**Nomination form for listing a species as Extinct or Extinct in the wild under the NSW *Biodiversity Conservation Act 2016***

Background

The purpose of this form is to provide a nomination to the NSW Threatened Species Scientific Committee (NSW TSSC) to list a species as Extinct or Extinct in the wild under Schedule 3 of the NSW *Biodiversity Conservation Act 2016* (BC Act)). Please refer to the NSW TSSC Nomination Background Information document and the NSW TSSC Guidelines for information on the BC Act and criteria in the *Biodiversity Conservation Regulation 2017* (BC Regulation).

For a species to be found eligible to be listed as Extinct or Extinct in the wild evidence must be provided to demonstrate that the species no longer occurs in NSW and that adequate targeted surveys have been performed to support this conclusion. Listing a species as extinct removes all legal protection under the BC Act. The criteria for listing a species as extinct under the BC Act (Part 4, Division 2, Section 4.6) are:

(1)  A species is eligible to be listed as an Extinct species at a particular time if, in the opinion of NSW TSSC, there is no reasonable doubt that the last member of the species in Australia has died in the wild.

(2)  A species is eligible to be listed as a species Extinct in the wild at a particular time if, in the opinion of the NSW TSSC:

(a)  it is known only to survive in Australia in cultivation, in captivity or as a naturalised population well outside its past range, or

(b)  it has not been recorded in its known or expected habitat in Australia, despite targeted surveys, over a time frame appropriate, in the opinion of the NSW TSSC, to its life cycle and form.

(3)  If, in the opinion of the Scientific Committee, a species is extinct or extinct in the wild in New South Wales but not Australia, it is to note that fact in a listing of the species in Schedule 1.

How to complete the nomination form

This nomination form consists of a series of questions to help you provide the information necessary to address the criteria in the BC Act and BC Regulation. Note, terms used in the nomination form and marked with asterisk (\*) are defined in section 5 of the NSW TSSC Nomination Background Information document.

The NSW TSSC recognises that completing a nomination form is demanding due to the volume and detail of information that is required to undertake an assessment to determine the eligibility for listing a species as extinct. Nominators are encouraged to seek expert advice where appropriate to assist in the completion of the nomination form. Complete as much of the nomination form as you can. While the NSW TSSC will seek advice from other sources, any information not provided in the nomination may delay the assessment process.

Include references to published journal articles or other material that support the information you have provided. Unsupported or anecdotal information may not provide sufficient evidence to demonstrate the species does not meet the criteria for listing.

If there is insufficient information to enable details to be provided because of a lack of scientific data or analysis please include any information that is available or provide a statement next to the relevant question identifying that the data or analysis is not available.

Do not quote or provide information you have obtained from other people (usually referenced as personal communications) unless you have obtained the agreement of those people to use those statements in the nomination.

Indicate if you are providing information you have obtained on a confidential basis or data under a data licence that prohibits its release to other parties and if you have obtained permission to publicly release the confidential information or data.

Ensure you know and agree to how the NSW TSSC will use and share your nomination and the information contained in the nomination and any attachments including your personal details by signing the declaration section. If you request confidentiality please ensure you have you have not included your personal information, or any information that can be used to identify you, in the nomination or attachments.

**DO NOT DELETE ANY SECTION OF THE NOMINATION FORM INCLUDING SECTIONS LEFT BLANK**

Lodgement of nomination

The original, signed hard copy of the nomination can be posted or scanned and a pdf emailed to:

The Chairperson,

NSW Threatened Species Scientific Committee

PO Box 1967

HURSTVILLE BC NSW 1481

[Scientific.committee@environment.nsw.gov.au](mailto:Scientific.committee@environment.nsw.gov.au)

In addition to the signed copy, completed nominations can also include supporting documentation in WORD, Excel (may be used for data) or PDF formats.

**Nomination form for listing a species as Extinct or Extinct in the wild under the NSW *Biodiversity Conservation Act 2016***

**1. General information**

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| 1.1 Scientific name and author of the species, or phrase name if undescribed (for the purposes of the BC Act subspecific taxa such as subspecies and varieties, are called species). List any synonyms. | | | | | |
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| Synonyms: | | | | | |
| 1.2 Common name(s) (if any) by which the species is known. | | | | | |
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| 1.3 Is the species endemic to NSW (i.e. is/was the species only found in NSW)? | | | | | |
| Yes | | | | No, provide other states or territories | |
| 1.4 Has the species been recorded in the following areas? | | | | | |
| Lord Howe Island: | | | Australian Capital Territory: | | |
| 1.5 Is the species currently listed under the NSW BC Act? If so, what is the threat category? | | | | | |
| Critically Endangered | Endangered | | | Vulnerable | Not Listed |
| 1.6 Is the species currently listed under the Commonwealth *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act)? If so, what is the threat category? | | | | | |
| Critically Endangered  Endangered | Vulnerable  Conservation Dependent | | | Extinct  Extinct in the wild | Not Listed |
| 1.7 Is the species listed as threatened under legislation in other State or Territories in Australia?  If so, please list the jurisdiction and threat category? | | | | | |
| Jurisdiction: | | Threat category: | | | |
| Jurisdiction: | | Threat category: | | | |
| Jurisdiction: | | Threat category: | | | |
| Jurisdiction: | | Threat category: | | | |
| Jurisdiction: | | Threat category: | | | |

**2. Species information**

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| 2.1 Is the species conventionally accepted? (eg, for plants by the National Herbarium of NSW (see in PlantNET), the Council of Heads of Australasian Herbaria (CHAH) (the Australian Plant Census), for animals, the Australian Biological Resources Study (ABRS) (see the Australian Faunal Directory (AFD)), for fungi Index Fungorum (http://www.indexfungorum.org/Names/Names.asp) and/or the Mycobank Database (http://www.mycobank.org/), and/or in any other scientific literature or research).  If the species is conventionally accepted, provide a description of the species and the source of the description. |
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| 2.2 If the species is not conventionally accepted, please provide:   * a description of the species in a form suitable for publication in conventional scientific literature (attach the information to this form); information on the morphological features that distinguish this species from other species, how distinct is the species and is it likely to be misidentified as another species in field observations. * for an undescribed (new) species indicate in which scientific institution(s) specimens are housed and provide collection/reference numbers.  Institution (s): …………………………………………………………………………………..  Collection/reference number (s): ………………………………………………………………. |
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**3. Geographic Distribution**

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| 3.1 Describe the species’ past distribution in Australia and attach a map/s of the known distribution and sites. Is the species extant outside Australia, and if so, where? | | | |
|  | | | |
| 3.2 Provide a summary of recent records and if necessary, attach relevant dataset(s). For any recent contentious records, please provide an analysis of their reliability (identification, location, source, observation environmental conditions at time of observation etc.). | | | |
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| 3.3 Detail the site, land tenure, survey date(s), and date of records including an estimated number of individuals of the species at the time (where applicable). | | | |
| Site (include latitude & longitude) | Land tenure | Date(s) of all surveys, or records and their source | Number of individuals at site (mature\*, juveniles) |
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| 3.3 Include any other relevant information for these sites. | | | |
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| 3.4 Has the species been adequately surveyed under suitable conditions? Please document survey effort and results and describe the environmental conditions which surveys were undertaken. Have all known locations been surveyed? How accessible is the area of suitable habitat? Note: to be listed as extinct, IUCN (2017) requires that “exhaustive surveys have been undertaken in all known or likely habitat throughout its historic range, at appropriate times (diurnal, seasonal, annual) and over a timeframe appropriate to its life cycle and life form". | | | |
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| 3.5 Is the species known only from the type specimen? | | | |
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**4. Species ecology/biology**

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| 4.1 Describe the species’ habitat. | |
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| 4.2 Provide a description of the life cycle of the species. If possible, provide details for the length of time for juveniles to mature individuals, longevity, and the estimated generation length\*. |
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| * 1. 4.3 Provide any details, including level of knowledge, on:   Fauna: Key habitat requirements, breeding biology, diet, social biology, territoriality/home range.  Flora/fungi/algae: Environmental requirements, evidence for ongoing recruitment or otherwise (including any information on pollination biology or seed bank dynamics or dormant life stages). |
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| * 1. 4.4 What is the dispersal mechanism for the species and how far is it likely to disperse/be dispersed? |
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| 4.5 How does the species respond to disturbance such as fire, floods, drought, storms? |
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| 4.6 Is there any other information regarding the species ecology or biology relevant to understanding the reason for the species’ extinction? |
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**5. Species Abundance**

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| 5.1 Describe the previously known population structure and abundance at known sites. Was there evidence of ongoing successful recruitment? |
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| 5.2 Does this species persist in cultivation, captivity or as naturalised populations outside the historical distribution? |
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**6. Extreme Fluctuations**

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| 6.1 Was there any evidence of extreme fluctuations\* in:  i. the species’ abundance in Australia and NSW; |
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| ii. the species’ geographic distribution\* in Australia and NSW. |
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| iii. the number of locations\* in Australia and NSW. |
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| iv. the number of (sub)populations\* in Australia and NSW. |
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| 6.2. If there were extreme fluctuations, detail the life history traits of the species and/or environmental factors associated with the fluctuations. |
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**7. Threats**

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| 7.1 Identify threats that have affected this species.  For each threat describe:   1. how and where the threat affected this species 2. what the effect of the threat was (indicate whether it is known or suspected) 3. if the threat is ongoing and what is the expected effect of the threat in the future in the habitat where the nominated species formerly occurred. 4. any relevant Key Threatening Processes (KTP’s) as listed under the BC Act (KTPs are listed in Schedule 4 of the BC Act). | | | | |
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| 7.2 Where possible, provide information on threats for each previously known occurrence/site. List all sites given in 3.3, indicating if information is unavailable for certain sites. | | | | |
| Occurrence/Site | Threat | Impact on the species and/or its habitat | Has the threat ceased or is it ongoing | Current management activities |
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| 7.3 Were identified threats sufficiently severe and prolonged to cause local extinction? | | | | |
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| 7.4 Were identified threats sufficiently extensive to eliminate all occurrences? | | | | |
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| 7.5 Identify any key management documents for the species e.g. recovery plans, conservation plans, threat abatement plans etc. | | | | |
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**8. Fragmentation of the species population or habitat**

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| 8.1 Was there evidence of severe fragmentation\* of the species populations\*, geographic distribution\* or habitat? If so, specify the nature and degree of the isolation between populations, and species movement between populations or habitat patches. |
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| 8.2 Are there any barriers or processes (biological, abiotic, geographic, human induced or other barriers) operating to reduce habitat patch size, increase habitat patch isolation, or reduce species movement? |
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**9. Population Reduction**

All estimates of reductions need to specify the time period over which they were observed, estimated, inferred or suspected to have occurred. The assessment needs to be over a time frame appropriate to the life cycle and habitat characteristics of the species (i.e. 3 generations or 10 years, whichever is the longer). Provide details for any assumptions made in inferring generation length, or rates of decline.

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| 9.1 Prior to extinction, is there evidence and estimates of the magnitude of past reductions based on any of the following:   1. the species’ abundance (number of mature individuals\*) in Australia and NSW; |
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| 1. the species’ geographic distribution\* (area of occupancy, extent of occurrence) in Australia and NSW; |
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| 1. the area, extent and/or quality of habitat in Australia and NSW; |
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| 1. actual or potential levels of exploitation of the species. |
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| 1. the effects of introduced taxa, hybridization, pathogens, pollutants, competitors or parasites. |
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**10. Appendices and Information sources**

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| --- | --- |
| 10.1 If you have attached any information to his nomination please list or describe the information below. | |
| Appendix 1 |  |
| Appendix 2 |  |
| 10.2 Has this document been refereed? If so, indicate by whom? | |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Postal Address | Telephone | Email |
|  |  |  |  |
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| 10.3 Document all written sources, published and unpublished. Where information is not freely available please include a copy. |
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| 10.4 List any other experts, researchers or organisations relevant to the assessment of this species. |
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**Privacy information**

The information you provide in this nomination form will be used by the NSW TSSC in the assessment to determine the conservation status and listing or delisting of threatened or extinct species and threatened or collapsed ecological communities.

The NSW TSSC may forward your nomination to other people, researchers and organisations to seek advice on the information provided and/or to obtain more information relevant to the assessment and management of the species.

The NSW Government has agreed with the Commonwealth and other state and territory governments to collaborate on national threatened species assessments using a common assessment method. Your nomination, including your details as nominator, may be provided to state and territory government agencies and scientific committees as part of this collaboration unless you have requested that your personal information be treated as confidential and you have not included your personal information in the nomination or attachments.

Individuals can access their personal information or request a correction of personal information held by the NSW TSSC by contacting the NSW TSSC’s Executive Officer.

The NSW TSSC has adopted the procedures set out in the DPE Cluster Privacy Management Plan (PMP). The PMP defines personal information and provides details about the privacy principles that the NSW TSSC follows when dealing with personal information.

**11. Nominator information**

**Declaration**

I declare that the information in this nomination and any attachments is true and correct to the best of my knowledge.

I permit the NSW Threatened Species Scientific Committee to provide a copy of the nomination and any attachments to other people or organisations for expert comment or advice.

I permit the NSW Threatened Species Scientific Committee to provide location details or data included in the nomination and any attachments to the Office of Environment and Heritage for inclusion in GIS databases managed by OEH, including publicly accessible databases.

I permit the NSW Threatened Species Scientific Committee to use, reproduce, publish, communicate and distribute information (see also 11.2) contained in the nomination and any attachments, in Committee publications including determinations, assessment reports, documents for public information and on the Committee’s website.

I permit the NSW Threatened Species Scientific Committee to provide a copy of the nomination and any attachments to Commonwealth, State and Territory government agencies and associated committees or other bodies undertaking threatened species and ecological community assessments for those agencies.

Signed: Date:

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| 11.1 Nominator’s details | | |
| Name |  | |
| Organisation |  | |
| Postal address  (required information) |  | |
| Email |  | |
| Phone |  | |
| 11.2 Do you wish the information provided in the Nominator’s details section to be regarded as confidential? | |
| **Yes / No**  **If you have requested confidentiality please ensure you have you have not included your personal information, or any information that can be used to identify you, in the nomination or attachments.** | |

**Please note**: The Committee is subject to the provisions of the Government Information (Public Access) Act 2009 and access to the nomination and any accompanying information may be sought in accordance with that Act.

**References**

Australian Plant Census (APC) Council of Heads of Australasian Herbaria (CHAH). <https://biodiversity.org.au/nsl/services/APC>

Australian Faunal Directory (AFD) Australian Biological Resources Study. [Department of the Environment and Energy](http://www.environment.gov.au/). <https://biodiversity.org.au/afd/home>

Index Fungorum (<http://www.indexfungorum.org/Names/Names.asp>

IUCN (2017) IUCN Standards and Petitions Subcommittee. Guidelines for Using the IUCN Red List Categories and Criteria. Version 13. Prepared by the Standards and Petitions Subcommittee. <http://cmsdocs.s3.amazonaws.com/RedListGuidelines.pdf>

Mycobank Database (<http://www.mycobank.org/>)

NSW Biodiversity Conservation Act 2016. <https://www.legislation.nsw.gov.au/~/view/act/2016/63>

NSW Biodiversity Regulation 2017. https://www.legislation.nsw.gov.au/~/view/regulation/2017/432

NSW TSSC (2018) Nomination Background Information document. http://www.environment.nsw.gov.au/committee/HowToNominateASpeciesAsThreatened.htm

NSW TSSC (2018) Guidelines. <http://www.environment.nsw.gov.au/committee/scientificcommitteepublications.htm>

PlantNET (The NSW Plant Information Network System). Royal Botanic Gardens and Domain Trust, Sydney. http://plantnet.rbgsyd.nsw.gov.au