo (<i>Calyptrorhynchus latirostris</i>) Recovery Plan 2002 – 2012. Western Australian Wildlife Management Program No. 36 Perth, Department of Conservation and Land Management Western Australian Threatened Species and Communities Unit.	Reliable	No uncertainties
Department of the Environment (DotE) (2013) Matters of National Environmental Significance. Significant Impact Guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999. Commonwealth of Australia.	Reliable	No uncertainties
Department of the Environment and Energy (DotEE). 2016. Australia's bioregions (IBRA). Available from: https://www.environment.gov.au/land/nrs/science/ibra	Reliable	No uncertainties
Department of the Environment and Energy (DotEE) 2016. Approved Conservation Advice (incorporating listing advice) for the Banksia Woodlands of the	Reliable	No uncertainties



Reference Source	Reliability	Uncertainties
Swan Coastal Plain Ecological Community. Available from: http://www.environment.gov.au/cgi-bin/sprat/public/publicshowcommunity.pl?id=131		
Department of the Environment and Energy (DotEE). 2017a. EPBC Protected Matters Search Tool (PMST). Available from: http://www.environment.gov.au/epbc/pmst/ .	Reliable	No uncertainties
Department of the Environment and Energy (DotEE). 2017b. Species Profile and Threats Database (SPRAT). Available from: http://www.environment.gov.au/cgi-bin/sprat/public/sprat.pl .	Reliable	No uncertainties
Department Parks and Wildlife (DPaW). 2007-. NatureMap: Mapping Western Australia's biodiversity. Available from: http://NatureMap.dec.wa.gov.au/default.aspx .	Reliable	No uncertainties
Department of Parks and Wildlife (DPaW) (now Department of Biodiversity, Conservation and Attractions) 2017a. Threatened and Priority Flora database search. Reference number 31-1116FL. Department of Parks and Wildlife, Perth.	Reliable	No uncertainties
Department of Parks and Wildlife (DPaW) (now Department of Biodiversity, Conservation and Attractions) 2017b. Threatened and Priority Fauna database search. Reference number FAUNA#5364. Department of Parks and Wildlife, Perth.	Reliable	No uncertainties
Department of Planning 2011. Metropolitan Region Scheme (MRS) - potential habitat for the Carnaby's Black Cockatoo	Reliable	No uncertainties



Reference Source	Reliability	Uncertainties
which may require further assessment.		
Department of Primary Industries and Regional Development (DPIRD) 2017. Western Australian Organism List. Available from: https://www.agric.wa.gov.au/bam/western-australian-organism-list-waol .	Reliable	No uncertainties
Department of Sustainability, Environment, Water, Population and Communities (SEWPaC) (2012) Environment Protection and Biodiversity Conservation Act 1999 referral guidelines for three threatened black cockatoo species: Carnaby's cockatoo (endangered) <i>Calyptorhynchus latirostris</i> ; Baudin's cockatoo (vulnerable) <i>Calyptorhynchus baudinii</i> ; Forest red?tailed black cockatoo (vulnerable) <i>Calyptorhynchus banksii naso</i> . Commonwealth of Australia.	Reliable	No uncertainties
Department of Water and Environmental Regulation (DWER). 2017. Department of Environment Regulation Clearing Permit System. Available from: https://cps.der.wa.gov.au/main.html	Reliable	No uncertainties
Environmental Protection Authority (EPA). 2004a. Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia. Guidance Statement No. 51. Perth, Western Australia.	Reliable	No uncertainties
Environmental Protection Authority (EPA). 2004b. Terrestrial Fauna Surveys for Environmental Impact Assessment in Western Australia. Guidance Statement	Reliable	No uncertainties



Reference Source	Reliability	Uncertainties
No. 56. Perth, Western Australia.		
Environmental Protection Authority (EPA) and Department of Environment and Conservation (DEC). 2010. Technical Guide – Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment (eds B.M. Hyder, J. Dell and M.A Cowan). Perth, Western Australia.	Reliable	No uncertainties
Eco Logical Australia (ELA) 2017. Flora and fauna survey for the proposed Butler North District Open Space Project. Report prepared for the City of Wanneroo. Perth, Western Australia.	Reliable	No uncertainties
Gibson, N., Keighery, B.J., Keighery, G.J., Burbidge, A.H. and Lyons, M.N. 1994. A Floristic Survey of the Southern Swan Coastal Plain. Report prepared for the Australian Heritage Commission. Western Australian Department of Conservation and Land Management, and Western Australia Conservation Council.	Reliable	No uncertainties
Government of Western Australia 2000. Bush Forever – Keeping the Bush in the City –Volume 2: Directory of Bush Forever Sites. Perth, Western Australia	Reliable	No uncertainties
Government of Western Australia (WA). 2009. SLIP Enabler. Available from: https://www2.landgate.wa.gov.au/web/guest/home	Reliable	No uncertainties
International Union for Conservation of Nature (ICUN) 2017. The ICUN Red List of Threatened species. Available from:	Reliable	No uncertainties



Reference Source	Reliability	Uncertainties
http://www.iucnredlist.org/. Accessed July 2017.		
Johnstone, R.E. and Kirkby, T. 1998. Handbook of Western Australian Birds. Volume 1: Non-passerines (Emu to Dollarbird). Perth.	Reliable	No uncertainties
Keighery, B.J. (1994). Bushland plant survey. A guide to plant community survey for the community. Wildflower Society of WA (Inc.). Nedlands, Western Australia.	Reliable	No uncertainties
Mitchell, D., Williams, K. and Desmond, A. 2002. Swan Coastal Plain 2 (SWA2 – Swan Coastal Plain subregion) in: A Biodiversity Audit of Western Australia's 53 Biogeographical Subregions in 2002.	Reliable	No uncertainties
Saunders, D.A. 1980. Food and movements of the short-billed form of the White-tailed Black Cockatoo. Australian Wildlife Research, 7, 257-69.	Reliable	No uncertainties
Shepherd, D P, Beeston, G R, and Hopkins, A J. 2002, Native vegetation in Western Australia: extent, type and status. Department of Agriculture and Food, Western Australia. Report 249.	Reliable	No uncertainties
Shah, B. 2006. Conservation of Carnaby's Black-Cockatoo on the Swan Coastal Plain, Western Australia. Project Report, Birds Australia Western Australia, Perth.	Reliable	No uncertainties
Western Australian Herbarium (WAH) 1998-. FloraBase—the Western Australian Flora. Department of Parks and Wildlife. Available from: http://florabase.dpaw.wa.gov.au/ .	Reliable	No uncertainties



Section 8 – Proposed alternatives

You are required to complete this section if you have any feasible alternatives to taking the proposed action (including not taking the action) that were considered but not proposed.

8.0 Provide a description of the feasible alternative?

There are no feasible alternatives. The Proposed Action Area has been proposed for the development of District Open Space since it was zoned Urban as part of Structure Plans for the broader area post 2005 and was included in plans supporting EPBC Act approvals EPBC2008/4601 and EPBC 2009/5155 granted to LWP and Satterley Property Group respectively. This is a significant part of the proposed development in the Butler region.

8.1 Select the relevant alternatives related to your proposed action.

8.27 Do you have another alternative?

No



Section 9 – Contacts, signatures and declarations

Where applicable, you must provide the contact details of each of the following entities: Person Proposing the Action; Proposed Designated Proponent and; Person Preparing the Referral. You will also be required to provide signed declarations from each of the identified entities.

9.0 Is the person proposing to take the action an Organisation or an Individual?

Organisation

9.2 Organisation

9.2.1 Job Title

Director Assets

9.2.2 First Name

Harminder

9.2.3 Last Name

Singh

9.2.4 E-mail

harminder.singh@wanneroo.wa.gov.au

9.2.5 Postal Address

23 Dundobar Road
Wanneroo WA 6065
Australia

9.2.6 ABN/ACN

ABN

64295981165 - CITY OF WANNEROO

9.2.7 Organisation Telephone

(08) 9405 5000



9.2.8 Organisation E-mail

harminder.singh@wanneroo.wa.gov.au

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

Not applicable

Small Business Declaration

I have read the Department of the Environment and Energy's guidance in the online form concerning the definition of a small a business entity and confirm that I qualify for a small business exemption.

Signature:..... Date:

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

No

9.2.9.3 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

Person proposing the action - Declaration

I, HARMINDER SINGH, declare that to the best of my knowledge the information I have given on, or attached to the EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence. I declare that I am not taking the action on behalf of or for the benefit of any other person or entity.

Signature: [Signature] Date: 22.09.2017

I, HARMINDER SINGH, the person proposing the action, consent to the designation of City of Wanneroo as the proponent of the purposes of the action describe in this EPBC Act Referral.

Signature: [Signature] Date: 22.09.2017

9.3 Is the Proposed Designated Proponent an Organisation or Individual?



Organisation

9.5 Organisation

9.5.1 Job Title

Director Assets

9.5.2 First Name

Harminder

9.5.3 Last Name

Singh

9.5.4 E-mail

harminder.singh@wanneroo.wa.gov.au

9.5.5 Postal Address

23 Dundobar Road
Wanneroo WA 6065
Australia

9.5.6 ABN/ACN

ABN

64295981165 - CITY OF WANNEROO

9.5.7 Organisation Telephone

(08) 9405 5000

9.5.8 Organisation E-mail

harminder.singh@wanneroo.wa.gov.au

Proposed designated proponent - Declaration

I, HARMINDER SINGH, the proposed designated proponent, consent to the designation of myself as the proponent for the purposes of the action described in this EPBC Act Referral.



Signature:..... Date:

9.6 Is the Referring Party an Organisation or Individual?

Organisation

9.8 Organisation

9.8.1 Job Title

Senior Consultant

9.8.2 First Name

Daniel

9.8.3 Last Name

Panickar

9.8.4 E-mail

danielp@ecoaus.com.au

9.8.5 Postal Address

235 Saint Georges Terrace
Perth WA 6000
Australia

9.8.6 ABN/ACN

ABN

87096512088 - ECO LOGICAL AUSTRALIA PTY LTD

9.8.7 Organisation Telephone

(08) 6218 2200

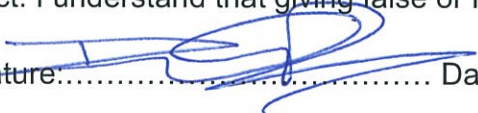
9.8.8 Organisation E-mail

danielp@ecoaus.com.au

Referring Party - Declaration



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

Signature:  Date: 22/9/2017



Appendix A - Attachments

The following attachments have been supplied with this EPBC Act Referral:

1. 2008_4601_approval.pdf
2. 2009_5155_approval.pdf
3. 5856_cow_butler_north_epbc_referral_appa_v1.pdf
4. cow_butler_dos_flora_fauna_report_v3_reduced_size.pdf
5. fig_1_study_area_20170726.pdf
6. fig_2_site_layout_20170816.pdf
7. fig_3_veg_association_20170816.pdf
8. fig_4_banksia_woodland_tec_20170816.pdf
9. fig_5_cbc_habitat_20170816.pdf
10. fig_6_veg_condition_20170816.pdf
11. fig_7_cbc_locations_20170913.jpg