

Hornsby Shire Heritage Review -Stage 4

Volume 1 of 4

Part A: Review of Heritage Listed Trees
Beecroft – Hornsby



H O R N S B Y S H I R E C O U N C I L

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2. *Appendix:*

Inventory Sheets - Heritage Listed Trees (Phase 1)

(sorted by suburb alphabetically)

List of Suburbs:	No. of Items:
• Beecroft	14
• Cheltenham	6
• Epping	6
• Hornsby	12

Volume 2 of 4 (Part A: Phase 1)

Review of Heritage Listed Trees (Normanhurst – West Pennant Hills)

Prepared by: LandArc Pty Limited

3. *Appendix:*

Inventory Sheets - Heritage Listed Trees (Phase 1)

(sorted by suburb alphabetically)

List of Suburbs:	No. of Items:
• Normanhurst	9
• Pennant Hills	7

• Thornleigh	6
• Wahroonga	7
• Waitara	1
• West Pennant Hills	3

Volume 3 of 4 (Part A: Phase 2)

Review of Heritage Listed Trees (Arcadia – Mt Colah)

Prepared by: LandArc Pty Limited

4. Appendix:

Inventory Sheets - Heritage Listed Trees (Phase 2)

(sorted by suburb alphabetically)

List of Suburbs:	No. of Items:
• Arcadia	3
• Asquith	5
• Berowra	4
• Berowra Heights	2
• Castle Hill	1
• Cherrybrook	2
• Cowan	1
• Dangar Island	1
• Dural	3
• Galston	4
• Glenhaven	1
• Hornsby Heights	3
• Mt Colah	1

Volume 4 of 4 (Part B)

Review of Items

Prepared by: Patrick O'Carrigan + Partners in association with
LandArc Pty Limited.

5. Appendix:

Inventory Sheets - Items

(sorted by suburb alphabetically)

List of Suburbs:	No. of Items:
• Arcadia	1
• Beecroft	5
• Berowra	1
• Berowra Heights	1
• Berrilee	1
• Cheltenham	1
• Cowan	1
• Dangar Island	1
• Dural	1
• Epping	3
• Glenorie	1
• Hornsby	4
• Maroota	1
• North Epping	1
• Pennant Hills	11
• Thornleigh	3
• Wahroonga	11

1. Introduction

1.1 Background

To ensure the important heritage qualities and character of Hornsby Shire are maintained, Hornsby Shire Council has included heritage provisions in the Hornsby Shire Local Environmental Plan (HSLEP) 1994 and guidelines in the Heritage Development Control Plan. The HSLEP lists over 800 heritage items and five Heritage Conservation Areas.

The Heritage Review Stage 4 – Review of Heritage Listed Trees and Items is part of a process commenced in 1995 to review heritage listings in Schedule D (Heritage Items) of the HSLEP 1994. The review process was expanded to allow a staged program to thoroughly review items, including further requests for inclusion or removal of items (ie. completion of Stage 1 in 1997, Stage 2 in 1999 and Stage 3 in 2004).

This Stage 4 Review includes both heritage listed trees (ie. individuals and groups) largely compiled from the Hornsby Shire Heritage Study (HSHS 1993) and other items. A number of property owners have requested that their property be included in, or removed from, the list of heritage items. Furthermore, Council has received nominations for inclusion of additional items from community groups and individual members of the community (refer to *1.7 Consultation*). Hornsby Shire Council at its meeting on 7 February 2007 endorsed the content and direction of Heritage Review Stage 4, including a review of heritage listed trees and items.

1.2 Brief

The Heritage Review Stage 4 – Review of Heritage Listed Trees and Items has the following objectives:

1. *Review of Heritage Listed Trees*

- *To investigate and assess the heritage significance of the nominated listed trees;*
- *To investigate and assess the physical condition of the nominated heritage listed trees; and*
- *To make recommendations for the inclusion or removal of items within Schedule D of the HSLEP 1994.*

2. *Review of Items*

- *To investigate and assess the heritage significance of the nominated properties;*
- *To make recommendations for the inclusion or removal of items within Schedule D of the HSLEP 1994; and*
- *To formulate Statements of Significance that address the heritage qualities of the properties recommended for inclusion in the heritage list.*

The tasks include the following:

1. *Review of Heritage Listed Trees*

- *The historical significance of each heritage listed tree (or stand of trees) in relation to local historical themes;*
- *The physical health and condition of the heritage listed trees; and*
- *The nature and level of each item's heritage significance in accordance with the Heritage Office's Guidelines.*

2. *Review of Items*

- *The history of each property in relation to local historical themes;*
- *The physical heritage qualities of the various items including built and natural elements;*
- *The nature and level of each item's significance culminating in a Statement of Significance for each item in accordance with the Heritage Office's Guidelines; and*
- *The preparation of an inventory sheet for each item recommended for inclusion in Schedule D of the HSLEP 1994.*

1.3 Study Output

The report outcomes are divided into two separate components in accordance with the scope of the study:

1. *Review of Heritage Listed Trees*

- *A report identifying the condition and health of the nominated heritage listed trees (included within the Inventory Sheets);*
- *Recommendations based on the heritage significance of the tree and reconciling the significance with the health and longevity of the trees;*
- *Identification of those items that should be included in, or deleted from, Schedule D of the HSLEP;*
- *Inventory Sheets (compatible with State Heritage Inventory Database) for those items to be included in Schedule D; and*
- *Recommended amendments to the HSLEP 1994.*

Refer to Volumes 1-3: Review of Heritage Listed Trees (prepared by LandArc Pty Limited).

2. *Review of Items*

- *Identification of those items that should be included in, or deleted from, Schedule D of the HSLEP;*
- *Inventory Sheets (compatible with State Heritage Inventory Database) for those items to be included in Schedule D; and*
- *Recommended amendments to the HSLEP 1994.*

Refer to Volume 4: Review of Items (prepared by Patrick O'Carrigan + Partners in association with LandArc Pty Limited).

1.4 Definitions

For the purposes of this report the **local** area refers to the Hornsby Shire Council area, **region** refers to the County of Cumberland and **state** refers to the state of New South Wales.

1.5 Study Area

The study includes private properties, public parks and reserves, road reserves, easements and other government land within the Hornsby Shire. The two components of this Stage 4 Review include a total of 150 listings/ items:

- Part A: Review of Heritage Listed Trees (102 listings for review); and
- Part B: Review of Items (48 items for review).

The Review of Heritage Listed Trees was further divided into two separate phases due to the large number of listings as follows:

- Phase 1: Epping to Hornsby area (71 listings);
- Phase 2: Northern and Western areas (31 listings).

1.6 Methodology

The preparation of the Stage 4 Review is in accordance with the methodology set out in the NSW Heritage Manual (2001) published by the NSW Heritage Office and Illustrated Burra Charter published by the International Council on Monuments and Sites (ICOMOS). The methodology addresses the following:

- Review of relevant heritage studies and historical documents;
- Land use surveys;
- Consultation with stakeholders (including land owners, Hornsby Shire Historical Society and public authorities);
- Analysis of information; and
- Formulation of findings and recommendations.

Heritage items for review have been assessed through systematic research, field work, consultation and documentation. A thorough physical examination of these items in relation to their natural occurrence or cultural history has been conducted and supported through reports, photographs, archival material and oral evidence. The collected data was evaluated on the basis of each item's contextual relationships and relative importance in terms of the established heritage criteria.

1.7 Consultation

Property owners affected by the Stage 4 Review were contacted by Council. Further submissions were requested. A total of 15 submissions were received (refer to TRIM Records – Basic 31/05/2007). Items for Review were divided into the following four categories (refer to Table 1: Consultation – Review of Items):

- ❖ Requests for Removal of Heritage Listing;
- ❖ Requests for Listing of New Items;
- ❖ Requests for Listing of New Items within Existing Listings; and
- ❖ Tree Listings (Anomalies).

The respondents were contacted during the investigation and assessment phase of the study and details of discussions and correspondence are summarised in Table 1. For further details refer to Inventory Sheets.

An introductory cover letter was provided by Council to facilitate access by LandArc and POC+P (consultants) to private properties. This provided opportunities for further detailed investigation, assessment and discussion of heritage and management issues with the owners.

TABLE 1: CONSULTATION - REVIEW OF ITEMS

REQUESTS FOR REMOVAL OF HERITAGE LISTING

SUBURB/ STREET ADDRESS	ITEM	REQUEST BY	SOURCES/ RESPONSE	FILE REFERENCE
Berowra 10 Berowra Waters Road, Berowra	House	Property owner	Noel, Bell Ridley Smith & Ptrns- Heritage Review. <i>tel/ site inspection 18/07/2007</i>	D00357243
Berowra 36-38 Currawong Road, Berowra (Heights)	House	Property owner	Corro. owner & Council. Reports/ site inspections. <i>Sent email/ no response</i>	D00346741 D00357103 PP028469
Epping 16 Abuklea Road, Epping (cnr. Muriel Ave.)	Garden	Property owner	<i>Local studies collection & site inspection.</i>	
Glenorie 1523 Old Northern Road, Glenorie	House	Property owner	Corro. owner & Council. <i>Visual inspection only</i>	D00097994
Hornsby 352 Pacific Highway, Hornsby	House & Garden	Property owner	Corro. Sheridan & Stubbs w. Council on behalf of owner. Archnex Designs Statement of Heritage Impact <i>Visual inspection only</i>	PP035207 D00393189
Thornleigh 9 Station Street, Thornleigh	House	Property owner	Corro. owner & Council. <i>Visual inspection only RE listing</i>	PP029306
Wahroonga 22 Pacific Highway, Wahroonga	House	Property owner	Corro. owner & Council. <i>Visual inspection only</i>	P70/0130-11 PP031893
Various: Recommendations of Stage 3 Review - reported to Council 5 July 2006.		Council Resolution	Corro. owner & Council.	D00623902
333B Pennant Hills Road, Pennant Hills	Garden Trees		<i>Detailed site investigation</i>	
333C Pennant Hills Road, Pennant Hills	Garden Trees		<i>Detailed site investigation</i>	
19C Ethel Street, Hornsby	Trees		<i>Detailed site investigation</i>	
52-54 Crosslands Road, Galston	Fruit Trees		<i>Detailed site investigation</i>	
45 Myra Street, Wahroonga	Garden		<i>Visual inspection.</i>	

REQUESTS FOR LISTING OF NEW ITEMS

SUBURB/ STREET ADDRESS	ITEM	REQUEST BY	SOURCES/ RESPONSE	FILE REFERENCE
Arcadia 23 Bay Road Road, Arcadia	House	Property owner	Corro. owner & Council. <i>Resources from Local Studies (Hornsby Shire Library). Visual inspection & Email w. owner's daughter</i>	D00346742
Beecroft 41 Chapman Avenue, Beecroft	House	Heritage Committee on 7/06/2004	Minutes of Hornsby Shire Heritage Advisory Committee Meeting. <i>Information from Secondary resources. Rod Howard; reviewed plans of Budden Nangle Michael.</i>	HAC Minutes
Beecroft 33 Wongala Crescent, Beecroft	Garden	National Trust (NTA)	Corro. NTA & Council. <i>Visual inspection only</i>	PP033100 PLNPM455/01
Various: Beecroft 3 Hannah Street, Beecroft 16-24 Hannah Street, Beecroft 109 Beecroft Road, Beecroft	Boronia Cottage Module Shopping Complex Beecroft Fire Station	Council Resolution on 15/09/2004	Godden Mackay Logan study of Beecroft Centre <i>Resources from Local Studies (Hornsby Shire Library). Site inspections.</i>	D00051143
Berrilee Berrilee School, Chilcott Road, Berrilee	School Building	Berrilee Parents & Citizens Association (BP&CA)	Corro. BP&CA & Council. <i>Resources from Local Studies (Hornsby Shire Library). Site inspection.</i>	
Cheltenham 76 Cheltenham Road, Cheltenham	House	Community request/ Heritage Committee on 3/04/2006	Corro. owners of adjacent building & Council. <i>Resources from Local Studies (Hornsby Shire Library). Site inspection.</i>	P70/0130-11 HAC Minutes
Dangar Island 51 Grantham Crescent, Dangar Island	House & Boathouse	Community request (anon)		D00343503
Epping 17 Dorset Street, Epping	House	Community request	Corro. community member & Council. <i>Resources from Local Studies (Hornsby Shire Library). Site inspection.</i>	D00352087 PLN PM270/05

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REQUESTS FOR LISTING OF NEW ITEMS

continued

SUBURB/ STREET ADDRESS	ITEM	REQUEST BY	SOURCES/ RESPONSE	FILE REFERENCE
Hornsby Berowra Valley Regional Park	Depression Era sites	Council's Park Trust Coordinator	Lester Tropman Report (Site inspection)	P70/0130 Pt11
Hornsby Hornsby Quarry, Old Mans Valley, also near Rosemead Road & behind TAFE	Sandstone Steps	Council Resolution on 4/05/2005	Hornsby Quarry Land Capability Study. <i>Resources from Local Studies (Hornsby Shire Library).</i>	D00255187
Hornsby Palmerston Road, Hornsby (outside Hospital)	Street Trees	Local Member, Judy Hopwood MP & Heritage Committee on 5/12/2005	Corro. Judy Hopwood MP	D00325734 HAC Minutes
North Epping 80 Norfolk Road, North Epping	House & Garden	Community request	Corro. community members & Council. <i>Real Estate search www.eppingrealestate.com.au</i>	
Pennant Hills 108 Bellamy Street, Pennant Hills	House & Garden	Property owner	Corro. owner & Council. Petit & Seviitt Floor Plans & Elevations; <i>email w. owner/ responses/ site inspection.</i>	PP001836 P70/0010 D00619137 PP001836
Various: Pennant Hills 29 Hampden Road 30 Hampden Road 32-34 Hampden Road 35A Hampden Road 43 Hampden Road 40 Hampden Road 36 Hampden Road	Houses	Community request	Corro. community member & Council. <i>Real Estate Advertisement (K Soames). Resources from Local Studies (Hornsby Shire Library). Site inspection.</i>	D00253146 D00620077
Thornleigh 32 The Esplanade, Thornleigh (cnr. Goodlands Avenue)	House	Community request HAC meeting on 7/11/2005	Submission by community member to Council. <i>Site inspection.</i>	HAC Minutes
Various: Wahroonga 89 Alexandria Parade 4 Highlands Avenue 79 Alexandria Parade 64 Bundarra Avenue 15 Ingalara Avenue 58 Woonona Avenue 60 Woonona Avenue 58-60 Bundarra Avenue 22 Ingalara Avenue	Houses	Council Resolution on 17/08/2005	Godden Mackay Logan study of Wahroonga (North) HCA. <i>Site/ visual inspections.</i> Corro. owner & Council refusing access to site.	D00255187 D00629951

REQUESTS FOR LISTING OF NEW ITEMS WITHIN EXISTING LISTINGS

SUBURB/ STREET ADDRESS	ITEM	REQUEST BY	SOURCES/ RESPONSE	FILE REFERENCE
Dural 431 Galston Road, Dural	Old Barn	Heritage Committee on 7/06/2004	Corro. owner & Council. <i>Resources from Local Studies (Hornsby Shire Library).</i> <i>Visual inspection only - access not permitted by owner.</i>	HAC MINUTES D00626922
Epping 3 Pembroke Road, Epping	St Alban's Church Rectory	TPS	Corro. Church Reverend & Council. Landscape Report by Taylor Brammer Landscape Architects. Noel Bell Ridley Smith & Partners Heritage Assessment	D00409141 D000395394 D00374632 D000326030 D00633688
Hornsby Hornsby Park	CWA Women's Rest Centre	Hornsby Shire Historical Society Inc. (HSHS)	Corro. HSHS & Council. <i>Resources from Local Studies (Hornsby Shire Library).</i>	PP017645-03
Maroota Old Telegraph Road, Maroota	Great North Road <i>Relics</i>	Elizabeth Roberts, Convict Trail Project	Corro. E. Roberts & Council. <i>Site inspection notes/ site visit 22/07/2007. Resources from Local Studies (Hornsby Shire Library).</i>	D00346744
Cowan Muogamarra Nature Reserve (DECC)	Peats Ferry Road	Hornsby Shire Historical Society	Corro. Geoff Ford & Council. <i>NPWS Statement of Heritage Impact Muogamarra Nature Reserve Booklet (NPWS) . Undergraduate student study. Resources from Local Studies (Hornsby Shire Library).</i>	R15/0004-01
Pennant Hills Baden Powell Scout Centre, 19 Orchard Street, Pennant Hills	Buildings	Community request	Corro. community member & Council. <i>Visual inspection only.</i>	P70/0130-11
Thornleigh De Saxe Close, Thornleigh	Site of Halls Camp	TPS	Historical & Archaeological Assessment by E Higginbotham & Assoc. Pty Ltd. <i>email corro w. E. Higginbotham</i>	
Thornleigh Hillmont Avenue, Thornleigh	Trees	Community request	Corro. community member & Council. <i>Meeting & investigation.</i>	D00308459

TREE LISTINGS (ANOMALIES)

SUBURB/ STREET ADDRESS	ITEM	REQUEST BY	SOURCES/ RESPONSE	FILE REFERENCE
Cherrybrook 163 New Line Road, Cherrybrook (aka McCusker Road)	Trees	TPS	<i>Detailed investigation.</i>	
Nornsby Heights Somerville Road, Hornsby Heights (outside No.127)	Trees	TPS	<i>Detailed investigation.</i>	

1.8 Inventory Sheet Format

The format for Inventory Sheets is in MS Word and is consistent with the NSW Heritage Office State Heritage Inventory Database – Data Entry Guide (2001). Each Inventory Sheet includes the following data:

- Item Name and Location (including SHI Number as applicable);
- Image(s) data/ Captions;
- Address details;
- Other former names;
- Area/ group/ complex;
- Aboriginal Area (as applicable);
- Item Type/ Group and Category;
- Owner;
- Current Use/ Former Uses;
- Assessed Significance;
- Endorsed Significance;
- Statement of Significance;
- Historical Notes or Provenance;
- Physical Description.

For the purposes of describing Heritage Listed Trees in more detail, additional data fields are provided:

- Origin;
- Extent of Influence;
- Height;
- Canopy Spread;
- Trunk Diameter;
- Estimated Age;
- Condition/ Health;

and

- Integrity/ Intactness;
- Recommended Management;
- Further Comments;

- References;
- Studies;
- Additional mapping and spatial data.

Health and Condition:

The comments provided on the status, health, condition, potential threats and recommendations for management of heritage trees need to be qualified. These comments are essentially a visual assessment undertaken in the field, under varying conditions, and within the general context of group listings. This data is not presented as a detailed arboricultural investigation or assessment of any individual or group of trees. For further detailed assessment of health, condition and tree management recommendations for heritage trees, a qualified arborist should be consulted.

1.9 Assessment of Heritage Significance

The Stage 4 Review has been guided by established and tested practices in heritage identification and assessment. The assessment of significance and the preparation of the Statement of Significance have been guided by the criteria established by the NSW Heritage Office and the NSW Heritage Manual.

An item is considered to be of State (or local) heritage significance if, in the opinion of the Heritage Council of NSW, it meets one or more of the following criteria:

- *Criterion (a) – an item is important in the course, or pattern, of NSW’s cultural or natural history (or the cultural or natural history of the local area);*
- *Criterion (b) – an item has strong or special association with the life or works of a person, or group of persons, of importance in NSW’s cultural or natural history (or the cultural or natural history of the local area);*
- *Criterion (c) – an item is important in demonstrating aesthetic characteristics and/ or a high degree of creative or technical achievement in NSW (or the local area);*
- *Criterion (d) – an item has strong or special association with a particular community or cultural group in NSW (or the local area) for social, cultural or spiritual reasons;*
- *Criterion (e) – an item has potential to yield information that will contribute to an understanding of NSW’s cultural or natural history (or the cultural or natural history of the local area);*
- *Criterion (f) – an item possesses uncommon, rare or endangered aspects of NSW’s cultural or natural history (or the cultural or natural history of the local area);*
- *Criterion (g) – an item is important in demonstrating the principal characteristics of a class of NSW’s*
 - *cultural or natural places; or*
 - *cultural or natural environments.*

(or a class of the local area’s

 - *cultural or natural places; or*
 - *cultural or natural environments).*

*NSW Heritage Manual – Assessing heritage significance (update)
(NSW Heritage Office 2001)*

An item should not be excluded from listing on the basis that other items with similar characteristics have already been listed. Only items or places of particular significance and complexity will be significant in all criteria. In many instances, items of natural or environmental heritage will be significant under only one or two criteria.

Inventory Sheets

The Inventory Sheets contain fields for *Assessed Significance* and *Endorsed Significance*. Assessed Significance for Heritage Listed Trees (Volumes 1-3) refers to the existing heritage listing (HSLEP 1994). Endorsed Significance refers to the recommendations of this Review Stage 4. Refer to *Table 2: Recommendations for Heritage Listed Trees & Other Items*.

Assessed Significance for Items (Volume 4) refers to submissions (ie. requests for removal of heritage listing, requests for listing of new items and requests for listing of new items within existing listings). Refer to *Table 1: Consultation – Review of Items*. Endorsed Significance refers to the recommendations of this Review Stage 4, as for Heritage Listed Trees.

Built Heritage Items and Cultural Planting Items

The assessment of significance of built heritage and cultural landscape heritage items has followed the criteria outlined in the NSW Heritage Manual (refer to Assessment of Heritage Significance – Cultural Items). This methodology however has a cultural bias and while it is easily adapted to the assessment of cultural/ historic heritage trees and landscapes it is not as easily adapted to the assessment of natural heritage items and places. Other natural heritage principles, in accordance with the Australian Natural Heritage Charter, have been considered in the review of these items.

Natural Heritage Items (incl. Remnant Native Tree Groups)

The fundamental concept of natural heritage, which most clearly differentiates it from cultural heritage, is that of:

- *dynamic ecological processes;*
- *ongoing natural evolution; and*
- *the ability of ecosystems to be self-perpetuating.*

Australian Natural Heritage Charter (ANHC 1999, p.3)

Natural significance means the importance of ecosystems, biological diversity and geodiversity for their existence value, or for present or future generations in terms of their scientific, social, aesthetic and life-support value (ANHC 1999). Natural heritage incorporates a spectrum of values ranging from existence value through to socially-based values. In many instances, particularly in the urban context of these heritage listings, it is difficult to make a clear separation of cultural and natural values, rather they become multi-layered.

It is important to recognise that Volumes 1-3: Review of Heritage Listed Trees contain a majority of remnant native trees (ie. individual specimens, tree groups and/ or remnant communities) rather than cultural plantations or specimen planting. These remnant native trees have natural heritage significance rather than cultural heritage significance. Furthermore, most of these natural heritage listings for review are vital components of **critically** endangered ecological communities listed in the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 and NSW Threatened Species Conservation Act. For all of these listings, the assessment of significance takes into account the Heritage Council's Natural Heritage Principles

(2000) and Australian Natural Heritage Charter – Standards and Principles for the Conservation of Places of Natural Heritage Significance (ANHC 1999).

1.10 Heritage Listed Trees

For many years, various bodies have sought to establish criteria for assessing heritage trees (ie. both cultural and natural heritage significance). Many listings have relied largely on a nomination process involving community and special interest groups, stakeholders and interested individuals. In some cases, these listings have been critically evaluated by a panel of experts to determine whether a tree or group of trees should be included within a Register. Some examples of this work have approached assessment purely from an arboricultural/ tree management perspective however heritage criteria are poorly or inadequately addressed. A number of listings have focussed on quantifying significance attributes using a range of numerical weighting and scaled formats. These listings have often strived for objectivity but have been hamstrung by their level of complexity. They can also be compromised by the type of investigation and understanding of the multi-layered values of an item or place.

An underlying concept of value and worth must be established in order to provide the way to qualitatively sort through the enormous range of trees encountered in a survey. The methodology must provide a consistent analytical approach to maximise its value as a planning tool and to facilitate the protection and ongoing management of these trees within a rapidly changing urban environment. The criteria must provide an independent validation process which is useful for comparative assessment. The Australia ICOMOS Burra Charter established a set of principles and values to assess items and places for heritage listing. The NSW Heritage Office heritage assessment criteria encompass the four values identified in the Australia ICOMOS Burra Charter, which are broadly accepted as generic values – historical, aesthetic, scientific and social significance. These values are expressed as criteria in the format developed by the NSW Heritage Office. These criteria can also be adapted and applied to assessing significance for heritage trees as follows:

- ***natural occurrence or historical*** (ie. indigenous or cultivated origin)
 - determination of origin as a component of natural ecological community or cultivated as part of historic development of the place;
 - including influences by historic figures, events and patterns of development.
- ***scientific (botanic, ecological, biodiversity)***
 - associated with research and educational values, based on integrity, rarity and representative values.
- ***social***
 - focusing on qualities such as the spiritual, political, national and cultural sentiment reflected by the broader population or smaller community groups;
 - including commemorative events
- ***aesthetic***
 - based on existing physical fabric;
 - relates to qualities of bulk, scale and contribution to defining local character and the “spirit” or sense of place.

The heritage values for each listed tree or group of trees is encapsulated in a Statement of Significance which involves interpretation and analysis of comparative points of importance as follows:-

- *rarity value;*
- *biodiversity value;*
- *individual and/ or group value;*
- *landmark value;*
- *representative value;*
- *integrity value;*
- *research, teaching and understanding;*
- *social, cultural or spiritual associations; and*
- *associations with significant individuals.*

The criteria relate to both cultural and natural significance of an item and place. Although some may have a specific cultural or natural bias heritage values are often multi-layered.

Statement of Significance

A Statement of Significance establishes why a heritage item or place is important. It examines the evidence in terms of contextual relationships and the heritage values associated with the place. For this type of study in a highly urbanised context, origin (eg. natural or cultivated), cultural phases, socially based and aesthetic values are often highlighted in the Statement of Significance (refer to Inventory Sheets).

Comparative Significance

The rarity, integrity and representative values of a heritage item or place are important for assessing comparative significance. This process of comparative assessment establishes priorities for limited resources.

Context

It is important to recognise that significance is inextricably linked to 'place'. Heritage trees do not generally occur in isolation – rather they are important components in defining the broader context and character of the landscape. Listings may be composed of a number of trees, possessing as a whole entity, the values for significance recognition, whilst each individual tree, as a component, may or may not be considered significant in itself.

Heritage trees are a product of natural environmental opportunities and the cultural impact of landscape modification and human intervention over time. Cultivated landscape elements, garden escapes and exotic weeds are now overlaid to varying degrees upon the natural vegetation pattern. Cultural and historic planting also reflect intricate patterns of development, providing a guide to the way the landscape has changed since European settlement. In this way, trees of cultural significance have been an integral part of the multi-layering process of places, people, associations and time.

Heritage trees often visually dominate a place by their sheer size, scale and visual impact however this particular attribute, by itself, may not necessarily mean that the tree(s) are of heritage significance. Some trees, such as Eucalypts, can achieve dramatic proportions in a relatively short time frame but may not be assessed as having heritage significance, especially those of recent cultivated origin. Furthermore, it is possible that some heritage trees may be aesthetically unremarkable or diminutive

in scale but that they possess extraordinary scientific or botanic significance in terms of rarity or representative values. This point highlights the need for a systematic approach to assessment including investigation and identification, comparative analysis and review of local contextual relationships.

In assessing heritage trees in this review, a balance must be established between items which have the qualities of heritage significance and those items possessing fewer attributes according to the criteria. It is important that listed items should not in any way reduce the value or deem expendable those trees which are not scheduled on the HSLEP. Trees are living, growing organisms which are affected by the environment around them and conversely, trees will make their own impact felt over time. These dynamics are not contained within a static document and this point emphasises the need to monitor, upgrade and modify the schedules over time. Heritage trees are often the last vestiges of former natural and cultural landscapes. They have a recognisable range of values as discussed. Trees can be symbols of great spiritual power. They may have associations with individual people and communities or tell stories of other times and places, or the historic development of a place, trade routes, connections and communications. Remnant native trees from natural ecological communities are likely to conserve valuable habitat and bio-linkages for endangered and dependent species. These trees also offer a valuable gene pool for future scientific research, conservation and restoration.

1.11 Historical Context

Following exploration of the Hawkesbury River by Governor Phillip in 1788, limited farming and timber-getting continued in this area for half a century. Settlement however was largely constrained by the steep topography and poor Hawkesbury sandstone soils of the plateaus. Two early land routes followed the main ridges to Wiseman's Ferry and Peat's Ferry. In the south along the fertile Wianamatta shale-derived soils of Carlingford and Beecroft, the tall Blue Gum High Forest was being cleared soon after colonial botanist George Caley's visit in 1805. He described the land's general good qualities and arable nature. The Blue Gum High Forest probably grew to 30-40 metres and provided valuable timber (Benson, D. & Howell, J., 1990). The sparse Aboriginal population was dependent on the continuity and management of these limited resources. European settlement disrupted and totally transformed this existence. The spread of disease quickly decimated the local Aboriginal population. Resources were increasingly affected by vegetation clearing, timber-cutting and farms irreversibly altering Aboriginal society.

By the 1820s, the land along the fertile ridges was cleared and orange orchards were established in Pennant Hills and the Epping/ Carlingford area. This period of colonial expansion saw the development of the Great North Road. Built by convict labourers between 1826-1836, the road established a vital link between Sydney and the Hunter Valley. Peats Ferry Road (built 1848-1851) provided a new overland route to the Hawkesbury River and a ferry crossing. As the natural vegetation was cleared within the more fertile areas, a new cultural landscape began to take shape. Orchards in these areas became the dominant rural industry for over 100 years. Grapes, stone and citrus fruit were being grown in Galston and Dural by the 1860s (Perumal Murphy Wu 1993). In later years, the Carlingford and Epping areas gained a favourable reputation as a centre for plant nurseries and seed suppliers. The development of the northern railway in 1886 ushered in a period of rapid development with greater opportunities for access to markets and the creation of wealth. The railway arrived as the late Victorian boom period was coming to an end. As the population increased, the orchards were gradually replaced by subdivisions for housing. Much of Hornsby's rugged sandstone country remained largely undisturbed during this period. In the

twentieth century it was the Inter-War and Post War suburban expansion that finally had a lasting and dramatic impact on the landscape with many steep areas being developed with roads and housing.

Suburban growth during these years created many fine buildings, estates and gardens, avenues and parklands. Cultivated native and exotic trees progressively replaced the natural landscapes and their rich botanic diversity. In particular, the Blue Gum High Forest (BGHF) and Sydney Turpentine-Ironbark Forest (STIF) of the shale ridges and slopes were cleared and replaced by new subdivisions, housing and roads. The new cultural landscape was to transform much of the visual and aesthetic character of Hornsby Shire.

During the 1940s to 1950s period, native gardens were beginning to be embraced and promoted by people such as Betty Maloney, Jean Walker and Edna Walling. This movement towards creating 'bush gardens' laid the foundations for a new Australian garden style which grew in popularity during this period. The heritage listed avenues of Brush Box (*Lophostemon confertus*) in Hornsby are representative of this thematic approach. This philosophy became part of a broader focus on global and local environmental issues during the 1960s to 1970s. The new garden style was adapted to suburban parks and streetscapes with the introduction and layering of a new range of Australian species.

Since the early 1970s, the planting strategy has tended to focus on new smaller natives, particularly hardy, drought-tolerant sclerophyllous species which required less maintenance and smaller spaces for growth. This public planting strategy has established the now ubiquitous examples of Eucalypts (*Eucalyptus spp.* and *Corymbia spp.*), Paperbarks (*Melaleuca spp.*), She-oaks (*Casuarina spp.*), Wattles (*Acacia spp.*) and Bottlebrush (*Callistemon spp.*). These generic native species have created a new 'bush' aesthetic, particularly within the streetscapes. These trees have continued to shape and impact upon older historic collections and remnant native tree groups. In some instances they have adversely affected the integrity of heritage landscapes through over-shadowing and competition.

The specimen trees planted during the late nineteenth century and early twentieth century are now part of Hornsby's historic fabric. Similarly, the remnant stands of native trees such as the tall Sydney Blue Gums and Blackbutt are iconic reminders of the past. This is now an ageing landscape in an increasingly urbanised environment. The multi-layered heritage values of these trees are being threatened by a range of impacts. Space for these trees is continually being reduced under rising pressures for urban intensification. The associated impacts are tending to accelerate the loss of these heritage values. Specific stress related and soil-borne diseases are also on the increase in many tree populations around Sydney. Furthermore, large specimen trees such as Bunya Pine, Hoop Pine and Norfolk Island Pine, which have contributed greatly to Hornsby's historic and cultural landscapes, are no longer being planted. Often there is simply not enough space for growth or they are considered too much of a threat.

Hornsby Shire has responded to this broad range of tree management issues in a number of ways including preparation of environmental planning instruments, development and regulatory controls, ongoing monitoring and compliance as well as community-based initiatives and education. Specifically, Council has identified the need for protection and management of its trees, particularly listed heritage trees in the HSLEP. Nevertheless, this review process has shown that many of these trees are still being lost through an ongoing process of fragmentation and attrition.

1.12 Findings of the Heritage Tree Review

Hornsby Shire's current listing of heritage trees in HSLEP Schedule D are based on the recommendation of the Hornsby Shire Heritage Study (Perumal Wu Murphy 1993). It has been fourteen years since this list was established. The study pre-dates many of the heritage tree registers prepared for local councils in the Sydney metropolitan area (eg. Woollahra 1991, Camden 1993, North Sydney 1994, Strathfield 1995, City of Sydney 2005 and Randwick City 2007 – prepared by LandArc Pty Limited). The identification, assessment and mapping of natural biodiversity, especially endangered ecological communities (EECs) within local government areas in recent years, has also played a major role in the review process. Commonwealth and State threatened species legislation has added a further layer to the significance of natural heritage listings under review.

A major issue confronting the preparation of the Stage 4 Review has been the way in which trees were identified and assessed in this earlier study. The review identifies a number of significant gaps in the heritage data base. In many instances, the original study and HSLEP listing identified heritage tree items/ groups in a certain location while other examples nearby, including items of similar or higher significance, may not be mentioned or addressed in any form. This issue of significant gaps in the heritage data base may occur in the same road reserve, a neighbouring property or the item (group) may be in an adjoining street. Items which have not been included are sometimes considered to be of higher significance than the scheduled items being reviewed. For example, some private properties containing heritage items have been included in the HSLEP (Schedule D) while other neighbouring properties with items of similar or sometimes greater significance have no heritage listing. Similarly, cultural items (eg. Post War period avenues/ plantations) may be listed while adjoining private properties in the same street conserve outstanding remnant old growth specimen trees. These natural heritage items may have no heritage listing (eg. Myra Street). This Stage 4 Review identifies items for further investigation. Where appropriate, these heritage items have been included in the group listing (eg. road reserve listing). Refer to 1.14 Recommendations.

The cultural focus of the heritage listings has also played a role in reducing the significance of natural heritage listings. Current Item Names for Inventory Sheets have generally been retained except where there is a significant anomaly or incorrect description (eg. a bushland reserve may be listed as 'street trees'). Generally, the Item Names for Inventory Sheets tend to be misleading. They do not differentiate between cultivated plantations/ specimen trees (of cultural heritage significance) and remnant native tree groups (of natural heritage significance). Often remnant native tree groups are simply listed as 'Street Trees'. Item Names should refer to cultural plantations as 'Street Trees' and remnant native tree groups as 'Native Tree Group' or 'Remnant Community'. Where the tree group is a critically endangered ecological community the Item Name should be followed by 'critically endangered' (eg. Native Tree Group/ Remnant Community [BGHF] – critically endangered).

Critically Endangered Ecological Communities

It is important to recognise that Volumes 1-3: Review of Heritage Listed Trees contain a total of sixty-three (63) remnant native tree(s) items out of a total of 102 listings (including single trees, tree groups and/ or remnant communities). Forty-three (43) of these heritage listings are vital components of **critically** endangered ecological communities listed in the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 and NSW Threatened Species Conservation Act. These listings include predominantly remnant native tree groups of the Blue Gum High Forest

(BGHF) and Sydney Turpentine-Ironbark Forest (STIF) communities. Although the NSW Heritage Office no longer supports a 'regional' listing for items (only 'local' and 'state' significance), this Stage 4 Review recommends this 'regional' listing for remnant native populations which are components of a **critically** endangered ecological community. This is recommended as a means of highlighting the significance of these highly fragmented populations which in many instances occur only as scattered individuals and small remnant stands of trees. Sometimes these items include understorey components, further adding to their significance. Each of these items and places in isolation may be considered of 'local' significance however in the aggregate of similar heritage items, the group has far greater significance at the State and Commonwealth levels.

Blue Gum High Forest (BGHF) and Sydney Turpentine-Ironbark Forest (STIF) are both listed as critically endangered ecological communities in the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999*. The *NSW Threatened Species Conservation Act 1995* lists these two communities as endangered and critically endangered respectively. It is estimated that less than 5% of the original area of Blue Gum High Forest (BGHF) and only 0.5% of the original area of Sydney Turpentine-Ironbark Forest (STIF) still exists. These occur as highly fragmented remnants.

In view of the small size of existing remnants and threat of further clearing and other impacts it is likely that these communities will become extinct unless current management issues are addressed (NSW Scientific Committee – Final Determinations, DE&CC NSW 2007). These critically endangered ecological communities, along with Hornsby Shire's other vegetation communities, have been mapped by the Department of Environment and Climate Change (2002) and more recently by Smith & Smith (Native Vegetation Communities of Hornsby Shire (2007)).

In the context of Hornsby Shire's responsibility for possibly ¼ of all remaining critically endangered Blue Gum High Forest (BGHF) and Sydney Turpentine-Ironbark Forest (STIF) communities in the Sydney Basin Bioregion, all of the aggregated listings are of State and Commonwealth significance. For these critically endangered ecological communities, there is no minimal 'patch' or group size – all are considered significant in this context.

A further issue is that many of the listed trees are of a similar mature age structure. Many groups conserve rare old growth specimens, some of which are up to 150 years or more in age. These trees are rapidly approaching senescence. Rather than this being a long-term phase, the increased level of stress in our urban environment is effectively accelerating the processes of decline. Notably, there are no opportunities for regeneration or natural recruitment in most of these remnant populations. Current management practices are effectively eliminating possibilities for renewal and self-perpetuation.

The Stage 4 Review found that the Inventory Data Sheets of the Hornsby Shire Heritage Study (Perumal Wu Murphy 1993) often described trees, particularly remnant native trees and old growth specimen trees, which are no longer extant. This level of continuing fragmentation and attrition highlights the point that protection measures under the current Tree Preservation Order (TPO) and local heritage listing (HSLEP Schedule D) have not been effective in arresting the loss of these items. Whilst conservation efforts in the bushland reserves system (ie. Bushcare programs/ contract bush regeneration) has gained enormous momentum since the earlier study, the review has shown that current management practices are continuing to pose a serious

threat to remnant native tree groups – reducing their capacity for resilience, durability and long term viability. With respect to significant remnant native tree groups, current management practices need urgent review. Very few surveyed road reserves (public verges), rail corridors and easements displayed any positive initiatives for restoration and improvement of bio-linkages/ connectivity and opportunities for natural recruitment/ regeneration.

1.13 Management Realities for an Ageing Tree Population

All of the heritage listed trees in this Stage 4 Review are representative of an ageing tree population within a rapidly changing environment. The forces driving Hornsby's development and urban consolidation mean that these trees have less space to survive and grow. Many of Hornsby's heritage listed trees are under threat from a broad range of urban impacts. Development is intensifying the processes of incremental loss. The requirements for development such as multiple off-street and underground parking, driveways, garages, drainage retention devices, air-conditioning and ducting, large service areas and preferences for expansive outdoor paved living areas and swimming pools have all substantially increased the building footprint on blocks of land. The intensive nature of building in these locations requires dramatic changes to existing soil profiles and is often accompanied by increasing compaction around ageing root systems, significantly altered water-tables, modification of soil nutrient levels, pH levels, salinity, drainage conditions and introduction of new pathogens. These activities impact in varying ways upon these ageing trees. Each development proposal in isolation may not seem that significant however it is the cumulative impacts of these actions over time that are inexorably shifting the balance.

Heritage listed trees in road reserves, public reserves and easements are facing similar constraints and pressures. These public areas are taking greater traffic loads, both pedestrian and vehicular over time. The spaces for these often large remnant trees are diminishing as services increase. These trees are affected by a range of overhead and underground services and the requirements for access, maintenance and renewal of this infrastructure. Compaction of old root zones in these locations, particularly from increasing road and pedestrian traffic are also taking a high toll on the long-term viability of these specimens. In this way, Hornsby's heritage is being gradually diminished – individual specimens are being lost from ever smaller groups of trees. At the broader macro-level, the visual integrity of these landscapes is being significantly altered over time.

The iconic old growth Blue Gums and Blackbutts of the Blue Gum High Forest (BGHF) are either rapidly approaching senescence or are already in a senescent phase. Rather than this being a long and relatively stable phase, the increased level of stress in this urban environment is effectively accelerating the processes of decline. The responses and interventions which are often necessary in public spaces have also tended to accelerate these processes rather than address the core issues.

1.14 Recommendations

Refer to Table 2: Recommendations – Heritage Listed Trees & Other Items.

Items for retention in HSLEP 1994

Stage 4 Review recommends that all items included in the following table as “**retain**” should be retained (ie. current level of significance) in Schedule D (Heritage Items) of the Hornsby Shire Local Environment Plan (HSLEP 1994) as their heritage significance has not been altered or diminished.

Items for significance ‘upgrade’ in HSLEP 1994

Stage 4 Review recommends that items of natural heritage significance and scheduled as critically endangered ecological communities (EPBC Act 1999 and TSC Act 1995) require special consideration. These items have been recommended for “**upgrade**” from ‘local’ to ‘regional’ heritage significance. In the aggregate, these items are of Commonwealth and State significance (refer to discussion in 1.12 Findings of the Heritage Tree Review – Endangered Ecological Communities).

Items for deletion in HSLEP 1994

Stage 4 Review recommends that all items included in the following table as “**remove**” should be deleted in Schedule D (Heritage Items) of the Hornsby Shire Local Environment Plan (HSLEP 1994) as they no longer demonstrate sufficient heritage significance to be considered as heritage items.

New Items for inclusion in HSLEP 1994

Stage 4 Review recommends that all items included in the following table as “**add**” or “to be **added**” should be included in Schedule D (Heritage Items) of the Hornsby Shire Local Environment Plan (HSLEP 1994) as they demonstrate sufficient heritage significance to be included as heritage items. Similarly, item recommendations stating “**add item to listing**” should be included within the existing listing in Schedule D (Heritage Items).

New Items (reviewed) and not for inclusion in HSLEP 1994

Stage 4 Review recommends that all items included in the following table as “**do not add**” should not be included in Schedule D (Heritage Items) of the Hornsby Shire Local Environment Plan (HSLEP 1994) as they do not demonstrate sufficient heritage significance to be included as heritage items.

Updating Data Base

Items included in Schedule D should be issued to the NSW Heritage Office to be included in its data base.

Community Involvement in Heritage Matters

The status of listed heritage items should be used to promote broader community awareness and to highlight Council's commitment to the protection of these items and places. It is important to emphasise to the community the significance of “place” – not simply recognition of the listed item(s) but an understanding of their broader values and context. These initiatives should be promoted by Council as part of an ongoing community-based exercise ensuring broad media coverage, web-site information, volunteer involvement and education in appropriate conservation strategies.

Whole of Life Management of Heritage Trees and Critically Endangered Ecological Communities

Ongoing development and management issues which continue to impact upon heritage listed trees have been highlighted in each of the Inventory Sheets. Current management practices which pose a threat to the resilience, durability and long term viability of remnant native tree groups and critically endangered ecological communities, need urgent review.

These remnant native tree groups are increasingly vulnerable to further fragmentation and attrition and many are likely to be lost altogether over time unless these management issues are addressed. Conservation management of remnant native

tree groups should be integrated within Council's broader Biodiversity Conservation Strategy. Future initiatives need to focus on the following:

- improve quality of whole of life management for heritage trees;
- mitigate threats to fragmented native tree groups;
- restore and enhance ecological connectivity (between remnant tree groups and core bushland reserves);
- provide opportunities for natural recruitment/ regeneration; and
- develop and implement appropriately funded strategies.

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TABLE 2: RECOMMENDATIONS FOR HERITAGE LISTED TREES & OTHER ITEMS

The following is the List of Heritage Trees and Other Items which have been reviewed during Stage 4 Review.

Key to Significance:

L = local

R = regional

S = state

ADDRESS	PROPERTY DESCRIPTION	ITEM NAME	CURRENT LISTING	RECOMMENDATION	
Arcadia					
23 Bay Road	Pt Lot 150				
	DP752048	Farmhouse	-	add	L
Halls Road	Road Reserve	Windbreak	L	retain	L
8-14 Sunnyridge Road	Road Reserve	Windbreak	L	retain	L
15-17 Sunnyridge Road	Road Reserve	Windbreak	L	retain	L
Asquith					
Haldane Street/ Asquith Station	Road Reserve	Street Trees	L	upgrade	L/ R
21 Queens Road (Salmon Close)		Garden Tree	L	retain	L
Royston Parade	Road Reserve	Street Trees	L	upgrade	R
cnr Sherbrook Road & Baldwin Avenue	Road Reserve	Street Tree	L	retain	L
Sherbrook Road	Road Reserve	Trees	L	retain	L
Beecroft					
9 Albert Road	Lot 5 DP18182	Blue Gum	L	upgrade	R
109 Beecroft Road	Beecroft Fire Station		-	add	L
Boronia Avenue	Road Reserve	Street Trees	L	upgrade/ add	R
Cardinal Avenue	Road Reserve	Street Trees	L	upgrade	R
Castle Howard Road	Road Reserve	Street Trees	L	upgrade	R
41 Chapman Avenue	Lot 41				
	DP1105341	House	-	add	L
Chapman Avenue	Road Reserve	Street Trees	L	upgrade/ add	R
3-5 Hannah Street	Retail Shops	Shop	-	add	L
16-24 Hannah Street	Module Shopping Complex		-	add	L
Hannah Street	Road Reserve	Street Trees	L	upgrade	R
Hull Road	Road Reserve	Street Trees	L	upgrade	R
Lyndon Way	Road Reserve	Street Trees	L	upgrade	R
Malton Road	Road Reserve	Street Trees	L	retain/ upgrade	L/ R
7 Mary Street	Lot 8 DP758074				
	sec.2	Two Angophora	L	remove	-
Murray Road	Road Reserve	Street Trees	L	retain/ add	L
67A Murray Farm Road	Lot 3 DP552887	English Oak	L	retain	L
Orchard Road	Road Reserve	Street Trees	L	retain	L
Plympton Road	Road Reserve	Street Trees	L	retain	L
33 Wongala Crescent	Lot B DP315312	Garden	-	add	L
Berowra					
10 Berowra Waters Road	Lot 2 DP417877	House	L	remove	-
Crowley Road	Road Reserve	Street Trees	L	retain	L
Pacific Highway (south of Berowra Waters Rd)	Road Reserve	Trees/ Bushland	R	remove	-

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ADDRESS	PROPERTY DESCRIPTION	ITEM NAME	CURRENT LISTING	RECOMMENDATION	
Berowra (continued)					
Rawson Road	Road Reserve	Street Trees	L	remove	-
Waratah Road	Road Reserve	Street Trees	L	retain	L
Berowra Heights					
106 & 112 Berowra Waters Road		Garden Trees	L	remove	-
36-38 Currawong Road	Lot 2 DP1076558	House	L	remove	-
Turner Road	Road Reserve	Trees	L	remove	-
Berrilee					
Berrilee School, Chilcott Road	Berrilee School Grounds	School Building	-	add	L
Castle Hill					
Castle Hill Road (cnr. Old Northern Rd) (north side)	Road Reserve	Roadside Trees	L	remove	-
Cheltenham					
76 Cheltenham Road	Lot 8 DP1062651	House	-	add	S
Mason Avenue	Road Reserve	Street Trees	L	remove	-
Sutherland Road (south end)	Road Reserve	Street Trees	L	retain	L
The Boulevarde	Road Reserve	Street Trees	L	retain	L
1 The Boulevarde	Lot 1 DP576233	Trees	L	retain	L
The Crescent	Road Reserve	Street Trees	L	remove	-
The Promenade	Road Reserve	Street Trees	L	retain	L
Cherrybrook					
Boundary Road (west of Kitchener Road)	Road Reserve	Street Trees	L	upgrade	R
35 McCusker Road (163 New Line Road)		Garden	L	remove	-
Cowan					
Pacific Highway	Road Reserve	Street Trees	L	retain	L
Muogamarra NR	Nature Reserve	Peats Ferry			
Pacific Highway		Road Remains	R	add item to listing	R
Dangar Island					
51 Grantham Crescent	Lot 31 DP10902	House & Boatshed	-	add	L
Grantham Crescent	Road Reserve	Blackbutts	R	retain	R
Dural					
431 Galston Road	Lot 1 DP194542	Old Barn/ Stables	L	add item to listing	L
New Line Road (between Pyes Ck/ Old Northern Rd)	Road Reserve	Trees/ Bushland	L	upgrade	R
1169-1171 Old Northern Road	Lot 6 DP239758/ Road Reserve	Trees/ Windbreak	L	retain	L
Old Northern Road (east of Round Corner)	Road Reserve	Roadside Trees	L	upgrade	R
Epping					
16 Abuklea Road	Lot 1 DP1003037	Garden	L	remove	-

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ADDRESS	PROPERTY DESCRIPTION	ITEM NAME	CURRENT LISTING	RECOMMENDATION	
Epping (continued)					
Beecroft Road (between Carlingford Rd/Kandy Ave)	Road Reserve	Bushland	L	retain	L
Chester Street	Road Reserve	Street Trees	L	upgrade/ add	R
17 Dorset Street	Lot 1 DP1101289	House	-	add	L
Dorset Street	Road Reserve	Street Trees	L	upgrade/ add	R
Epping Road (between Terrys Ck/ Pembroke Rd)	Road Reserve	Trees/ Bushland	L	upgrade	R
5-7 Essex Street (Rockleigh Park)	Lot 3 DP847018	Garden Trees	L	upgrade	R
3 Pembroke Road	St Albans Church & Grounds				
	Lot 1 DP398835	Rectory	L	add item to listing	L
York Street	Road Reserve	Street Trees	L	upgrade	R
Galston					
Bayfield Road	Road Reserve	Windbreak	L	retain	L
29 Crosslands Road	Lot 1 DP581060	Windbreak	L	retain	L
52-54 Crosslands Road	Lot 18 sec.1 DP1056	Fruit Trees	L	retain	L
Galston Road (east of Arcadia Road)	Road Reserve	Windbreak	L	remove	-
Glenhaven					
599-601 Old Northern Road	Lot E DP412836	Roadside Trees	L	remove	-
Glenorie					
1523 Old Northern Road	Lot 2 DP570884	House	L	retain	L
Hornsby					
Berowra Valley Regional Park		Depression Era Sites	-	add	L
College Crescent (west side)	Road Reserve	Street Trees	R	retain/ remove	R/ -
Dural Street	Road Reserve	Street Trees	L	retain	L
Edgeworth David Avenue	Road Reserve	Street Trees	L	retain/ upgrade	L/ R
19C Ethel Street	Lot 11 DP853365	Garden Trees	L	retain	L
Hornsby Park, Pacific Highway		CWA Building	L	add item to listing	L
Hornsby Quarry, Old Mans Valley		Sandstone Steps	-	add	R
Hunter Street	Road Reserve	Street Trees	L	remove	-
Jersey Street (east side)	Road Reserve	Street Trees	L	retain	L
Manor Road	Road Reserve	Street Trees	L	retain	L
352 Pacific Highway	Lot 101 DP629769	House & Garden	L	retain	L
Palmerston Road	Road Reserve	Street Trees	-	add	L
Pretoria Street (Reddy Park)	Road Reserve	Street Trees	L	upgrade	R
Rosemead Road	Road Reserve	Street Trees	L	retain	L
12 Rosemead Road	Lot 1 DP620465	Garden Tree	L	retain	L
William Street	Road Reserve	Street Trees	L	retain/ remove	L/ -

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ADDRESS	PROPERTY DESCRIPTION	ITEM NAME	CURRENT LISTING	RECOMMENDATION	
Hornsby Heights					
Galston Road (Ryan Ave to Montview Pde)	Road Reserve	Street Trees	L	retain	L
107-127 Somerville Road	Road Reserve	Street Trees	L	remove	-
137-213 Somerville Road	Lot 1 DP620465	Indigenous Vegetation	L	retain	L
Maroota					
Old Telegraph Road		Great North Road Relics	R	add item to listing R	
Mount Colah					
Belmont Parade (Berowra Rd to Cowan Road)	Road Reserve	Street Trees	L	retain	L
Normanhurst					
Calga Avenue	Road Reserve	Street Trees	L	upgrade	R
Campbell Avenue	Road Reserve	Street Trees	L	upgrade	R
Denman Parade	Road Reserve	Street Trees	L	retain/ add	L
Ferndale Road	Road Reserve	Street Trees	L	retain	L
Fraser Road (east side)	Road Reserve	Street Trees	L	upgrade	R
Harris Road (east side)	Road Reserve	Street Trees	L	upgrade	R
Malsbury Road	Road Reserve	Street Trees	L	upgrade	R
Milson Parade (east side)	Road Reserve	Street Trees	L	upgrade	R
Nanowie Avenue	Road Reserve	Street Trees	L	upgrade	R
North Epping					
80 Norfolk Road	Lot C DP414497	House & Garden	-	add	L
Pennant Hills					
Beecroft Road (opp. Observatory Park)	Road Reserve	Street Trees	L	remove	-
108 Bellamy Street	Lot 3 DP553329	House & Garden	-	add	L
Britannia Street	Road Reserve	Street Trees	L	remove	-
29 Hampden Road	Lot C DP364807	House	-	add	L
30 Hampden Road	Lot 1 DP732471	House	-	add	L
32-34 Hampden Road	Lot 24 DP4592	House	-	add	L
35A Hampden Road	Lot 2 DP208761	House	-	add	L
36 Hampden Road	Lot 2 DP25090517	House	-	add	L
40 Hampden Road	Lot 261 DP591168	House	-	add	L
43 Hampden Road	Lot 2 DP220712	House	-	add	L
Laurence Street	Road Reserve	Street Trees	L	upgrade/ add	R
Lilla Road	Road Reserve	Street Trees	L	upgrade	R
Loftus Road (adj. to 46 Victoria Road)	Lot 2 DP25436	Trees	L	retain	L
19 Orchard Street	Lot 514 DP752053	Baden Powell Scout Centre	R	add item to listing R	
333B Pennant Hills Road	Lot 17 DP263536	House & Garden	L	retain	L
333C Pennant Hills Road	Lot 17 DP263536	Garden	L	retain	L
Trebor Road	Road Reserve	Street Trees	L	remove/ add (group)	
Weemala Road	Road Reserve	Street Trees	L	remove	-

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ADDRESS	PROPERTY DESCRIPTION	ITEM NAME	CURRENT LISTING	RECOMMENDATION	
Thornleigh					
Beresford Road	Road Reserve	Roadside Trees	L	remove	-
De Saxe Close	Lot 547 & 1569 DP752053	Quarry & Zigzag Railway Track	L	add item to listing	L
Giblett Avenue	Road Reserve	Street Trees	L	upgrade	R
40-56 Hillmont Road	Lots 25-26/ 30-34 DP28362, Lots A & B DP403196	Trees	L	retain/ add	L
1A-1D Kentwell Avenue	Lots 100 & 101 DP843558 & Lots 102 & 103 DP853809	Trees	L	remove	-
Loch-Maree Avenue	Road Reserve	Roadside Trees	L	upgrade	R
253 Pennant Hills Road	Lot 43 DP263535	Garden Tree	L	add	L
9 Station Street	Lots 22 & 23 Sec 3 DP1854	House	L	retain	L
32 The Esplanade (cnr. Goodlands Ave)	Lot 4 DP8965	House	-	add	L
Wahroonga					
79 Alexandria Parade	Lot 6 DP412076	House & Fence	-	add	L
89 Alexandria Parade	Lot 2 DP546743	House & Garden	-	add	L
58-60 Bundarra Avenue	Lot 3 DP212804	House & Garden	-	add	L
64 Bundarra Avenue	Lot Y DP386164	House	-	add	L
Bundarra Avenue	Road Reserve	Street Trees	L	upgrade	R
Edwards Road	Road Reserve	Street Trees	L	upgrade	R
Fern Avenue	Road Reserve	Street Trees	L	upgrade	R
4 Highlands Avenue	Lot 53 DP18606	House	L	remove	-
15 Ingalara Avenue	Lot A DP392066	House & Garden	-	add	L
22 Ingalara Avenue	Lot 50 DP13934	House	-	add	L
Ingram Avenue	Road Reserve	Street Trees	L	retain	L
45 Myra Street	DP305358	Garden	L	remove	-
Myra Street	Road Reserve	Street Trees	L	retain/ add	L
22 Pacific Highway	Lot B DP41222	Garden	L	retain	L
Russell Avenue	Road Reserve	Street Trees	L	upgrade	R
58 Woonona Avenue	Lot 33 DP7038	House	-	add	L
60 Woonona Avenue	Lot 33 DP7038	House	-	add	L
Woonona Avenue	Road Reserve	Street Trees	L	upgrade	R
Waitara					
Alexandria Parade	Road Reserve	Street Trees	L	retain/ upgrade	L/ R
West Pennant Hills					
Cardinal Avenue	Road Reserve	Street Trees	L	upgrade	R
Dean Street	Road Reserve	Street Trees	L	upgrade	R
540 Pennant Hills Road	Lot 11 DP818114	Sydney Blue Gum	L	remove/ add (group)	

NOTES:

A split recommendation (eg. 'retain/ remove' or 'retain/ upgrade') refers to two separate items in the listing (eg. cultural plantation/ remnant native tree group). Refer to each Inventory Sheet for further details.

Listings which contain additional items (eg. remnant native tree groups not previously described in the road reserve) are shown as 'retain/ **add**' or 'upgrade/ **add**' as they

demonstrate sufficient heritage significance to be included as heritage items within the current listing. A full description of additional items/ extended portion of road reserve are identified in the Inventory Sheets. Listings shown as 'remove/ **add (group)**' are not considered to have individual significance (or significance within the group listed), however the item(s) identified should be scheduled within a broader group listing.

The List of Heritage Trees in Schedule D of HSLEP 1994 contains a number of anomalous descriptions including the following:

1. Item Name

Item Names for Inventory Sheets have generally been retained except where there is a significant anomaly or incorrect description (eg. a bushland reserve may be listed as 'street trees'). Reddy Park, Hornsby (a major bushland reserve) was described as Pretoria Street - Road Reserve with an Item Name of 'Street Trees'. Other similar 'Street Tree' listings include Sutherland Road, Epping Road (Pembroke Street) and Castle Howard Road. All of these conserve significant bushland rather than simply 'Street Trees'. These and other items have been corrected (see Inventory Sheets).

It is recommended that Item Names refer to cultural plantations as 'Street Trees' and remnant native tree groups as 'Native Tree Group' or 'Remnant Community'. Where the tree group is a critically endangered ecological community the Item Name should be followed by 'critically endangered' (eg. Native Tree Group/ Remnant Community [BGHF] – critically endangered).

2. Suburb Location/ Address

Many of the listings are within a road reserve or a portion thereof which means the listing may extend from suburb to suburb (eg. Edgeworth David Avenue, Hornsby – Waitara – Wahroonga). A number of listings however are shown in an incorrect suburb (according to postcode). These listings have been transferred to the correct suburb description.

These irregularities may have created a duplication of some listings such as Cardinal Avenue and Lilla Road (in Beecroft and Pennant Hills) and Russell Avenue (in Normanhurst and Wahroonga). Lilla Road is now listed only in Pennant Hills and Russell Avenue is shown in Wahroonga. Cardinal Avenue has been split between West Pennant Hills and Beecroft (ie. north and south of Pennant Hills Road). Refer to Table 3: Location – Amendments to Current Listings.

3. Former Names

Other irregularities involving location/ addresses are identified under 'Former Names' on the Inventory Sheets. These include, but are not limited to the following items:

- Reddy Park, Hornsby previously described as Pretoria Street – Road Reserve (Street Trees);
- 19C Ethel Street (syn. 32 Galston Road, Hornsby);
- separate listings for same road reserve – William Street, Hornsby including a listing for Jacarandas and another for remnant native trees;
- 46 Victoria Road [Lot 2 DP25436]. This listing refers to two items located in Loftus Road - Road Reserve not a private garden. This item is listed under Loftus Road (adjacent to 46 Victoria Road); and
- 35 McCusker Road (syn. 163 New Line Road, Cherrybrook).

TABLE 3: LOCATION – AMENDMENTS TO CURRENT LISTINGS

The following is a List of Amended Locations for Inventory Sheets
(streets/ roads in alphabetical order).

CURRENT LISTING/ ITEM NAME	CURRENT LOCATION/ ADDRESS	NEW LOCATION/ ADDRESS
BEECROFT ROAD (opposite Observatory Park)	BEECROFT	PENNANT HILLS
BERESFORD ROAD	NORMANHURST	THORNLEIGH
110-112 BEROWRA WATERS ROAD	BEROWRA	BEROWRA HEIGHTS
BOUNDARY ROAD (west of Kitchener Road)	PENNANT HILLS	CHERRYBROOK
CARDINAL AVENUE	BEECROFT/ PENNANT HILLS	BEECROFT/ WEST PENNANT HILLS
DEAN STREET	PENNANT HILLS	WEST PENNANT HILLS
EDWARDS ROAD	NORMANHURST	WAHROONGA
LILLA ROAD	BEECROFT/ PENNANT HILLS	PENNANT HILLS
OLD NORTHERN ROAD (east of Round Corner shops)	GLENHAVEN	DURAL
OLD NORTHERN ROAD (south of Coppabella Road)	MIDDLE DURAL	DURAL
PLYMPTON ROAD (near Orchard Road)	EPPING	BEECROFT
RUSSELL AVENUE	NORMANHURST/ WAHROONGA	WAHROONGA
SUTHERLAND ROAD (southern end)	EPPING	CHELTENHAM

The issue of ‘significant gaps in the heritage data base’ has been raised in previous discussion. A number of remnant native tree groups, including critically endangered Blue Gum High Forest (BGHF) and Sydney Turpentine-Ironbark Forest (STIF) communities, may occur in neighbouring road reserves and adjoining private properties. These are separate and additional to current listed places and items. Similarly, other items (including Built Heritage) have been identified during this review. Table 4: Recommendations for Future Listings identifies remnant native tree groups and other items for further investigation.

TABLE 4: RECOMMENDATIONS FOR FUTURE LISTINGS

The following items are referred to in the Inventory Sheets for further investigation.

LOCATION/ PROPERTY DESCRIPTION	ITEM NAME	DESCRIPTION
Albert Road, Beecroft road reserve/ private gardens	Native Tree Group	BGHF remnant
Copeland Road, Beecroft road reserve/ private gardens	Native Tree Group	BGHF remnant
Mary Street, Beecroft road reserve/ private gardens	Native Tree Group	STIF remnant
Murray Road, Beecroft road reserve/ private gardens	Native Tree Group	STIF/ BGHF remnant
77 Cheltenham Road, Cheltenham	House	House (60s modern)
5 Dorset Street, Epping	House	Cottage (Federation)
Gloucester Road, Epping road reserve/ private gardens	Native Tree Group	STIF remnant
Stuart Avenue, Normanhurst road reserve/ private gardens	Native Tree Group	BGHF remnant
33 Ingalara Avenue, North Wahroonga	House	House (Neo Georgian)
Hampden Road, Pennant Hills (west)	Houses	Residences
Hampden Road, Pennant Hills road reserve/ private gardens	Native Tree Group	BGHF remnant
Loftus Road, Pennant Hills road reserve/ private gardens	Native Tree Group	BGHF remnant
Wongala Crescent, Pennant Hills road reserve/ private gardens	Native Tree Group	BGHF remnant
Fisher Avenue/ Trebor Road & Weemala Road Group, Pennant Hills road reserve/ private gardens	Native Tree Group	BGHF remnant
7 Station Street, Thornleigh	House	Cottage (Georgian)
Trelawney Street, Thornleigh road reserve/ private gardens	Native Tree Group	BGHF remnant
Churchill Avenue, Wahroonga road reserve/ private gardens	Native Tree Group	BGHF remnant

continued over page

continued

LOCATION/ PROPERTY DESCRIPTION	ITEM NAME	DESCRIPTION
Ingalara Avenue, Wahroonga road reserve/ private gardens	Native Tree Group	BGHF remnant

...

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Blue gum at rear

Location: 9 Albert Road, Beecroft [Lot 5 DP 18182] – rear garden

Image/s:



Caption: View of old growth Sydney Blue Gum (*Eucalyptus saligna*) [left background] in rear garden of No.9 Albert Road (photo taken from Blackwood Close).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 16.07.2007/ additional: 16.07.2007

Image Path:

Image File: P7160947.jpg

Thumb Nail Path:

Thumb Nail File: additional P7160948.jpg – Old growth specimen Sydney Blue Gum (*Eucalyptus saligna*) in rear garden of No.9 Albert Road.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Blue gum at rear

Location: 9 Albert Road, Beecroft [Lot 5 DP 18182] – rear garden

Address: 9 Albert Road, Beecroft NSW 2119 [Lot 5 DP 18182]

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names:

Area/ Group/ Complex: n/a

Aboriginal Area:

Curtilage/ Boundary: Lot 5 DP 18182 – rear garden

Item Type: Landscape – Natural

Group: Vegetation community – remnant of Blue Gum High Forest (BGHF)

Category: Tree [individual specimen]

Owner: private

Current Use: private garden

Former Uses:

Assessed Significance: LOCAL (HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This old growth Sydney Blue Gum (*Eucalyptus saligna*) is an outstanding specimen of immense size and scale. It is a very old remnant tree of the Blue Gum High Forest community. Sydney Blue Gums are known to live for more than 200 years (Benson & McDougall 1998). Blue Gum High Forest (BGHF) has a highly restricted geographic distribution and is typically associated with soils derived from Wianamatta Shale (Tozer 2003). The community has been highly fragmented and modified by urban development, particularly small-scale clearing and alterations associated with residential subdivision, roads and service easement upgrades. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Blue gum at rear

Location: 9 Albert Road, Beecroft [Lot 5 DP 18182] – rear garden

Remnant native trees of this age structure, size and scale are now rare, particularly within private gardens. Native trees of this size provide essential habitat for a range of tree-dependent fauna. This tree is part of a highly fragmented remnant tree canopy (BGHF) in this local area. As an individual specimen it has significance in terms of its natural, ecological/ biodiversity, genetic, visual and aesthetic heritage values. This property also conserves another Sydney Blue Gum, albeit somewhat younger, located on the rear boundary.

Historical Notes or

Provenance: 'Mature Blue Gum with 7 metres circumference – healthy specimen estimated to be 200-300 years old' [Source: HSLEP – Inventory Sheet/ YC inspected 11.03.1997].

Physical Description: Remnant old growth specimen of Blue Gum High Forest community (BGHF) located in the rear garden/ lawn area adjacent to Lloyd Wright Way (new subdivision).

Common Name(s):
Sydney Blue Gum

Botanical Name(s):
Eucalyptus saligna

Origin: natural occurrence (BGHF remnant)

Extent of Influence: Canopy extends over rear garden/ house, adjoining properties and Lloyd Wright Way. The root zone is likely to extend to a similar or possibly larger area of influence.

Height: 30 metres

Canopy Spread: 32 metres

Trunk Diameter: 1600mm @ 1.0 metre above ground level

Estimated Age: 150 years+

Integrity/ Intactness: Some branches have been recently removed (<10%). Overall form and integrity has been retained.

Condition/ Health: This Sydney Blue Gum retains a full, balanced canopy however the tree is ageing with dead wood, hollows and cavities evident in the upper crown. A large branch on the lawn at the time of inspection displayed termite damage. The property owner recently requested the removal of the tree due to large branches dropping without any apparent cause and concerns over safety (refer to Council corro., Jilka, D., 6/05/2007 and TPO application 7/02/2007). Neighbours in 15 Albert Street and Lloyd Wright Way have also expressed serious concern. The application for removal was rejected by Council.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Blue gum at rear

Location: 9 Albert Road, Beecroft [Lot 5 DP 18182] – rear garden

The tree was inspected by an arborist and a report concluded that the tree was in good condition (Jilka, D., pers. comm. 23/07/2007). The lower branches overhanging the house and Lloyd Wright Way were removed. Recent residential subdivision and development of the access road (Lloyd Wright Way) may have further fragmented the forest structure exposing this tree to the effects of increased wind shear, localised turbulence and storm damage. In addition, construction of the new residence appears to have modified ground levels (new retaining walls) and possibly increased paved areas (courtyard) within the tree's drip-line. These factors are cumulative in their impact upon the tree's condition, status and health and require further investigation and monitoring.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

The local area (ie. Albert Road and environs) conserves significant remnants of the Blue Gum High Forest (BGHF) community including some old growth specimens within private properties which are not currently heritage listed. HSLEP4 – REVIEW recommends the addition of Albert Road (road reserve and adjoining private gardens) for heritage listing.

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments (old growth specimen).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Blue gum at rear

Location: 9 Albert Road, Beecroft [Lot 5 DP 18182] – rear garden

References: HSLEP – Inventory Sheet/ YC (inspected 11.03.1997).
Council correspondence Jilka, D., 6/05/2007 and TPO application 7/02/2007.
Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)
Tozer, MG. (2003) *Cunninghamia* 8(4): 1-75

Studies: Item not included in Hornsby Shire Heritage Study (1993).

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Boronia Avenue, Beecroft – Road reserve [between Kirkham Street and Mason Avenue]

Image/s:



Caption: View of major cluster of remnant native trees on grassed verge (near No.3 Boronia Avenue) – Sydney Turpentine-Ironbark Forest (STIF) community.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 12.07.2007/ additional: 12.07.2007

Image Path:

Image File: P7120897.jpg

Thumb Nail Path:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Boronia Avenue, Beecroft – Road reserve [between Kirkham Street and Mason Avenue]

Thumb Nail File: additional P7120898.jpg – remnant native tree group (STIF) in front garden of No.7 Boronia Avenue; P7120899.jpg – north-west view (near No.16 Boronia Ave) of STIF group; P7120900.jpg – south-east view (near No.16 Boronia Ave) of STIF group; and P7120901.jpg – south-east view (near No.39 Boronia Ave) of STIF group (Murray Road to Mason Avenue section).

Address: Boronia Avenue, Beecroft – Road Reserve

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Sydney Turpentine-Ironbark Forest (STIF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public verge/ private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This large, contiguous group of native trees, of mixed age and floristic structure, are remnant components (canopy trees) of the Sydney Turpentine-Ironbark Forest (STIF) community. The diverse range of tree species is typical of the mixed canopy structure of this community. Together the group defines a distinctive sense of place and bushland aesthetic to this suburban streetscape. Sydney Turpentine-Ironbark Forest (STIF) is scheduled as a critically endangered ecological community under the *Commonwealth*

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Boronia Avenue, Beecroft – Road reserve [between Kirkham Street and Mason Avenue]

Environment Protection and Biodiversity Conservation Act 1999 and listed as an endangered ecological community in the NSW *Threatened Species Conservation Act 1995*. This community has been highly fragmented and modified by clearing and urban development and it is estimated that only 0.5% of the original area of STIF still exists as scattered remnant groups (NSW Scientific Committee 2004). This group has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. Some old growth specimen trees are of individual significance. Furthermore, the occurrence of Kurrajong (*Brachychiton populneus*) within the group is of regional conservation significance (NSW Scientific Committee 2004).

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees (STIF community) have been retained/ protected within the wide public verge (northern side) between Kirkham Street and Murray Road and narrow verge between Murray Road and Mason Avenue. The group extends to adjoining private gardens and includes the following tree species:-

Common Name(s):

Smooth-barked Apple
Grey Ironbark
Blackbutt
Grey Gum
Red Mahogany
Turpentine
Kurrajong

Botanical Name(s):

Angophora costata
Eucalyptus paniculata subsp. *paniculata*
Eucalyptus pilularis
Eucalyptus punctata
Eucalyptus resinifera subsp. *resinifera*
Syncarpia glomulifera
Brachychiton populneus

Origin: natural occurrence (STIF remnant)

Extent of Influence: Canopies extend over public verge and partially over adjoining private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 25-30 (av. 15-22) metres

Canopy Spread: up to 25-30 metres

Trunk Diameter: up to 1000mm (av. 400-700mm) @ 1.0 metre above ground level

Estimated Age: av. 60-80 years+/- some old growth specimens up to 100-120 years+

Integrity/ Intactness: Canopy and sub-canopy species are retained in this largely contiguous group [generally few understorey species present except for single *Brachychiton populneus* and *Pittosporum undulatum* regrowth]. Adjoining private gardens retain outstanding specimen and old growth trees including No.7 Boronia

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Boronia Avenue, Beecroft – Road reserve [between Kirkham Street and Mason Avenue]

Avenue (mixed group *Eucalyptus paniculata*, *E. resinifera* and *E. punctata*). A significant cluster of trees occurs within the private gardens of Nos.39A, 39B, 39C Boronia Avenue and 14 Mason Avenue (mixed group of *Eucalyptus pilularis*, *Angophora costata* and *Syncarpia glomulifera*).

Exotic grasses and weeds dominate the ground stratum however natives including *Glycine*, *Dichondra*, *Oplismenus*, *Entolasia* spp. are still present. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning and tree removals]. This remnant group is increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. Some trees display a varying level of insect damage with hollows/ basal cavities and some dead wood in the crowns. A storm-damaged old growth Grey Ironbark (*E. paniculata*) on the verge adjacent to No.33 requires further investigation by a qualified arborist.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

The local area (ie. Boronia Avenue and environs) conserves significant remnants of the Sydney Turpentine-Ironbark Forest (STIF) community including some old growth specimens within private properties which are not currently heritage listed. HSLEP4 – REVIEW recommends including the section of Boronia Avenue (road reserve and adjoining private gardens) between Murray Road and Mason Avenue in this heritage listing.

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (STIF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Boronia Avenue, Beecroft – Road reserve [between Kirkham Street and Mason Avenue]

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 26.03.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number 1780914

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Cardinal Avenue, Beecroft – Road reserve [Copeland Road to Pennant Hills Road]

Image/s:



Caption: View looking north (near No.7 Cardinal Avenue) showing old growth specimen trees – remnants of the Blue Gum High Forest (BGHF) community.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 13.07.2007/ additional: 13.07.2007

Image Path:

Image File: P7130921.jpg

Thumb Nail Path:

Hornsby Heritage Inventory

SHI Number 1780914

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Cardinal Avenue, Beecroft – Road reserve [Copeland Road to Pennant Hills Road]

Thumb Nail File: additional P7130919.jpg – old growth Sydney Blue Gum (*Eucalyptus saligna*) on public verge adjacent to No.11 Cardinal Avenue; P7130920.jpg – old growth (*E. saligna*) [foreground]/ (*E. pilularis*) [background]; P7130923.jpg – old growth specimen (*E. saligna*) on verge adjacent to No.26; and P7130924.jpg – northern view of remnant BGHF.

Address: Cardinal Avenue, Beecroft – Road Reserve [between Copeland Road and Pennant Hills Road].

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Blue Gum High Forest (BGHF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public verge/ private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This large group of native trees are remnant components (canopy trees) of the Blue Gum High Forest (BGHF) community. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. The BGHF community is typically defined by a mixed age structure and diverse floristic composition. This remnant group is dominated by mature

Hornsby Heritage Inventory

SHI Number 1780914

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Cardinal Avenue, Beecroft – Road reserve [Copeland Road to Pennant Hills Road]

Sydney Blue Gums (*Eucalyptus saligna*), Blackbutts (*Eucalyptus pilularis*) and Turpentine (*Syncarpia glomulifera*). Although fragmented and reduced to only scattered remnant canopy trees, the group is considered to be significant in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. The dramatic size and scale of these mature trees create a distinctive sense of place and bushland aesthetic quality to this suburban streetscape. These native trees are part of a larger, albeit highly fragmented and modified BGHF remnant community, which is confined to the surrounding shale-capped ridges and slopes (see listings for Hannah Street, Chapman Avenue, Hull Road and Lyndon Way).

The Cardinal Avenue group contains some exceptional old growth specimen trees in the public verges and large private gardens. Two massive old growth Sydney Blue Gums (*Eucalyptus saligna*), located on the verges adjacent to No.11 and No.26 Cardinal Avenue, are amongst the largest known specimens in the Hornsby Shire. These trees measure approximately 30 metres high/ 25 metres canopy diameter/ 2000mm DBH and 25 metres high/ 30 metres canopy diameter/ 1700mm DBH respectively. Remnant native trees of this age structure, size and scale are now rare. They provide essential habitat for a range of tree-dependent fauna and are of individual significance.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees (BGHF community) have been retained/ protected within the public verges and large gardens of adjoining private properties and include the following tree species:-

Common Name(s):

Smooth-barked Apple
Rough-barked Apple
Blackbutt
Red Mahogany
Sydney Blue Gum
Turpentine

Botanical Name(s):

Angophora costata
Angophora floribunda
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*
Eucalyptus saligna
Syncarpia glomulifera

Origin: natural occurrence (BGHF remnant)

Extent of Influence: Canopies extend over public verges, roadway and adjoining private properties. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 30 metres+

Canopy Spread: up to 25-30 metres

Hornsby Heritage Inventory

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Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Cardinal Avenue, Beecroft – Road reserve [Copeland Road to Pennant Hills Road]

Trunk Diameter: up to 2000mm (av. 700mm-1000mm) @ 1.0 metre above ground level

Estimated Age: av. 60-80 years+/- some old growth specimens up to 120-150 years+

Integrity/ Intactness: Notably, adjoining large private gardens retain a significant proportion of the Cardinal Avenue BGHF group. A more or less contiguous group of native trees, dominated by Sydney Blue Gum (*E. saligna*) occurs within the upper northern end of Cardinal Avenue near Pennant Hills Road.

Only older canopy and sub-canopy species are retained in group structure [no understorey species present except for *Pittosporum undulatum* regrowth] – natural recruitment restricted by current management practices [eg. regular mowing/ pruning, garden maintenance and tree removals]. These trees are increasingly vulnerable to further fragmentation and attrition and are likely to be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. Some trees however have been heavily lopped in the past. The trees display a varying level of insect damage including some with large basal cavities (eg. *Eucalyptus pilularis* on verge adjacent to No.9 Copeland Road) and dead wood in the crowns.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

NOTE: State Heritage Inventory Data Base Number: 1780914 includes the section of Cardinal Avenue (incl. Samuel Oxley Park) north of Pennant Hills Road. HSLEP4 – REVIEW separates Cardinal Avenue into two listings (ie. BEECROFT and WEST PENNANT HILLS). For northern section refer to WEST PENNANT HILLS.

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Hornsby Heritage Inventory

SHI Number 1780914

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Cardinal Avenue, Beecroft – Road reserve [Copeland Road to Pennant Hills Road]

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments (incl. old growth specimens).

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)
Tozer, MG. (2003) *Cunninghamia* 8(4): 1-75

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 29.04.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland reserve

Location: Castle Howard Road, Beecroft – Road reserve & Beecroft Park/ Cheltenham Oval]

Image/s:



Caption: View of bushland between Nos.10-24 Castle Howard Road (unmade road section). The bushland corridor displays intermediate characteristics of Sydney Turpentine-Ironbark Forest (STIF), Blue Gum High Forest (BGHF) Communities and Blackbutt Gully Forest.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 12.07.2007/ additional: 12.07.2007

Image Path:

Image File: P7120892.jpg

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland reserve

Location: Castle Howard Road, Beecroft – Road reserve & Beecroft Park/ Cheltenham Oval]

Thumb Nail Path:

Thumb Nail File: additional P7120893.jpg – south-east view of remnant native tree group/ Blackbutt Gully Forest near No.28A Castle Howard Road; P7120894.jpg – south-east view (near No.38 Castle Howard Road) BGHF group; P7120895.jpg – *Eucalyptus piperita* tree group (near No.52/ adjacent to Cheltenham Oval); and P7120896.jpg – south-east view from ridge-top near No.70A Castle Howard Road/ Oaklands Avenue intersection (BGHF).

Address: Castle Howard Road, Beecroft – Road Reserve extending to adjoining private Gardens and bushland (Devlin's Creek Corridor) including Beecroft Park and Cheltenham Oval.

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside/ Park Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge/ unmade road reserve), public reserves (Beecroft Park and Cheltenham Oval) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation communities – remnant tree group/ Sydney Turpentine-Ironbark Forest (STIF), Blue Gum High Forest (BGHF) and Blackbutt Gully Forest.

Category: Parks & Reserves – bushland reserves
Trees – street trees

Owner: Hornsby Shire Council/ private

Current Use: public reserves/ verges (unmade road sections) and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland reserve

Location: Castle Howard Road, Beecroft – Road reserve & Beecroft Park/ Cheltenham Oval]

Statement of Significance: This group of native trees along the road reserve, adjoining private properties and bushland reserves in this section of the Devlin's Creek corridor (including Beecroft Park and Cheltenham Oval) is considered to be of outstanding significance. The corridor encompasses transitional remnant native tree groups and core bushland described as Sydney Turpentine-Ironbark Forest (STIF), Blue Gum High Forest (BGHF) and Blackbutt Gully Forest (Smith & Smith 2007). Sydney Turpentine-Ironbark Forest (STIF) and Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) are both listed as critically endangered ecological communities in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and endangered/ critically endangered (respectively) in the NSW *Threatened Species Conservation Act 1995*. These communities have been highly fragmented, modified and reduced in size to a very small fraction of their former geographical range. The cumulative impacts of urban development continue to reduce the ecological function of these communities.

The group retains a more or less contiguous native canopy with native understorey/ ground stratum components, particularly along the unmade road sections and Devlin's Creek reserves corridor. It is considered to have significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. The mixed canopy species are typical of this community's floristic composition. The road reserve and adjoining private gardens retain a high level of remnant native trees which provide an exceptional bushland quality to this suburban streetscape. Some old growth specimen trees are of individual significance.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: The remnant native trees and core bushland have been retained/ protected within the unmade road sections, wide public verges (no kerb and guttering), adjoining private gardens and public reserves along the Devlin's Creek corridor (including Beecroft Park and Cheltenham Oval). The following native tree species are present:-

Common Name(s):

Smooth-barked Apple
Blackbutt
Sydney Peppermint
Red Mahogany
Sydney Blue Gum
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus pilularis
Eucalyptus piperita
Eucalyptus resinifera subsp. *resinifera*
Eucalyptus saligna
Syncarpia glomulifera

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland reserve

Location: Castle Howard Road, Beecroft – Road reserve & Beecroft Park/ Cheltenham Oval

Origin: natural occurrence (see above for details)

Extent of Influence: Canopies extend over public verges/ roadway, adjoining private properties and public reserves. The root zones extend to a similar area of influence.

Height: av. 22-25 metres; up to 30 metres+

Canopy Spread: up to 25-30 metres

Trunk Diameter: varies/ up to 1000mm @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+/ some old growth specimens up to 100-120 years+

Integrity/ Intactness: The group retains a more or less contiguous canopy. A number of sections of bushland include native understorey/ ground stratum species (*Elaeocarpus*, *Pittosporum*, *Acacia*, *Xanthorrhoea*, *Breynia*, *Calochlaena*, *Pteridium* and *Lomandra* spp.). These occur mainly within the major reserves, unmaded road sections (eg. between Nos.10-24 Castle Howard Road) and steep gullies/ embankments associated with sandstone outcrops. These areas are of varying ecological integrity and resilience. Exotic weeds (eg. *Cardiospermum*, *Ligustrum*, *Lantana* and *Tradescantia* spp.) dominate much of the understorey/ ground stratum. The bushland is subject to a range of ongoing environmental impacts. A volunteer Bushcare program is addressing many of these issues.

Some particularly large old growth specimens (*Eucalyptus pilularis*) are located along the ridge area adjacent to No.62 Castle Howard Road. For much of the road reserve (public verges) and adjoining private gardens, natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, garden maintenance and tree removals]. This remnant group is increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies [overhead power lines/ canopy alignment]. Some trees display a varying level of insect damage with hollows/ basal cavities and dead wood in the crowns. A number of trees (*E. piperita*/ *E. resinifera*) near Cheltenham Oval/ road reserve have suffered serious physical damage, soil compaction and crown die-back due to peak traffic periods/ uncontrolled car parking.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

Address traffic management issues affecting trees near the oval. Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity

Hornsby Heritage Inventory

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Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland reserve

Location: Castle Howard Road, Beecroft – Road reserve & Beecroft Park/ Cheltenham Oval]

particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire 2007
Native Vegetation of the Cumberland Plain DE&CC (NSW) 2002
Scientific Committee – final determinations, DE&CC (NSW) 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 26.03.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Chapman Avenue, Beecroft – Road reserve [between Cardinal Ave and Beecroft Road]

Image/s:



Caption: View of Chapman Avenue looking east (near Cardinal Avenue intersection) showing remnant Blue Gum High Forest (BGHF) community (western group).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 13.07.2007/ additional: 13.07.2007 & 16.07.2007

Image Path:

Image File: P7130925.jpg

Thumb Nail Path:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Chapman Avenue, Beecroft – Road reserve [between Cardinal Ave and Beecroft Road]

Thumb Nail File: additional P7130928.jpg – view of remnant BGHF (from creek crossing adjacent to No.86 Chapman Avenue); P7130929.jpg – remnant BGHF along creek corridor (adjacent to No.86); P7160943.jpg – western view from near Beecroft Road of remnant BGHF (eastern group); and P7160944.jpg – west view of remnant BGHF near York Street intersection (opposite No.40 Chapman Avenue – eastern group).

Address: Chapman Avenue, Beecroft – Road Reserve [between Cardinal Avenue and Beecroft Road]

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge including unmade road reserve), public reserve/ drainage easement and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Blue Gum High Forest (BGHF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public verge, public reserve/ drainage easement and private gardens.

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: Cardinal Avenue is comprised of two distinctive groups of native trees – an eastern and western group. These contain remnant native components (canopy trees) of the Blue Gum High Forest (BGHF) community. Only the western group (ie. between Cardinal Avenue and Hull Road) was listed in the HSLEP 1994. Both groups are of significance in terms of their natural,

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Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Chapman Avenue, Beecroft – Road reserve [between Cardinal Ave and Beecroft Road]

representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. The BGHF community is typically defined by a mixed age structure and diverse floristic composition.

The western group, located within a valley corridor/ creek-line (adjoining Fearnley Park), retains a contiguous forest structure. The large private gardens adjoining the road reserve conserve a particularly large number of BGHF canopy trees, including some specimens of immense proportions and scale. The group provides a high level of connectivity with adjoining remnant groups including Hull Road, Cardinal Avenue and Hannah Street (see listings). It also links directly to Fearnley Park, a core BGHF protected area (1.94Ha) and the upper Devlin's Creek corridor. These areas are under a current bush regeneration/ restoration strategy.

The eastern group (ie. Hull Road to Beecroft Road) highly fragmented and largely confined to a lineal corridor along the road verges and adjoining private (front) gardens. Notably, this group retains a number of old growth specimens and a diverse range of canopy species, some of which are not present in the western group (eg. *Eucalyptus paniculata* and *E. globoidea*).

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees have been retained/ protected within the large private gardens, public verges (including unmade road reserve), public reserve (Fearnley Park) and drainage easement (Devlin's Creek). This BGHF group includes the following tree species:-

Common Name(s):

Smooth-barked Apple
White Stringybark
Grey Ironbark
Blackbutt
Red Mahogany
Sydney Blue Gum
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus globoidea
Eucalyptus paniculata subsp. *paniculata*
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*
Eucalyptus saligna
Syncarpia glomulifera

Origin: natural occurrence (BGHF remnant)

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SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Chapman Avenue, Beecroft – Road reserve [between Cardinal Ave and Beecroft Road]

Extent of Influence: Canopies extend over public verges/ roadway, unmade road reserve and adjoining private properties. The root zones are likely to extend to a similar area of influence.

Height: up to 25-30 metres+

Canopy Spread: up to 20-25 metres

Trunk Diameter: av. 400mm-700mm (up to 1000mm) @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+/ some old growth specimens up to 100-120 years+

Integrity/ Intactness: Generally, only canopy and sub-canopy species are retained in the group structure. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, garden maintenance and tree removals]. These remnant BGHF groups are increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed. Notably, Fearnley Park and the Devlin's Creek corridor retain some native understorey and ground stratum species (eg. *Pittosporum*, *Calochlaena* and *Dianella* spp.). Exotic weeds dominate much of the drainage corridor however these issues are being addressed under current bush regeneration/ restoration work in these areas.

Condition/ Health: Most trees appear to be in good condition with minimal pruning to canopies. The trees display a varying level of insect damage, some with basal cavities/ hollows and dead wood in the crowns.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

HSLEP4 – REVIEW recommends that the eastern section (ie. eastern group) of Chapman Avenue between Hull Road and Beecroft Road (including the road reserve and adjoining private gardens) be included in this listing.

Investigate opportunities for enhanced natural recruitment/ regeneration, particularly within gaps along the public road reservation. Seek to enhance connectivity to core BGHF areas within public reserves/ drainage corridors. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Chapman Avenue, Beecroft – Road reserve [between Cardinal Ave and Beecroft Road]

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments (incl. old growth specimens).

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 4.05.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Hannah Street, Beecroft – Road reserve [between Pennant Hills Road and Beecroft Road]

Image/s:



Caption: View of Hannah Street (western group) looking west from Fearnley Park (opposite Burns Road North) – Blue Gum High Forest (BGHF) community.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 13.07.2007/ additional: 13.07.2007 & 16.07.2007

Image Path:

Image File: P7130930.jpg

Thumb Nail Path:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Hannah Street, Beecroft – Road reserve [between Pennant Hills Road and Beecroft Road]

Thumb Nail File: additional P7130931.jpg – eastern view of remnant BGHF (opposite Burns Road North); P7130932.jpg – view of BGHF (western group) along road cutting near Cardinal Avenue intersection; P7160945.jpg – view of remnant BGHF (eastern group) near Beecroft Rd; and P7160946.jpg – BGHF remnant west of Hull Road intersection (western group) opposite No.74 Hannah Street.

Address: Hannah Street, Beecroft – Road Reserve [between Pennant Hills Road and Beecroft Road]

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verges), public reserve/ drainage easement and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Blue Gum High Forest (BGHF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public verges, public reserve/ drainage easement and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: Hannah Street is comprised of two fragmented groups (ie. western group between Pennant Hills Road and Hull Road and an eastern group between York Street and Beecroft Road). Both groups contain remnant native components of the Blue Gum High Forest (BGHF) community. The eastern group (ie. between York Street and Beecroft Road) was not listed in the HSLEP 1994. Both groups are of significance in terms of their natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Hannah Street, Beecroft – Road reserve [between Pennant Hills Road and Beecroft Road]

values. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. The BGHF community is typically defined by a mixed age structure and diverse floristic composition. The western group, adjoining Fearnley Park and the Devlin's Creek corridor (adjacent to Burns Road North), provides an important linkage with remnant BGHF in Cardinal Avenue, Chapman Avenue and Hull Road (refer to listings). Fearnley Park, a core BGHF protected area (1.94Ha) and the upper Devlin's Creek corridor are under a current bush regeneration/ restoration strategy. The western group also retains a small but very diverse native understorey and ground stratum within a road cutting. Road-side examples of BGHF with understorey components, particularly along ridge-tops, are now rare in the Hornsby Shire.

The eastern group is highly fragmented and largely confined to a lineal corridor along the road verges and adjoining private (front) gardens. Notably, this group retains a number of old growth specimens including White Mahogany (*Eucalyptus acmenoides*), Sydney Blue Gum (*Eucalyptus saligna*) and Blackbutt (*E. pilularis*). Old growth specimens of *E. acmenoides* are now rare in the Sydney metropolitan area (Benson & McDougall 1998).

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees have been retained/ protected within the public verges, public reserve (Fearnley Park), drainage easement (Devlin's Creek) and adjoining private gardens. This BGHF group includes the following tree species:-

Common Name(s):

Smooth-barked Apple
White Mahogany
Blackbutt
Red Mahogany
Sydney Blue Gum
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus acmenoides
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*
Eucalyptus saligna
Syncarpia glomulifera

Origin: natural occurrence (BGHF remnant)

Extent of Influence: Canopies extend over public verges/ roadway and adjoining private properties. The root zones are likely to extend to a similar area of influence.

Height: up to 25-30 metres

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Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Hannah Street, Beecroft – Road reserve [between Pennant Hills Road and Beecroft Road]

Canopy Spread: up to 20-25 metres

Trunk Diameter: av. 400mm-700mm (up to 1000mm) @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+/- some old growth specimens up to 100-120 years+

Integrity/ Intactness: Generally, only canopy and sub-canopy species are retained in the group structure except within a small part of the western group (road cutting and Fearnley Park) and upper eastern group. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, garden maintenance and tree removals]. These remnant BGHF groups are increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

The BGHF group adjoining the road cutting/ embankments between Fearnley Park and Cardinal Avenue retains a largely intact native understorey and ground stratum (ie. adjacent to Nos.92-98 and 83 Hannah Street to No.16 Cardinal Avenue). Native species include *Alphitonia excelsa*, *Exocarpus cupressiformis*, *Persoonia linearis*, *Elaeocarpus reticulatus*, *Acacia implexa*, *Bursaria spinosa*, *Platylobium formosum* and *Hardenbergia*, *Kennedia*, *Lomandra* and *Dianella* spp. This list is indicative only. Exotic weeds dominate much of the understorey and native species would respond to bush regeneration. Fearnley Park and the Devlin's Creek corridor also retain native understorey (eg. *Pittosporum*, *Calochlaena* and *Dianella* spp.). These areas are under a current bush regeneration/ restoration strategy.

Condition/ Health: Most trees appear to be in good condition with minimal pruning to canopies. The trees display a varying level of insect damage, some with basal cavities/ hollows and dead wood in the crowns.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

HSLEP4 – REVIEW recommends that the eastern section (ie. eastern group) of Hannah Street between York Street and Beecroft Road (including the road reserve and adjoining private gardens) be included in this listing.

Investigate opportunities for enhanced natural recruitment/ regeneration, particularly within the western road cutting and gaps along the public road reservation. Seek to enhance connectivity to core BGHF areas within public reserves/ drainage corridors. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health,

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Hannah Street, Beecroft – Road reserve [between Pennant Hills Road and Beecroft Road]

condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments (incl. old growth specimens).

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)
Tozer, MG. (2003) *Cunninghamia* 8(4): 1-75

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 4.05.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]
Location: Hull Road, Beecroft – Road reserve

Image/s:



Caption: View of remnant Blue Gum High Forest (BGHF) looking north towards Devlin's Creek corridor (adjacent to No.26 Hull Road).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 13.07.2007/ additional: 13.07.2007

Image Path:

Image File: P7130927.jpg

Thumb Nail Path:

Thumb Nail File: additional P7130926.jpg – view of Hull Road looking south (opposite No.43 Hull Road) – remnant Blue Gum High Forest (BGHF) community.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]
Location: Hull Road, Beecroft – Road reserve

Address: Hull Road, Beecroft – Road Reserve

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verges), public reserve/ drainage easement and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Blue Gum High Forest (BGHF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public verges, public reserve/ drainage easement and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This group of native trees, of mixed age and floristic structure, are remnant components (canopy trees) of the Blue Gum High Forest (BGHF) community. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is scheduled as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. The BGHF community has a highly restricted geographical distribution and is further threatened by urban development.

Although highly fragmented and reduced to only scattered remnant canopy trees (particularly in the section north of Pennant Hills Road), the group is considered to be significant in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. The dramatic size and scale of these mature trees create a distinctive sense of place and

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SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Hull Road, Beecroft – Road reserve

bushland aesthetic quality to this suburban streetscape. Notably, most of this remnant group occurs within adjoining large private gardens surrounding the Devlin's Creek corridor (north of Chapman Avenue). This group provides a high level of connectivity with Fearnley Park, a core BGHF protected area (1.94Ha) and other remnant BGHF groups in Hannah Street, Chapman Avenue and Cardinal Avenue (see listings). Furthermore, a number of old growth specimen trees, occurring within the Devlin's Creek corridor, are of individual significance.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees (BGHF community) have been retained/ protected within the public verges, drainage easement and adjoining private gardens and include the following tree species:-

Common Name(s):

Smooth-barked Apple
White Stringybark
Blackbutt
Red Mahogany
Sydney Blue Gum
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus globoidea
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*
Eucalyptus saligna
Syncarpia glomulifera

Origin: natural occurrence (BGHF remnant)

Extent of Influence: Canopies extend over public verges/ roadway and adjoining private properties. The root zones are likely to extend to a similar area of influence.

Height: up to 25-30 metres+

Canopy Spread: up to 20-25 metres+

Trunk Diameter: av. 400mm-700mm (up to 1200mm) @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+/ some old growth specimens up to 100-120 years+

Integrity/ Intactness: Generally, only canopy and sub-canopy species are retained in the group structure. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, maintenance and tree removals]. Remnant BGHF groups are increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Notably, old growth specimen trees occur along Devlin's Creek (adjacent to Nos.28-30 and 41-43A Hull Road). Although exotic weeds dominate the understorey along this drainage easement, some native understorey and

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Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Hull Road, Beecroft – Road reserve

ground stratum species are present (eg. *Pittosporum undulatum*, *Calochlaena* and *Dianella* spp.). This area is under a volunteer Bushcare program.

Condition/ Health: Most trees appear to be in good condition with minimal pruning to canopies. The trees display a varying level of insect damage, some with basal cavities/ hollows and dead wood in the crowns.

Recommended Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

The northern section of Hull Road (ie. between Pennant Hills Road and Lee Road – WEST PENNANT HILLS) retains a remnant BGHF community but is highly fragmented and reduced to individual trees in most locations. HSLEP4 – REVIEW recommends that this northern section of Hull Road be included in the current listing.

Investigate opportunities for enhanced natural recruitment/ regeneration, particularly along the public road reservation. Seek to enhance connectivity to core BGHF areas within public reserves/ drainage corridors. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007

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Item Name: Street trees [Roadside trees]
Location: Hull Road, Beecroft – Road reserve

NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)
Tozer, MG. (2003) *Cunninghamia* 8(4): 1-75

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 4.05.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reserve [Street trees]

Location: Lyndon Way, Beecroft – Public reserve [road reserve]

Image/s:



Caption: View of Lyndon Way Reserve from The Glen – Blue Gum High Forest (BGHF) community dominated by Sydney Blue Gum (*Eucalyptus saligna*).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 16.07.2007/ additional: 16.07.2007

Image Path:

Image File: P7160949.jpg

Thumb Nail Path:

Thumb Nail File: additional P7160950.jpg – view looking south-east (adjacent to No.12 Lyndon Way) towards Lyndon Way Reserve BGHF community.

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Hornsby Heritage Inventory – Stage 4

Item Name: Reserve [Street trees]

Location: Lyndon Way, Beecroft – Public reserve [road reserve]

Address: Lyndon Way, Beecroft – Public Reserve

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Street Trees

Area/ Group/ Complex: Group of remnant native trees in small public reserve and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Blue Gum High Forest (BGHF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public reserve/ playground and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This native regrowth group, mostly of similar age and floristic structure, is comprised of remnant components (canopy trees) of the Blue Gum High Forest (BGHF) community. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. Although primarily an immature regrowth group (av. 30-50 years+) dominated by Sydney Blue Gums (*Eucalyptus saligna*), older mature specimens including *Eucalyptus pilularis* and *E. paniculata* also occur within this small public reserve. Notably, many neighbouring private gardens retain significant stands of native trees (BGHF community). The trees create a distinctive sense of place and bushland aesthetic to this suburban streetscape. Together the group is considered to be significant in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reserve [Street trees]

Location: Lyndon Way, Beecroft – Public reserve [road reserve]

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees (BGHF community) have been retained/ protected within this small public reserve and neighbouring private gardens and include the following tree species:-

Common Name(s):

White Stringybark

Grey Ironbark

Blackbutt

Sydney Blue Gum

Cherry Ballart

Botanical Name(s):

Eucalyptus globoidea

Eucalyptus paniculata subsp. *paniculata*

Eucalyptus pilularis

Eucalyptus saligna

Exocarpus cupressiformis

Origin: natural occurrence (BGHF remnant)

Extent of Influence: Canopies extend over public verges/ roadway and neighbouring private properties. The root zones are likely to extend to a similar area of influence.

Height: av. 18-22 metres (up to 25 metres)

Canopy Spread: av. 6-10 metres (up to 15 metres)

Trunk Diameter: av. 150mm-300mm (up to 700mm) @ 1.0 metre above ground level

Estimated Age: av. 30-50 years+/- some older trees up to 50-80 years+

Integrity/ Intactness: Mostly only canopy species are retained in the group [understorey species are restricted to individual *Exocarpus cupressiformis*, *Pittosporum undulatum* and *Acacia implexa*]. Most of the reserve is under a regular mowing regime. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, play area maintenance and tree removals]. A small section of the reserve has been mulched with leaf litter providing some opportunities for regeneration. This remnant group is vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition, typical of this age group/ structure with minimal pruning to canopies. The trees display a varying level of insect damage, some with large basal cavities and dead wood in the crowns.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO REGIONAL SIGNIFICANCE. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF NATIONAL AND STATE SIGNIFICANCE.

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SHI Number

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Item Name: Reserve [Street trees]

Location: Lyndon Way, Beecroft – Public reserve [road reserve]

Investigate opportunities for enhanced natural recruitment/ regeneration, particularly along the public road reservation. Seek to enhance connectivity to core BGHF areas. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)
Tozer, MG. (2003) *Cunninghamia* 8(4): 1-75

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 4.05.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland

Location: Malton Road, Beecroft – Road reserve

Image/s:



Caption: View of old growth Blackbutt (*Eucalyptus pilularis*) group – remnant Sydney Turpentine-Ironbark Forest (STIF) (adjacent to Nos. 28-32 Malton Road).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 16.07.2007/ additional: 16.07.2007

Image Path:

Image File: P7160954.jpg

Thumb Nail Path:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland

Location: Malton Road, Beecroft – Road reserve

Thumb Nail File: additional P7160955.jpg – Brush Box (*Lophostemon confertus*) row plantation (opposite Nos.2-16 Malton Road); P7160953.jpg – view looking south-east towards bushland (Blackbutt Gully Forest) on steep slope (adjacent to No.54 Malton Road); P7160952.jpg – view of Blackbutt Gully Forest looking north-west (near No.84 Malton Road); P7160951.jpg – south-east view (near No.84 Malton Road) of Blackbutt Gully Forest community.

Address: Malton Road, Beecroft – Road Reserve

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Informal groupings of remnant native trees grading to bushland and mixed formal row plantation [cultural planting] in road reserve (public verge) and private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary:

Item Type: Landscape – Natural/ Cultural

Group: Vegetation community – Sydney Turpentine-Ironbark Forest (STIF) and Blackbutt Gully Forest; and Parks, Gardens and Trees – exotic planting

Category: Trees – street trees [remnant native tree group/ bushland and formal exotic row plantation]

Owner: Hornsby Shire Council/ private

Current Use: public reserves/ verges and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (GROUP A)/ LOCAL (GROUP B)

Statement of Significance: The scattered, remnant native trees along the upper central ridgeline include an outstanding grove of old growth Blackbutt (*Eucalyptus pilularis*). These are remnant components (canopy trees) of the Sydney Turpentine-Ironbark Forest (STIF) community. Sydney Turpentine-Ironbark Forest (STIF) is

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland

Location: Malton Road, Beecroft – Road reserve

scheduled as a critically endangered ecological community under the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* and listed as an endangered ecological community in the NSW *Threatened Species Conservation Act 1995*.

The steep eastern slopes and lower valley support a Blackbutt Gully Forest (Smith & Smith, 2007), previously described as Sydney Sandstone Gully Forest (Map Unit 10agii) (Benson & Howell 1994). Blackbutt Gully Forest is locally significant in Hornsby Shire (Smith & Smith 2007, HSBCS 2006). The carriageway narrows on this steep eastern section. The road reserve and adjoining private properties retain a tall, native canopy dominated by Smooth-barked Apple (*Angophora costata*) and Blackbutt (*Eucalyptus pilularis*). Native understorey and natural sandstone outcrops are conserved throughout this area. Together the mature ridge-top trees and bushland of the steep slopes and lower valley define a distinctive sense of place and aesthetic quality. The remnant STIF community of the shale/ sandstone transition and Blackbutt Gully Forest of the Hawkesbury Sandstone (shale influence) have significance in terms of their natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values.

The upper western portion of Malton Road (ie. southern verge) has been embellished with a Post-War period formal row plantation of Brush Box (*Lophostemon confertus*). The row adjoins private residences and gardens dating from the early Inter-War period. The informal, scattered group of Jacarandas (*Jacaranda mimosifolia*) is believed to be a later addition. Similar aged trees are found in adjoining gardens. Both species have been used extensively in street tree plantations throughout Sydney since the early twentieth century. The *Jacaranda* sp. and other exotic planting of *Prunus* sp. are not considered to have significance at the local level.

Historical Notes or

Provenance: Malton Road appears in the Field of Mars subdivision (1887) and has many fine houses dating from c.1900-1930 (Perumal Murphy Wu Pty Ltd, 1993).

Physical Description: Group A: The scattered native trees and bushland have been retained/ protected within the public verge and adjoining private gardens. An old growth group of Blackbutt (*Eucalyptus pilularis* – 6No.) and Turpentine (*Syncarpia glomulifera*) occur on the public verge adjacent to Nos.28-32 Malton Road to Seale Close intersection and adjoining private gardens. Tree species include:-

Common Name(s):
Smooth-barked Apple
Red Bloodwood

Botanical Name(s):
Angophora costata
Corymbia gummifera

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Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees] and bushland

Location: Malton Road, Beecroft – Road reserve

Sydney Peppermint

Eucalyptus piperita

Blackbutt

Eucalyptus pilularis

Turpentine

Syncarpia glomulifera

Group B: The single species row plantation along the public verge (opposite Nos. 2-16 Malton Road) is comprised of Brush Box (*Lophostemon confertus*).

Origin: Group A: natural occurrence (see above for details); and
Group B: ornamental/ cultivated (*L. confertus* – NSW north coast and Qld.).

Extent of Influence: Canopies extend over public verge, roadway and adjoining private properties.
The root zones are likely to extend to a similar area of influence.

Height: Group A: up to 25-30 metres; Group B: up to 10-14 metres

Canopy Spread: Group A: up to 25 metres; Group B: up to 6-8 metres

Trunk Diameter: Group A: up to 1000mm @ 1.0 metre above ground level
Group B: 300mm-600mm @ 1.0 metre above ground level

Estimated Age: Group A: up to 50-80 years+/ old growth specimens up to 120-150 years+;
Group B: av. 50-60 years+

Integrity/ Intactness: Group A: Only older canopy trees are retained in STIF group structure [no sub-canopy or understorey species are present]. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, garden maintenance and tree removals]. Remnant groupings are increasingly vulnerable to further fragmentation and attrition and are likely to be lost altogether over time unless these management issues are properly addressed. The Blackbutt Gully Forest of the steep eastern slope retains a diverse native understorey (including *Allocasuarina*, *Elaeocarpus*, *Hakea*, *Acacia*, *Pittosporum* and *Lomandra* spp.).

Condition/ Health: Group A: Most trees appear to be in fair to good condition with minimal pruning to canopies. Some trees display basal cavities/ hollows and a varying level of dead wood in the canopies.
Group B: Most trees appear to be in fair to good condition, typical of this species, age group/ structure. The group displays a past history of heavy pruning to canopies (pollarding).

Recommended Management: GROUP A: UPGRADE LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs.

THIS GROUP IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF NATIONAL AND STATE SIGNIFICANCE.

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Item Name: Street trees [Roadside trees] and bushland

Location: Malton Road, Beecroft – Road reserve

GROUP B: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

HSLEP4 – REVIEW recommends that the *Jacaranda* sp. and other exotic planting of *Prunus* sp. be removed from the HSLEP listing. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (STIF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (natural vegetation on ridgeline/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments (old growth specimens).

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire 2007
Native Vegetation of the Cumberland Plain DE&CC (NSW) 2002
Scientific Committee – final determinations, DE&CC (NSW) 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 4.05.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Two Angophora trees

Location: 7 Mary Street, Beecroft [Lot 8 DP 758074 section 2] – front garden

**RECOMMENDATION: REMOVE ITEM FROM HERITAGE LISTING/
INCLUDE WITHIN EXPANDED GROUP LISTING**

Image/s:



Caption: View of two Smooth-barked Apples (*Angophora costata*) in front garden of No.7 Mary Street (photo taken from Mary Street).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 16.07.2007

Image Path:

Image File: P7160956.jpg

Thumb Nail Path:

Thumb Nail File:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Two Angophora trees

Location: 7 Mary Street, Beecroft [Lot 8 DP 758074 section 2] – front garden

Address: 7 Mary Street, Beecroft NSW 2119

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names:

Area/ Group/ Complex:

Aboriginal Area:

Curtilage/ Boundary: Lot 8 DP 758074 sec 2 – front garden

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Sydney Turpentine-Ironbark Forest (STIF)

Category: Tree [individual specimen]

Owner: private

Current Use: private garden

Former Uses:

Assessed Significance: LOCAL (HSLEP Review – Stage 1: Amendment No.38 Gazetted 24/09/1999)

Endorsed Significance: **NOT SIGNIFICANT (TWO TREES)**
(HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: These two Smooth-barked Apples (*Angophora costata*) are components (canopy trees) of the Sydney Turpentine-Ironbark (STIF) community. The two trees are of a similar age structure to many other STIF community trees in local private gardens, the adjacent school grounds (Beecroft Primary School), adjoining bushland reserve and Mary Street road reserve (public verges). These trees are not considered to have group (2No.) or individual significance value. Nevertheless, they are vital components of the Sydney Turpentine-Ironbark Forest (STIF) which is scheduled as a critically endangered ecological community under the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* and listed as an endangered ecological community in the NSW *Threatened Species Conservation Act 1995*. This property contains other mature STIF community trees which have not been

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SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Two Angophora trees

Location: 7 Mary Street, Beecroft [Lot 8 DP 758074 section 2] – front garden

previously identified (eg. *Syncarpia glomulifera*). One tree next to the house is proposed for removal (Owner: Pavan, pers. comm. 16/07/2007).

Mary Street retains a significant remnant STIF community along the public verges, within the school grounds and adjoining private gardens. Beecroft Primary School retains a large contiguous tree group including *Angophora costata*, *Syncarpia glomulifera*, *Eucalyptus paniculata*, *E. globoides* and *E. resinifera*. Notably, No.3 Mary Street 'Leaurella' conserves an outstanding old growth specimen Smooth-barked Apple (*Angophora costata*) in the rear garden. The canopy spans the entire large block (22 metres in height, 28 metres canopy spread, 1500mm DBH, estimated age: 200 years+). This tree was identified in the Inventory Sheet (author unknown 1997).

Historical Notes or Provenance:

Physical Description: Two remnant trees (STIF community) located in front garden.

Common Name(s):
Smooth-barked Apple

Botanical Name(s):
Angophora costata

Origin: natural occurrence (STIF remnants)

Extent of Influence: Canopies extend over front garden and partially over adjoining properties. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: 18-22 metres

Canopy Spread: 12-18 metres

Trunk Diameter: 700-900mm @ 1.0 metre above ground level

Estimated Age: 80-100 years+

Integrity/ Intactness:

Condition/ Health: One tree (possibly older specimen) appears to be in good condition while the tree next to boundary No.5 is in poor condition with heavy pruning and extensive dead wood in the crown. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Recommended

Management: REMOVE ITEM (TWO ANGOPHORA TREES) LISTING IN HSLEP.

The local area (ie. Mary Street and environs) conserves significant remnants of the Sydney Turpentine-Ironbark (STIF) community which are not currently

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Two Angophora trees

Location: 7 Mary Street, Beecroft [Lot 8 DP 758074 section 2] – front garden

heritage listed. HSLEP4 – REVIEW recommends the addition of Mary Street (including the road reserve, school grounds and adjoining private gardens) for heritage listing.

In addition, the old growth specimen Smooth-barked Apple (*Angophora costata*) in the rear garden of No.3 Mary Street 'Leaurella' is recommended for a separate heritage listing.

References: Inventory Sheet/ author unknown (inspected 11/03/1997). Item listed in HSLEP Review – Stage 1: Amendment No.38 Gazetted 24/09/1999).

Studies:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Murray Road, Beecroft – Road reserve

Image/s:



Caption: View of Brush Box (*Lophostemon confertus*) avenue looking south-west from near The Crescent (main eastern group).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 12.07.2007/ additional: 12.07.2007

Image Path:

Image File: P7120902.jpg

Thumb Nail Path:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Murray Road, Beecroft – Road reserve

Thumb Nail File: additional P7120903.jpg – view of Brush Box (*Lophostemon confertus*) row looking north-east from western side of Beecroft Road (western group). ; and P7120904.jpg – remnant STIF/ BGHF group looking south-west (opposite No.22 Murray Road).

Address: Murray Road, Beecroft – Road Reserve [east of Beecroft Road]

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Formal single species avenue and row plantation (cultural planting) on public verge as scheduled.

Aboriginal Area:

Curtilage/ Boundary:

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – generic native planting

Category: Trees – street trees [formal avenue/ row plantation]

Owner: Hornsby Shire Council

Current Use: road reserve/ public verge

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: The remnant Brush Box (*Lophostemon confertus*) in Murray Road (east and west of Beecroft Road) present largely as a row plantation of varying age structure and integrity. Some of these native cultivated trees may date from the Post War period (1940s to 1960s). The original group contains significant replacement/ infill planting. The predominant use of a single native species (Brush Box) continues an important local thematic approach typical of this period (refer to other similar listings – The Promenade and The Boulevarde, Cheltenham). Overall integrity of the avenue however has been compromised by significant losses and heavy pruning (pollarding) of canopies, particularly

Hornsby Heritage Inventory

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Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Murray Road, Beecroft – Road reserve

under overhead power lines along the northern verge. The avenue/ row of Brush Box has local group significance in terms of its historic/ cultural associations, visual, aesthetic and representative values. This species has been used extensively in street tree plantations throughout Sydney since the early twentieth century. Hornsby Shire retains significant Post War period plantations (refer to listings).

In addition to the above cultivated trees, the lower south-western section of Murray Road (ie. the road reserve and adjoining private gardens between Boronia Avenue and Castle Howard Road) retains remnant transitional Sydney Turpentine-Ironbark Forest (STIF)/ Blue Gum High Forest (BGHF) communities. Both of these ecological communities are listed as critically endangered in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and endangered/ critically endangered (respectively) in the NSW *Threatened Species Conservation Act 1995*. The Murray Road STIF/ BGHF group includes a diverse range of species and a number of old growth specimens. It is contiguous with the Boronia Avenue and Castle Howard Road groups (refer to listings).

Historical Notes or

Provenance: Brush Box avenue/ row plantation believed to have been planted c.1950 (Perumal Murphy Wu Pty Ltd, 1993).

Physical Description: The formal avenue (29 No.) (east of Beecroft Road) and row plantation (7No.) (northern verge immediately west of Beecroft Road) is comprised of a single native species:-

Common Name(s):

Brush Box

Botanical Name(s):

Lophostemon confertus

Origin: cultivated native of the NSW north coast and Qld.

Extent of Influence: Canopies extend over public verge and partially over adjoining private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 12-14 metres

Canopy Spread: av. 8-10 metres (up to 14 metres)

Trunk Diameter: 300mm-600mm @ 1.0 metre above ground level

Estimated Age: av. 40-60 years+

Integrity/ Intactness: Heavy crown pruning and the level of past replacement/ infill planting has reduced overall integrity of the original plantation. Remaining trees are increasingly vulnerable to further fragmentation and attrition and may be lost

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Item Name: Street trees

Location: Murray Road, Beecroft – Road reserve

altogether over time unless these management issues are properly addressed. Other management options such as aerial bundling of power lines should be considered in the context of these heritage trees.

Condition/ Health: Most trees appear to be in fair to good condition, typical of this species, age group/ structure with extensive pruning/ alignment to canopies for overhead power lines [northern verge].

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

HSLEP4 – REVIEW recommends inclusion of the Brush Box row plantation (Murray Road) immediately west of Beecroft Road intersection (ie. western group) which was previously not included in this listing. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

and

HSLEP4 – REVIEW recommends that the remnant transitional Sydney Turpentine-Ironbark Forest (STIF)/ Blue Gum High Forest (BGHF) group in the lower south-western section of Murray Road (ie. the road reserve and adjoining private gardens between Boronia Avenue and Castle Howard Road) be included in a separate listing.

THIS GROUP IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF NATIONAL AND STATE SIGNIFICANCE.

Further Comments: Historic/ cultural associations with urban development
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Murray Road, Beecroft – Road reserve

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., no date].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: English Oak tree

Location: 67A Murray Farm Road, Beecroft [Lot 3 DP 552887]

Image/s:



Caption: View of specimen English Oak (*Quercus robur*) in rear garden of No.67A Murray Farm Road (taken from neighbouring property No.5 Bullawai Place).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 12.07.2007

Image Path:

Image File: P7120891.jpg

Thumb Nail Path:

Thumb Nail File:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: English Oak tree

Location: 67A Murray Farm Road, Beecroft [Lot 3 DP 552887]

Address: 67A Murray Farm Road, Beecroft [Lot 3 DP 552887]

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names:

Area/ Group/ Complex:

Aboriginal Area:

Curtilage/ Boundary: Lot 3 DP 552887 – rear (eastern) garden

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – exotic planting

Category: Specimen tree – private garden

Owner: private

Current Use: private garden

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This English Oak (*Quercus robur*) is an outstanding specimen of considerable size and scale dating from the late Inter-War period (c.1915-1940). This deciduous exotic tree is a 'Hordern Oak' and was planted as a 'honey tin' seedling in 1938. The tree was planted in this location on the former Borsman estate (Richmond, P., Council corro., 2007 and pers. comm. 12/07/2007). This cultivated specimen has significance in terms of its historic/ cultural associations, visual, aesthetic and representative values. This is one of a number of English Oaks planted at this time in the Hornsby Shire.

Historical Notes or

Provenance: In 1938 the Hordern family imported 50,000 oak seedlings from England to give away to customers in a store promotion to celebrate the retailer's 115th year of trading. Possibly the most well-known example of these seedlings is now a landmark specimen tree located in the courtyard of 'The Oaks' Hotel,

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: English Oak tree

Location: 67A Murray Farm Road, Beecroft [Lot 3 DP 552887]

Neutral Bay. The famous Hordern Oak on Razorback Mountain with the inscription "*While I live I grow*" was a significant landmark planting in Sydney for many generations. The tree was believed to have been poisoned and died soon after the sale of Anthony Horderns to Waltons in 1970.

Physical Description: Single exotic specimen tree located in rear (eastern) private garden of No. 67A Murray Farm Road (adjacent to boundary).

Common Name(s):
English Oak

Botanical Name(s):
Quercus robur

Origin: Ornamental/ cultivated deciduous species (*Quercus robur* – Europe).
Extent of Influence: Canopy extends over rear garden/ house and partially over neighbouring properties (Nos.5 and 7 Bullawai Place). The root zone is likely to extend to a similar or possibly larger area of influence.
Height: 18 metres
Canopy Spread: 22 metres
Trunk Diameter: 1200mm @ 1.0 metre above ground level
Estimated Age: 69 years

Integrity/ Intactness: High level of integrity and intactness with minimal pruning history. Owner is concerned that neighbours may wish to prune/ align the canopy affecting overall integrity, balance and health of the tree.

Condition/ Health: In recent years the tree developed a fungal infection (two pathogens were identified by Royal Botanic Gardens). This resulted in a temporary loss of vigour and reduced leaf size during spring flush. The tree was sprayed with a series of anti-fungal agents and appears to have responded to this treatment. There is some competition with planted Eucalypts which will need to be monitored.

Recommended Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Historic/ cultural associations with Anthony Hordern retailer
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b) item has strong or special association with retailer (Anthony Horderns)

Criteria c)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: English Oak tree

Location: 67A Murray Farm Road, Beecroft [Lot 3 DP 552887]

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References: Submission to Council by owner regarding history of tree (Richmond, P., corro., 18/05/2007). Owner supports Council's heritage listing.

Studies: Hornsby Heritage Study Review – Stage 1 [Survey by: LT 1998].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Orchard Road, Beecroft – Road reserve

Image/s:



Caption: View of Tallowwood (*Eucalyptus microcorys*) plantation looking south (opposite No.43 Orchard Road).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 5.07.2007/ additional: 12.07.2007

Image Path:

Image File: P7050904.jpg

Thumb Nail Path:

Thumb Nail File: additional P7120890.jpg – view of Orchard Road looking north-east from Plympton Road intersection showing plantation of Tallowwood.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Orchard Road, Beecroft – Road reserve

Address: Orchard Road, Beecroft

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Single species row plantation (cultural planting) adjacent to public verge as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Cultural/ Natural

Group: Parks, Gardens and Trees – generic native planting; and
Vegetation community – Blue Gum High Forest

Category: Trees – street trees [row plantation]

Owner: private/ Hornsby Shire Council

Current Use: private gardens/ public reserve

Former Uses: orchards/ commercial flower growers

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: A single species row plantation of Tallowwood (*Eucalyptus microcorys*), planted possibly during the 1950s, makes a dramatic visual impact on the quality of the Orchard Road streetscape. The contiguous planted strip (except for a small gap at the northern end) forms a distinctive visual foil of substantial height and scale along the eastern verge. These cultivated Eucalypts, native to the NSW north coast and Qld, have local group significance in terms of their historic, cultural, visual, aesthetic and representative values.

Recent correspondence suggested that the plantation may date from the 1950s period (Muller, R., Council corro. 1/05/2007), however it has been confirmed that in 1964 these fast growing trees were only saplings (1.8-2.5 metres high) (Jeans, A., pers. corro. 27/07/2007). It is believed that planting was undertaken c.1962 along the boundary line (ie. 3-4 metre wide strip) of

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SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Orchard Road, Beecroft – Road reserve

largely cleared paddocks. The cultivated trees may be associated with enhancement for a residential subdivision. This area lying between Murray Farm Road and Plympton Road was originally part of Charles Tucker's home and orchard known as 'Plympton'.

The layout reflects the growing interest in an Australian garden style and the environment during the Post War period. The group is an early example of the massed, informal planting style which aimed to create a 'natural bushland' character. Although Tallowwoods were widely planted during the 1970s to 1980s period, the size and scale of this plantation is somewhat rare in the Sydney metropolitan area. Notably, these trees are of a similar age, structure and layout to a neighbouring plantation along the northern verge of Plympton Road. Together these groups form an almost contiguous buffer strip adjoining private properties and bushland corridor. These plantations may also have associations with another similar planted group in Cowan (see listings).

Furthermore, the plantation is bisected by a natural creek/ bushland corridor. The Blue Gum High Forest (BGHF) community, currently under a volunteer Bushcare program, merges with the Tallowwood plantation. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is scheduled as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. While the plantation is visually consistent with the forest structure and character of the local BGHF community, management and conservation issues need to be addressed (see below for details).

Historical Notes or

Provenance: Tallowwoods believed to have been planted c.1960s period (Perumal Murphy Wu Pty Ltd, (1993).

Physical Description: The row plantation is located within the front boundaries of private properties (eastern side) between Plympton Road (rear garden of No.73 Plympton Road) and Murray Farm Road (grounds of St Peters Anglican Church). The plantation is comprised of a single species:-

Cultivated:	Tallowwood	<i>Eucalyptus microcorys</i> [approx. 97 No.]
Natural:	Sydney Blue Gum	<i>Eucalyptus saligna</i>

Origin: Cultivated native trees *E. microcorys* – NSW north coast to SE Qld; and natural occurrence of Blue Gum High Forest components.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Orchard Road, Beecroft – Road reserve

Extent of Influence: Canopies extend over public verge, private properties and partially over roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 22-25 metres

Canopy Spread: up to 15-22 metres

Trunk Diameter: 200mm-700mm (av. 450-600mm) @ 1.0 metre above ground level

Estimated Age: 50-60 years+

Integrity/ Intactness: The more or less contiguous row plantation retains a high level of overall integrity and intactness except for a small break near northern end (Nos. 41-43). The group is densely planted and has an early history of heavy pruning (former SCC power-line clearance).

Condition/ Health: Most trees appear to be in fair to good condition, typical of this species, age group/ structure with minimal recent pruning/ alignment to canopies.

Recommended

Management: RETAIN LISTING IN HSLEP (incl. Blue Gum High Forest components).

Tallowwood may colonise and naturalise within local bushland outside its natural range. Concerns have been raised by local Bushcare volunteers over potential conflicts with the bush regeneration/ restoration program (pers. comm., 12/07/2007). This issue needs to be monitored and managed accordingly. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Historic/ cultural associations with urban development
Aesthetic/ visual significance (local neighbourhood/ streetscape)
Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Orchard Road, Beecroft – Road reserve

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 26.11.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Plympton Road, Beecroft – Road reserve [between Calool Road and Coverdale Street]

Image/s:



Caption: View of Plympton Road looking west [opposite Ray Park] showing mixed plantation of Tallowwood (*Eucalyptus microcorys*) and Spotted Gum (*Corymbia maculata*) with remnant Blue Gum High Forest components.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 12.07.2007/ additional: 05.07.2007

Image Path:

Image File: P7120889.jpg

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Plympton Road, Beecroft – Road reserve [between Calool Road and Coverdale Street]

Thumb Nail Path:

Thumb Nail File: additional P7050902.jpg – view of mixed plantation looking east along Plympton Road near Coverdale Street intersection with Blue Gum High Forest (BGHF) components; P7050903.jpg – looking towards plantation from Scout Hall grounds showing remnant BGHF (incl. *Eucalyptus paniculata*).

Address: Plympton Road, Beecroft

Suburb/ Nearest Town: Beecroft NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Mixed species row plantation (cultural planting) adjacent to public verge as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Cultural/ Natural

Group: Parks, Gardens and Trees – generic native planting; and Vegetation community – Blue Gum High Forest

Category: Trees – street trees [mixed row plantation & remnant native tree group]

Owner: Hornsby Shire Council/ private

Current Use: private gardens/ public reserve (scout hall)

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This mixed species plantation of Tallowwood (*Eucalyptus microcorys*) and Spotted Gum (*Corymbia maculata*) has an informal, massed layout within a 3-4 metre wide strip adjoining the public verge. The group is believed to date from the early 1960s. The trees make an outstanding contribution to the visual and aesthetic character of this streetscape. They form a dramatic visual foil of substantial height and scale along the northern verge. The group may be

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Plympton Road, Beecroft – Road reserve [between Calool Road and Coverdale Street]

associated with development of the residential subdivision adjoining the public reserve/ bushland corridor. These trees are of a similar age, structure and layout to a neighbouring and complimentary plantation along the eastern verge of Orchard Road (see listing).

Tallowwood and Spotted Gum are common cultivated trees in parks and private gardens throughout the Sydney area. These species were widely planted during the 1970s to 1980s period. The size and scale of this mixed plantation is somewhat rare in the Sydney metropolitan area. The plantation has local group significance in terms of its historic, cultural, visual/ aesthetic and representative values. A visually prominent plantation of Tallowwood also occurs along the southern approach to Cowan. All groups are of similar age structure and may date from the same period (see listing).

Notably, the plantation merges with mature and regenerating local native species typical of the Blue Gum High Forest (BGHF) community, including canopy, understorey and ground stratum species (eg. *Eustrephus*, *Clematis*, *Hardenbergia* and *Acacia* spp.). The local native Grey Ironbark (*Eucalyptus paniculata*) is a common tree component within the western portion of the plantation (ie. public reserve). Mature and old growth Sydney Blue Gums (*E. saligna*) and Blackbutts (*E. pilularis*) are present within the group. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is scheduled as a critically endangered ecological community under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. While the plantation is visually consistent with the forest structure and character of the local BGHF community, management and conservation issues need to be addressed (see below for details).

Historical Notes or

Provenance: Tallowwoods believed to have been planted c.1960s period (Perumal Murphy Wu Pty Ltd, (1993).

Physical Description: The mixed row plantation occurs within the public reserve and front boundaries of private properties (Nos. 1-17) adjoining the public verge between Calool Road (opposite Ray Park) to Coverdale Street intersection. The group is comprised of the following tree species:-

	Common Name(s):	Botanical Name(s):
Cultivated:	Tallowwood	<i>Eucalyptus microcorys</i> [approx. 66 No.]
	Spotted Gums	<i>Corymbia maculata</i> [approx. 16 No.]
Natural:	Grey Ironbark	<i>Eucalyptus paniculata</i> subsp. <i>paniculata</i>

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Plympton Road, Beecroft – Road reserve [between Calool Road and Coverdale Street]

Sydney Blue Gum
Blackbutt

Eucalyptus saligna
Eucalyptus pilularis

Origin: Cultivated native trees incl. *E. microcorys* – NSW north coast to SE Qld. and *C. maculata* – NSW south coast to Bundaberg, SE Qld; and natural occurrence of Blue Gum High Forest components.

Extent of Influence: Canopies extend over public verge, private properties, public reserve and partially over roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 22-25 metres

Canopy Spread: up to 15-25 metres

Trunk Diameter: 300mm-900mm @ 1.0 metre above ground level

Estimated Age: 50-60 years+

Integrity/ Intactness: The contiguous row plantation retains a high level of overall integrity and intactness with no evidence of any major losses. The plantation is being progressively colonised through natural recruitment/ regeneration of local native canopy and understorey species (BGHF), particularly along western section (public reserve). An old growth specimen (*E. saligna* – 1200mm DBH) occurs on the public verge adj. to No.11 Plympton Road.

Condition/ Health: Most trees appear to be in fair to good condition, typical of this species, age group/ structure with minimal pruning/ alignment to canopies. Trees (3 No.) next to the narrow vehicular entry to scout hall have extensive physical damage to trunks and basal cavities.

Recommended

Management: RETAIN LISTING IN HSLEP (incl. Blue Gum High Forest components).

All native species (BGHF community) including mature trees, understorey and ground stratum recruitment/ regeneration within the plantation should be retained, conserved and managed as part of the broader entity. The approach highlights the dynamic context and multi-layering of natural and cultural heritage values in this listing. It provides for protection and conservation of natural ecological processes which were not previously identified. Cultivated Tallowwoods and Spotted Gums may colonise and naturalise within local bushland outside their natural range. This issue needs to be monitored and managed accordingly. The adjoining bushland corridor is under a volunteer Bushcare program and these issues have been discussed with local team members (pers. comm., 12/07/2007).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Plympton Road, Beecroft – Road reserve [between Calool Road and Coverdale Street]

For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Historic/ cultural associations with urban development
Aesthetic/ visual significance (local neighbourhood/ streetscape)
Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g)

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 29.04.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Mason Avenue, Cheltenham – Road reserve

RECOMMENDATION: REMOVE FROM HERITAGE LISTING

Image/s:



Caption: View of mixed row plantation with Jacarandas (*Jacaranda mimosifolia*) [foreground] and Camphor Laurels (*Cinnamomum camphora*) [left background].

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 13.07.2007

Image Path:

Image File: P7130918.jpg

Thumb Nail Path:

Thumb Nail File:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Mason Avenue, Cheltenham – Road reserve

Address: Mason Avenue, Cheltenham – Road Reserve

Suburb/ Nearest Town: Cheltenham NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Mixed row plantation (cultural planting) on public verge as scheduled.

Aboriginal Area:

Curtilage/ Boundary:

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – exotic planting

Category: Trees – street trees [row plantation]

Owner: Hornsby Shire Council

Current Use: road reserve/ public verge

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: NOT SIGNIFICANT (HSLEP-4 REVIEW LandArc 2007)

The small row plantation of Camphor Laurels (*Cinnamomum camphora*), located in the south-eastern verge adjacent to No.1 Mason Avenue, possibly dates from the early Post War period (c.1940s). There are no individual specimens of significance and the trees are not considered to have historic or cultural significance as a group. All four trees are of poor form and integrity. This exotic species has been in cultivation (Sydney area) since the early nineteenth century and has gained notoriety as an environmental weed. Camphor Laurel is an aggressive coloniser of disturbed bushland and is listed as a noxious weed in Hornsby Shire (HSBCS 2006 - Appendix 14). The row of immature Jacarandas (*Jacaranda mimosifolia*) was possibly planted during the 1970s-1980s period. This is a very common cultivated species.

Historical Notes or

Provenance: Camphor Laurels believed to have been planted c.1940s to 1950s (Perumal Murphy Wu Pty Ltd, 1993).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Mason Avenue, Cheltenham – Road reserve

Physical Description: The exotic row plantation, located in the south-eastern grass verge, is comprised of the following species:-

Common Name(s):

Camphor Laurel

Jacaranda

Botanical Name(s):

Cinnamomum camphora [4 No.]

Jacaranda mimosifolia [7 No. immature]

Origin: Ornamental/ cultivated (*C. camphora* – China and *J. mimosifolia* – Brazil).

Extent of Influence: Canopies extend over public verge and partially over adjoining private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: *C. camphora* 12-15 metres

Canopy Spread: *C. camphora* 7-15 metres

Trunk Diameter: *C. camphora* 600mm-900mm @ 1.0 metre above ground level

Estimated Age: *C. camphora* 50-60 years+

Integrity/ Intactness:

Condition/ Health: The Camphor Laurels are in fair to poor condition with a past history of extensive lopping/ alignment to canopies. These trees display significant dead wood, decay, thinning canopies and dead wood in the crowns.

Recommended

Management: REMOVE ITEM (STREET TREES) LISTING IN HSLEP.

The lower western portion of Mason Avenue conserves significant remnants of the Sydney Turpentine-Ironbark Forest (STIF) community which are not currently heritage listed. HSLEP4 – REVIEW recommends the inclusion of 14 Mason Avenue in the Boronia Avenue listing.

References:

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 23.04.1993].

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Bushland reserve [southern end]

Location: Sutherland Road, Epping – Reserve [along Devlin's Creek]

Image/s:



Caption: View of Devlin's Creek riparian corridor showing natural pools/ rock outcrops with native riparian understorey.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 12.07.2007/ additional: 13.07.2007

Image Path:

Image File: P7120910.jpg

Thumb Nail Path:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Bushland reserve [southern end]

Location: Sutherland Road, Epping – Reserve [along Devlin's Creek]

Thumb Nail File: additional P7120905.jpg – Devlin's Creek riparian corridor (photo taken from Sutherland Road cul-de-sac) – remnant native Peppermint-Angophora Forest community/ weed dominated community (Camphor Laurel canopy); P7130906.jpg – view of natural creek channel and banks impacted by weeds (near cul-de-sac); P7120907.jpg – old growth Sydney Peppermint (*Eucalyptus piperita*); and P7130911.jpg – Smooth-barked Apple (*Angophora costata*) on upper slopes to rail corridor.

Address: Sutherland Road, Epping – south end [reserve along Devlin's Creek].

Suburb/ Nearest Town: Epping NSW 2121

Other/ Former Names: Reserve/ Street trees [southern end]

Area/ Group/ Complex: Remnant bushland/ riparian corridor (including road/ rail and drainage reserves east of rail corridor) as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – Peppermint-Angophora Forest community

Category:

Owner: Hornsby Shire Council

Current Use: road reserve/ drainage reserve and rail corridor

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This important remnant bushland reserve/ riparian corridor, including the road and drainage reserves east of the railway line, is described as Peppermint-Angophora Forest (Smith & Smith 2007), also known as Sydney Sandstone Gully Forest (Map Unit 10agi) (Benson & Howell 1994). This Hawkesbury Sandstone gully, with its natural rock formations, pools and riffles along

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Bushland reserve [southern end]

Location: Sutherland Road, Epping – Reserve [along Devlin's Creek]

Devlin's Creek, forms an important natural buffer between the upper rail corridor and adjoining residential development. The lower southern end of Sutherland Road divides the bushland into riparian corridor and upper sandstone slopes. Peppermint-Angophora Forest is the most common ecological community in the Hornsby Shire and is well represented in local conservation reserves (Smith & Smith 2007).

Although highly fragmented and heavily impacted by exotic weeds, this bushland and natural creek-line are considered to be significant in terms of their natural, representative, ecological/ biodiversity, genetic, visual and aesthetic values. The level of surrounding and upstream development (including the adjoining M2 Motorway) has seriously affected water quality and much of the native riparian bushland adjoining the roadway. Nevertheless, a remarkable level of natural biodiversity has been retained in this remnant parcel of bushland. The combination of riparian corridor and natural bushland creates a distinctive sense of place. Furthermore, this remnant community is part of the Devlin's Creek reserves system which links to core bushland along the Lane Cove River (Lane Cove National Park).

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: This riparian corridor/ remnant bushland has been retained and protected within the road reserve/ drainage reserve (adjoining Devlin's Creek) east of the rail corridor and south of Lot 2B Sutherland Road. Native canopy species include the following:-

Common Name(s):

Smooth-barked Apple

Red Bloodwood

Blackbutt

Sydney Peppermint

Grey Gum

Narrow-leaved Scribbly Gum

Botanical Name(s):

Angophora costata [co-dominant]

Corymbia gummifera

Eucalyptus pilularis

Eucalyptus piperita [co-dominant]

Eucalyptus punctata

Eucalyptus racemosa

Origin: natural occurrence – (Peppermint-Angophora Forest)

Extent of Influence: Bushland within road and drainage reserves east of rail corridor. Some tree canopies extend partially over roadway. The root zones extend to a similar area of influence.

Height: up to 18-25 metres+

Canopy Spread: up to 20-25 metres

Trunk Diameter: up to 1000mm @ 1.0 metre above ground level

Estimated Age: varies; old growth specimens up to 120-150 years+

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Bushland reserve [southern end]

Location: Sutherland Road, Epping – Reserve [along Devlin's Creek]

Integrity/ Intactness: The site's history of disturbance, modification and changes to fire regime has led to a high level of fragmentation and simplification of the community's floristic and structural characteristics. The riparian corridor adjacent to the cul-de-sac is heavily weed infested with a fragmented native canopy dominated by mature Camphor Laurel (*Cinnamomum camphora*) up to 18-22 metres high. Most of the Sydney Peppermints (*Eucalyptus piperita*) adjacent to the road reserve are affected by crown die-back. In this section the understorey/ ground stratum is dominated by exotic weeds including *Ligustrum*, *Cotoneaster*, *Lantana*, *Cardiospermum*, *Asparagus* spp.).

Notably, the riparian corridor retains a diverse suite of native sub-canopy and understorey species including *Tristaniopsis laurina*, *Callicoma serratifolia*, *Lomatia myricoides* and *Callistemon*, *Leptospermum* spp. The Peppermint-Angophora Forest of the upper slopes (adjoining the rail corridor) retains a largely intact native canopy and understorey of *Allocasuarina*, *Banksia*, *Leptospermum*, *Hakea*, *Elaeocarpus*, *Persoonia*, *Acacia*, *Xanthorrhoea*, *Grevillea* and *Gleichenia* spp.

Condition/ Health: This small parcel of bushland remains vulnerable to further fragmentation and modification due to its narrow lineal configuration and exposure to a broad range of urban catchment issues. In particular, natural regeneration of native species continues to be restricted by the level of exotic weed growth.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

Investigate implementation of an appropriately funded bush regeneration/ restoration strategy along the creek corridor and adjoining slopes. This section of Devlin's Creek riparian corridor, with its natural pools and riffles, rock formations and remnant natural vegetation offers exceptional opportunities for restoration. For further detailed assessment of health, condition and management recommendations for canopy trees located adjacent to the roadway, a qualified arborist should be consulted.

Further Comments: Riparian corridor/ remnant bushland
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (riparian corridor and local streetscape)

Criteria a)

Criteria b)

Criteria c)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Bushland reserve [southern end]

Location: Sutherland Road, Epping – Reserve [along Devlin's Creek]

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire 2007
Native Vegetation of the Cumberland Plain DE&CC (NSW) 2002
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 26.03.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Boulevarde, Cheltenham – Road reserve

Image/s:



Caption: View of Brush Box (*Lophostemon confertus*) row plantation looking south-west along The Boulevarde.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 24.04.2007/ additional: 13.07.2007

Image Path:

Image File: P4240379.jpg

Thumb Nail Path:

Thumb Nail File: additional P7130913.jpg – view of Brush Box (*Lophostemon confertus*) row plantation (opposite No.10 The Boulevarde).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Boulevarde, Cheltenham – Road reserve

Address: The Boulevarde – Road Reserve

Suburb/ Nearest Town: Cheltenham NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Formal single species row plantation (cultural planting) on public verge as scheduled.

Aboriginal Area:

Curtilage/ Boundary:

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – generic native planting

Category: Trees – street trees [formal row/ avenue plantation]

Owner: Hornsby Shire Council

Current Use: road reserve/ public verge

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: The Brush Box (*Lophostemon confertus*) plantation has significance in terms of its historic/ cultural associations, visual, aesthetic and representative values. It is unclear as to the original design intent of a single species row or avenue plantation. While only scattered individuals of varying age structure occur along the western verge, a more or less contiguous row of Brush Box has been retained along the eastern verge. This row plantation, albeit heavily lopped under overhead power lines, is believed to date from the Post War period (1940s to 1960s), possibly c.1950s. The use of this native species continues an important local thematic approach typical of this period (refer to other local listings – Murray Road, Beecroft and The Promenade, Cheltenham). Hornsby LGA retains significant plantations of Brush Box associated with new subdivisions and embellishment of railway stations and the rail corridor (refer to listings).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Boulevarde, Cheltenham – Road reserve

Historical Notes or

Provenance: Brush Box row/ avenue believed to have been planted c.1950s period (LandArc Pty Ltd, 2007) rather than c.1960 (Perumal Murphy Wu Pty Ltd, 1993).

Physical Description: The row plantation (approx. 30 No.), located along the eastern grass verge, is comprised of the following species:-

Common Name(s):

Brush Box

Botanical Name(s):

Lophostemon confertus

Origin: cultivated native of the NSW north coast and Qld.

Extent of Influence: Canopies extend over public verge and partially over adjoining private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 6-7 metres

Canopy Spread: av. 7-10 metres

Trunk Diameter: av. 500mm-700mm @ 1.0 metre above ground level

Estimated Age: av. 50-60 years+

Integrity/ Intactness: Overall integrity of the row plantation has been compromised by the need for regular pruning (pollarding) of the canopies under low overhead power lines. Crown development, massing and scale typical of this species have been highly restricted by this program. Supplementary planting of *Jacaranda* and *Phoenix* spp. and use of smaller growing exotics such as *Prunus* sp. have further reduced overall integrity and cohesiveness of the original plantation. Much of this additional planting is considered to be intrusive.

Condition/ Health: Most trees appear to be in fair to good condition, typical of this species, age group/ structure with extensive pruning/ alignment to canopies for overhead power lines [eastern verge]. Most trees show evidence of insect damage and decay within the heavily lopped crowns.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

Management options such as aerial bundling of power lines should be considered in the context of these heritage listed trees. Remaining trees are increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Boulevarde, Cheltenham – Road reserve

Further Comments: Historic/ cultural associations with urban development
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References:

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 24.09.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Period trees

Location: 1 The Boulevarde, Cheltenham [Lot 1 DP 576233]

Image/s:



Caption: View of two Norfolk Island Pines (*Araucaria heterophylla*) [right and left background] in rear garden of No.1 The Boulevarde (taken from front garden).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 13.07.2007/ additional: 13.07.2007

Image Path:

Image File: P7130912.jpg

Thumb Nail Path:

Thumb Nail File: additional P7130914.jpg – Norfolk Island Pines (*Araucaria heterophylla*) in No.1 The Boulevarde (taken from Cheltenham Recreation Club entrance).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Period trees

Location: 1 The Boulevarde, Cheltenham [Lot 1 DP 576233]

Address: 1 The Boulevarde, Cheltenham [Lot 1 DP 576233]

Suburb/ Nearest Town: Cheltenham NSW 2119

Other/ Former Names: Trees

Area/ Group/ Complex: Two specimen Norfolk Island Pines (cultural planting) in private garden as scheduled.

Aboriginal Area:

Curtilage/ Boundary: Lot 1 DP 576233 – rear garden

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – exotic planting

Category: Specimen trees – private garden

Owner: private

Current Use: private garden

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: These two Norfolk Island Pines (*Araucaria heterophylla*) have significance in terms of their historic/ cultural associations, visual, aesthetic, landmark and representative values. The specimens are believed to be the remnants of a garden dating from the early Inter-War period (c.1915-1940) or possibly earlier during the development of 'Edensor'. Although not particularly large specimens, these pines continue to be important cultural elements and have considerable visual prominence and integrity. A further Norfolk Island Pine, of similar size and age, occurs in the front garden of No.3 The Boulevarde. Norfolk Island Pines have been used extensively in private gardens and public planting schemes throughout Sydney since the early nineteenth century (Wilson 2004 and LandArc 2005). Older specimens are uncommon in the Hornsby Shire.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Period trees

Location: 1 The Boulevarde, Cheltenham [Lot 1 DP 576233]

Notably, the garden retains a number of cultivated native rainforest species dating from the late Inter-War or early Post War periods including Lemon-scented Myrtle (*Backhousia citriodora*), Illawarra Flame Tree (*Brachychiton acerifolius*) and Queensland Firewheel Tree (*Stenocarpus sinuatus*). Although none of these specimens are particularly large they are important contextual elements from this period. Furthermore, a substantial specimen Outeniqua Yellow-wood (*Afrocarpus falcatus*) (12 metres in height, 16 metres canopy spread and 1000mm DBH) is located within the eastern boundary group. Other period exotics include English Oak (*Quercus robur*), Liquidambar (*Liquidambar styraciflua*), Atlas Cedar (*Cedrus atlantica 'glauca'*) and Canary Island Date Palms (*Phoenix canariensis*).

Historical Notes or

Provenance: Norfolk Island Pines are believed to have been planted c.1910-20 or possibly earlier during development of 'Edensor' (Perumal Murphy Wu Pty Ltd, 1993).

Physical Description: Two specimen Norfolk Island Pines are located in the rear garden of No.1 The Boulevarde (adjacent to rear boundary). The garden also contains a number of other contextual elements (see above for details):-

Common Name(s):

Norfolk Island Pines

Botanical Name(s):

Araucaria heterophylla

Origin: Ornamental/ cultivated (Norfolk Island).

Extent of Influence: Canopies extend over the rear garden and neighbouring properties including Cheltenham Recreation Club. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: 22-25 metres

Canopy Spread: 9-12 metres

Trunk Diameter: 600mm-800mm @ 1.0 metre above ground level

Estimated Age: 90-100 years+

Integrity/ Intactness:

Condition/ Health: These pines appear to be in fair condition and health with relatively dense crowns however there is evidence of long term decline, poor apical growth and loss of vigour.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Period trees

Location: 1 The Boulevard, Cheltenham [Lot 1 DP 576233]

For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Early historic/ cultural associations
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References: Discussed trees with owner during site inspection 13/ 07.2007. Owner has lived in existing residence since 1970s.
LandArc Pty Limited, Register of Significant Trees for City of Sydney (2005)
Wilson, E. Poetry of Place – Royal Botanic Gardens, Sydney 2004 [pp.43-44]

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 24.09.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Crescent, Cheltenham – Road reserve [opp. Cheltenham Recreation Club/ Rail land]

RECOMMENDATION: REMOVE FROM HERITAGE LISTING

Image/s:



Caption: View of remnant Monterey Pines (*Pinus radiata*) [dominant - background] and mixed tree group [foreground] near Cheltenham Railway Station (photo taken from Cheltenham Road intersection).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 13.07.2007/ additional: 13.07.2007

Image Path:

Image File: P7130915.jpg

Thumb Nail Path:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Crescent, Cheltenham – Road reserve [opp. Cheltenham Recreation Club/ Rail land]

Thumb Nail File: additional P7130916.jpg – view of mixed Camphor Laurels (*Cinnamomum camphora*) and Monterey Pines (*Pinus radiata*) opposite Cheltenham Recreation Club.

Address: The Crescent, Cheltenham – Road Reserve [opposite Cheltenham Recreation Club/ Rail land]

Suburb/ Nearest Town: Cheltenham NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant fragmented group (cultural planting) on public verge as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – exotic planting

Category: Trees – street trees [group/ plantation]

Owner: Hornsby Shire Council

Current Use: road reserve/ public verge

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: NOT SIGNIFICANT (HSLEP-4 REVIEW LandArc 2007)

A small remnant group of Monterey Pines (*Pinus radiata*) have been retained within The Crescent road reserve opposite Cheltenham Recreation Club, the rail lands and Cheltenham Railway Station. The original plantation, possibly dating from c.1920s period, has become highly fragmented and compromised over time. The remaining, largely senescent pines, present as scattered individuals, mostly of poor form and integrity. A particularly large specimen pine (18 metres in height, 15 metres canopy spread and 1500mm DBH) has been heavily lopped/ aligned along the rail corridor boundary, seriously affecting its form, balance and integrity. The tree is in decline.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Crescent, Cheltenham – Road reserve [opp. Cheltenham Recreation Club/ Rail land]

Overall, these pines form associations with other cultivated and self-sown colonising/ noxious weed species including Camphor Laurel (*Cinnamomum camphora*), often within disused or poorly maintained land adjoining the rail corridor. A single Maritime Pine (*Pinus pinaster*) (opposite the railway station) may have been part of the earlier planting scheme. Remnant individual Monterey Pines can be found along much of The Crescent road corridor and some may be self-sown from the original population. Although the remaining pines are typical of an historic thematic style found throughout the Hornsby Shire, they are not considered to have significance as a group (refer to listings). A small row plantation of Brush Box has also been planted on the verge opposite the railway station (c.1960s period) and this group has local neighbourhood amenity value only (ie. no group significance).

Historical Notes or

Provenance: Monterey Pines believed to have been planted c.1920s (Perumal Murphy Wu Pty Ltd, 1993).

Physical Description: The remnant trees, located on the road verges and railway land opposite the Cheltenham Recreation Club and Cheltenham Railway Station; are comprised of the following species:-

Common Name(s):

Monterey Pine
Maritime Pine
Camphor Laurels

Botanical Name(s):

Pinus radiata [7 No. dominant]
Pinus pinaster
Cinnamomum camphora

Origin: Ornamental/ cultivated (*P. radiata* – California, USA; *P. pinaster* – North Africa to SW Europe; *C. camphora* – China).

Extent of Influence: Canopies extend over public verge and partially over adjoining private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: 10-18 metres

Canopy Spread: 9-15 metres

Trunk Diameter: 500mm-1500mm @ 1.0 metre above ground level

Estimated Age: up to 80-90 years+

Integrity/ Intactness:

Condition/ Health: Most trees appear to be in generally poor to very poor condition with thinning canopies, extensive dead wood/ branches, insect damage and cavities. Many of the trees appear to have been affected by the prolonged drought. Some canopies have been highly modified through severe pruning/ alignment. One pine is in serious decline with 90% crown die-back. A particularly large

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Crescent, Cheltenham – Road reserve [opp. Cheltenham Recreation Club/ Rail land]

specimen Monterey Pine (opposite the CRC) has been heavily lopped/ aligned along the rail corridor boundary, seriously compromising its form and integrity. This ageing tree has extensive decay, large basal cavities and is competing with a large, self-sown Camphor Laurel.

Recommended

Management: REMOVE ITEM (STREET TREES) LISTING IN HSLEP.

Most of these pines are either senescent or approaching senescence and it is recommended that a new planting scheme be initiated, using a different species in accordance with Council's tree management policy. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

References:

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 24.09.1992].

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Promenade, Cheltenham – Road reserve

Image/s:



Caption: View of avenue of Brush Box (*Lophostemon confertus*) looking south-west along The Promenade (opposite Cheltenham Girls High School).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 13.07.2007

Image Path:

Image File: P7130917.jpg

Thumb Nail Path:

Thumb Nail File:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Promenade, Cheltenham – Road reserve

Address: The Promenade, Cheltenham – Road Reserve

Suburb/ Nearest Town: Cheltenham NSW 2119

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Formal single species avenue plantation (cultural planting) on public verge as scheduled.

Aboriginal Area:

Curtilage/ Boundary:

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – generic native planting

Category: Trees – street trees [formal avenue plantation]

Owner: Hornsby Shire Council

Current Use: road reserve/ public verge

Former Uses: n/a

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: The Promenade contains a fine example of a formal avenue plantation dating from the Post War period (1940s to 1960s), possibly the 1950s. The group has significance in terms of its historic/ cultural associations, visual, aesthetic and representative values. The use of a single native species, Brush Box (*Lophostemon confertus*), continues an important thematic approach typical of this period (see other listings – The Boulevarde, Cheltenham and Murray Road, Beecroft). The original design intent of a single species avenue has been retained. In the upper eastern section of The Promenade the avenue combines with mixed boundary planting along Cheltenham Girls High School to create a dramatic visual statement. Together the canopies create a dense, evergreen tunnel-effect over the roadway.

Brush Box has been used extensively in street tree plantations throughout Sydney since the early twentieth century. Hornsby Shire retains significant

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Promenade, Cheltenham – Road reserve

plantations associated with embellishment of new subdivisions, the railway corridor and railway stations since the late Inter-War period (refer to listings).

Historical Notes or

Provenance: Brush Box avenue believed to have been planted c.1950s (LandArc Pty Ltd) rather than c.1960s (Perumal Murphy Wu Pty Ltd, 1993).

Physical Description: The avenue plantation (approx. 55 No.), located along the grass verges, is comprised of the following species:-

Common Name(s):
Brush Box

Botanical Name(s):
Lophostemon confertus

Origin: cultivated native of the NSW north coast and Qld.

Extent of Influence: Canopies extend over public verge and partially over adjoining private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 10-15 metres

Canopy Spread: av. 6-10 metres

Trunk Diameter: av. 450mm-700mm @ 1.0 metre above ground level

Estimated Age: av. 50-60 years+

Integrity/ Intactness: Overall form and integrity of the avenue has been compromised by the need for regular pruning (pollarding) of canopies, particularly under overhead power lines along the north-western verge. In recent years trees along the south-eastern verge have been allowed to grow taller after a long period of pollarding.

Replacement/ infill planting since the 1970s-80s period using a mix of Brush Box and other exotic deciduous species, such as Jacaranda (*Jacaranda mimosifolia*), has reduced overall integrity and cohesiveness of the original plantation. Remaining heritage trees are increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed. Hornsby Shire Heritage Study (Perumal Murphy Wu, 1993) suggested the option of removing the Brush Box avenue to improve the view of planted trees in Cheltenham Girls High School. Other management options such as aerial bundling of power lines should be considered in the context of these heritage trees.

Condition/ Health: Most trees appear to be in fair to good condition, typical of this species, age group/ structure with extensive pruning/ alignment to canopies for overhead

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: The Promenade, Cheltenham – Road reserve

power lines. Some trees display basal cavities (eg. tree adjacent to No.28 The Promenade) and decay in crown wood associated with past lopping.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Historic/ cultural associations with urban development
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References:

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 27.09.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Natural vegetation

Location: Beecroft Road, Epping – Road reserve [bushland between Carlingford Rd and Kandy Ave]

Image/s:



Caption: View of Beecroft Road looking south towards remnant native bushland on both sides of roadway – Peppermint-Angophora Forest (upper slopes) [left] and Blackbutt Gully Forest (along drainage reserve) [right] (photo taken from near Kandy Avenue)

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 24.04.2007/ additional: 24.04.2007

Image Path:

Image File: P4240377.jpg

Thumb Nail Path:

Thumb Nail File: additional P4240378.jpg – view looking south of Peppermint-Angophora Forest [left] located on higher ground between rail corridor and roadway.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Natural vegetation

Location: Beecroft Road, Epping – Road reserve [bushland between Carlingford Rd and Kandy Ave]

Address: Beecroft Road, Epping – road reserve and drainage reserve

Suburb/ Nearest Town: Epping NSW 2121

Other/ Former Names: Bushland between Carlingford Road and Kandy Avenue

Area/ Group/ Complex: Remnant bushland (including rail/ road and drainage reserves as scheduled).

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – Peppermint-Angophora Forest and Blackbutt Gully Forest

Category:

Owner: Hornsby Shire Council

Current Use: rail corridor, road reserve and drainage reserve

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This important remnant bushland reserve/ corridor, located immediately west of the railway corridor, includes the road and drainage reserves on each side of Beecroft Road. The bushland grades from Peppermint-Angophora Forest (on the upper eastern slopes) to Blackbutt Gully Forest (along the western drainage reserve – including the steep slopes and lower gully) (Smith & Smith 2007). This community was previously described as Sydney Sandstone Gully Forest (Map Units 10agi/ 10agii) (Benson & Howell 1994). This bushland occurs on Hawkesbury Sandstone and forms an important natural buffer along the busy rail/ road corridor. Peppermint-Angophora Forest is the most common ecological community in the Hornsby Shire and is well represented in local conservation reserves (Smith & Smith 2007). Blackbutt Gully Forest, although common within the Hornsby Shire, is poorly conserved outside the local area. Blackbutt Gully Forest is considered to be of local significance in Hornsby Shire (Smith & Smith 2007 and HSBCS 2006).

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Item Name: Natural vegetation

Location: Beecroft Road, Epping – Road reserve [bushland between Carlingford Rd and Kandy Ave]

Although highly fragmented and impacted by exotic weeds, this bushland is considered to be significant in terms of its natural, representative, ecological/ biodiversity, genetic, visual and aesthetic values. The bushland character and tall canopy trees on both sides of the road corridor create a memorable sense of place to this highly urbanised transport corridor. The tall canopies of these trees almost interlock over the roadway. The surrounding urban development has seriously affected much of this bushland, particularly along the drainage reserve (part of the Devlin's Creek catchment) which has been piped and channelled. Nevertheless, a remarkable level of natural biodiversity has been retained in these two areas.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: This remnant bushland is divided by Beecroft Road into two linear parcels – Group A: between the rail/ road corridor (upper eastern portion) and Group B: road/ drainage reserve (lower gully western portion). The native canopy species include the following:-

Common Name(s):

Smooth-barked Apple
Red Bloodwood
White Stringybark
Blackbutt
Sydney Peppermint
Red Mahogany
Turpentine

Botanical Name(s):

Angophora costata
Corymbia gummifera
Eucalyptus globoidea
Eucalyptus pilularis
Eucalyptus piperita
Eucalyptus resinifera
Syncarpia glomulifera

Origin: natural occurrence – see above for details

Extent of Influence: Bushland is largely confined to the rail/ road and drainage reserves. Some tree canopies extend over roadway. The root zones extend to a similar area of influence.

Height: up to 18-25 metres+

Canopy Spread: up to 15-25 metres

Trunk Diameter: up to 600mm-800mm @ 1.0 metre above ground level

Estimated Age: av. 50-60 years+/- some old growth specimens up to 100-120 years+

Integrity/ Intactness: The remnant bushland has been affected by past clearing, soil disturbance, altered drainage, nutrient enrichment, rubbish dumping and varying levels of weed invasion. The narrow linear configuration and fragmented nature of these bushland areas further exposes them to a range of ongoing edge conditions and impacts which will require specialised management and conservation. Large parts of the reserves, particularly the upper and lower

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Item Name: Natural vegetation

Location: Beecroft Road, Epping – Road reserve [bushland between Carlingford Rd and Kandy Ave]

sections of the drainage reserve are heavily impacted by exotic weed species (ie. up to 90-100% weed understorey). Nevertheless, the upper eastern bushland (Peppermint-Angophora Forest) and much of the mid-portion of the drainage reserve (Blackbutt Gully Forest) display a medium to high level of ecological integrity and resilience with a relatively intact native canopy, understorey and ground stratum. Native understorey includes *Allocasuarina*, *Hakea*, *Persoonia*, *Polyscias*, *Acacia*, *Grevillea*, *Leucopogon*, *Dodonaea*, *Bursaria*, *Pittosporum*, *Zieria*, *Lomandra*, *Gahnia* spp. This bushland would respond to a bush regeneration/ restoration strategy.

Condition/ Health: These parcels of bushland remain vulnerable to further fragmentation and modification due to their narrow lineal configuration and exposure to a broad range of urban catchment issues. Natural regeneration of native species continues to be restricted by the level of exotic weed growth, particularly within the drainage reserve. Furthermore, opportunities for enhanced connectivity/ bio-linkages and genetic exchange remain low in this highly urbanised context.

Most trees appear to be in fair to good condition with minimal pruning to canopies. Some trees in the group display evidence of cavities/ hollows, storm damage, dead branches in canopies and epicormic growth (see above for bushland condition).

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

Investigate opportunities for implementing an appropriately funded bush regeneration/ restoration strategy. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and management recommendations for canopy trees located adjacent to the roadway, a qualified arborist should be consulted.

Further Comments: Blackbutt Gully Forest/ Peppermint-Angophora Forest of local significance
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (rail/ major road corridor and streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

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Item Name: Natural vegetation

Location: Beecroft Road, Epping – Road reserve [bushland between Carlingford Rd and Kandy Ave]

Criteria e)

Criteria f)

Criteria g)

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire 2007
Native Vegetation of the Cumberland Plain DE&CC (NSW) 2002
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 10.09.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Chester Street, Epping – Road reserve

Image/s:



Caption: View of Chester Street looking east near No.36 Chester Street – remnant tree group (Sydney Turpentine-Ironbark Forest community)

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 24.04.2007/ additional: 5.07.2007

Image Path:

Image File: P7050893.jpg

Thumb Nail Path:

Thumb Nail File: additional P4240367.jpg – view of Chester Street looking east from near Norfolk Road – remnant tree group (Sydney Turpentine-Ironbark Forest).

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Item Name: Street trees

Location: Chester Street, Epping – Road reserve

Address: Chester Street, Epping – Road Reserve

Suburb/ Nearest Town: Epping NSW 2121

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Sydney Turpentine-Ironbark Forest (STIF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public verge/ private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This group of native trees, of mixed age and floristic structure, are remnant components (canopy trees) of the Sydney Turpentine-Ironbark Forest (STIF) community. This group occurs on transitional shale-derived soils (Wianamatta Group) and Hawkesbury Sandstone and displays some characteristics in common with the Peppermint-Angophora Forest of the lower slopes. Although highly fragmented, the group has significance in terms of its natural, ecological/ biodiversity, genetic, visual, aesthetic and representative values.

Sydney Turpentine-Ironbark Forest (STIF) is scheduled as a critically endangered ecological community under the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* and listed as an endangered ecological community in the NSW *Threatened Species Conservation Act 1995*. This community has been highly fragmented and

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Item Name: Street trees

Location: Chester Street, Epping – Road reserve

modified by clearing and urban development and it is estimated that only 0.5% of the original area of STIF still exists as scattered remnant groups (NSW Scientific Committee 2004).

Some old growth specimens in the group are of individual significance. This group has a broader association with other local critically endangered tree groups (including STIF/ BGHF communities). Refer to listings for Dorset Street, York Street and 5-7 Essex Street, Epping. Notably, Gloucester Road (including public verges and private gardens) conserves an outstanding group of remnant native trees which are currently not included in the HSLEP.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees (STIF community) have been retained/ protected within the public verge and adjoining private gardens. The tree species include the following:-

Common Name(s):

Smooth-barked Apple
Narrow-leaved Apple
Red Bloodwood
Blackbutt
Sydney Peppermint
Red Mahogany
Turpentine

Botanical Name(s):

Angophora costata [co-dominant]
Angophora bakeri subsp. *bakeri*
Corymbia gummifera
Eucalyptus pilularis
Eucalyptus piperita
Eucalyptus resinifera subsp. *resinifera*
Syncarpia glomulifera [co-dominant]

Origin: natural occurrence (STIF remnant)

Extent of Influence: Canopies extend over public verges, private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: av. 18-22 metres; up to 25 metres

Canopy Spread: up to 20-25 metres

Trunk Diameter: up to 900mm @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+/- some old growth specimens up to 100-120 years+

Integrity/ Intactness: The group is highly fragmented and consists of mainly scattered individuals with a major cluster occurring west of York Street, particularly along the southern verge adjacent to Nos.28B, 32, 36-46 and 49 Chester Street and extending to private gardens (Nos.40-46 Chester Street). Other scattered individuals occur along the verges and adjoining private gardens between York Street and Gloucester Street. A further isolated group is located immediately west of Norfolk Road in the large garden of No.24 and No.27A

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Item Name: Street trees

Location: Chester Street, Epping – Road reserve

Chester Street. This group includes a number of old growth specimens (*Eucalyptus pilularis* and *Syncarpia glomulifera*).

Only canopy trees are retained within the group structure [generally no sub-canopy or understorey species are present]. Generic native street tree planting has further compromised integrity of the remnant STIF group. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, tree removals and garden maintenance]. This group is increasingly vulnerable to further fragmentation and attrition and is likely to be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. Some trees display a varying level of insect damage with hollows/ basal cavities, some dead wood in the crowns and epicormic growth.

Recommended Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

HSLEP4 – REVIEW recommends the inclusion of Gloucester Road (including public verges and private gardens) in the HSLEP. Gloucester Road contains an outstanding group of remnant native trees (STIF community) which are more or less contiguous with the groups in Chester Street and Dorset Street. HSLEP4 – REVIEW also recommends including the section of Chester Street (road reserve and adjoining private gardens) immediately west of Norfolk Road in this heritage listing.

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (STIF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

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Item Name: Street trees

Location: Chester Street, Epping – Road reserve

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 26.11.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Dorset Street, Epping – Road reserve

Image/s:



Caption: View of Dorset Street remnant tree group (Sydney Turpentine-Ironbark Forest community) looking west from Gloucester Road.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 24.04.2007/ additional: 24.04.2007 & 5.07.2007

Image Path:

Image File: P4240369.jpg

Thumb Nail Path:

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Item Name: Street trees [Roadside trees]

Location: Dorset Street, Epping – Road reserve

Thumb Nail File: additional P4240365.jpg – view of remnant tree group (Sydney Turpentine-Ironbark Forest) looking east from near York Street; P7050894.jpg – two old growth multi-trunk specimens (*Syncarpia glomulifera*) in front garden of No.24 Dorset Street; P7050895.jpg – group of *Angophora costata* in No.28 Dorset Street; and P7050896.jpg – group of old growth *Eucalyptus pilularis* looking east near No.36 Dorset Street.

Address: Dorset Street, Epping – Road Reserve

Suburb/ Nearest Town: Epping NSW 2121

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Sydney Turpentine-Ironbark Forest (STIF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public verge/ private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This distinctive cluster of native trees, of mixed age and floristic structure, are remnant components (canopy trees) of the Sydney Turpentine-Ironbark Forest (STIF) community. The group is considered to have significance in terms of its natural, ecological/ biodiversity, genetic, visual, aesthetic and representative values. Sydney Turpentine-Ironbark Forest (STIF) is scheduled as a critically endangered ecological community under the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* and listed as

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Item Name: Street trees [Roadside trees]

Location: Dorset Street, Epping – Road reserve

an endangered ecological community in the NSW *Threatened Species Conservation Act 1995*. This community has been highly fragmented and modified by clearing and urban development and it is estimated that only 0.5% of the original area of STIF still exists as scattered remnant groups (NSW Scientific Committee 2004).

The large remnant group is dominated by old growth Blackbutts (*Eucalyptus pilularis*) and a mix of other canopy species including Smooth-barked Apple (*Angophora costata*) and Red Mahogany (*Eucalyptus resinifera*). A number of old growth trees are of individual significance. Together the group creates a memorable sense of place in this suburban streetscape and is evocative of the original bushland character. This group also displays an interesting gradation of structure and floristic composition from deeper shale-derived soils (Wianamatta Group) of the ridge-top to Peppermint-Angophora Forest on the sandstone-influenced slopes (near Gloucester Road).

This group has a broader association with other critically endangered tree groups in the local area further reinforcing the significance of this cluster (refer to similar listings for Chester Street and York Street, Epping). Notably, the Gloucester Road group of native trees has not been included in the HSLEP.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees (STIF community) have been retained/ protected within the public verges (both sides) and adjoining private gardens from No.24 Dorset Street (west of York Street) to Gloucester Road intersection. The tree species include the following:-

Common Name(s):

Smooth-barked Apple
Blackbutt
Red Mahogany
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*
Syncarpia glomulifera

Origin: natural occurrence (STIF remnant)

Extent of Influence: Canopies extend over public verges, private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: av. 16-22 metres; up to 25-30 metres

Canopy Spread: up to 20-25 metres

Trunk Diameter: up to 1200mm @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+/- some old growth specimens up to 120-150 years+

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Item Name: Street trees [Roadside trees]

Location: Dorset Street, Epping – Road reserve

Integrity/ Intactness: Only older canopy trees are retained in group structure [no sub-canopy or understorey species are present]. A major group of remnant trees, including old growth specimens, occurs within the public verges and adjoining private gardens of Nos.24, 28, 37 and 36-46 and 52 Dorset Street (corner of Gloucester Road). The roadway has been narrowed opposite Nos.45 and 46 Dorset Street to accommodate old growth *Eucalyptus pilularis* specimens. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, tree removals and garden maintenance]. This group is increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Notably, Gloucester Road conserves an outstanding group of remnant native trees with major clusters occurring between Nos.7-15, 26-38, 44 and 54-64 Gloucester Road (including both verges and adjoining gardens). A number of old growth specimens occur in this group including two *Angophora costata* and *Eucalyptus racemosa*.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. Some trees display a varying level of insect damage with hollows/ basal cavities (eg. old growth *Angophora costata* in the front garden of No.28 Dorset Street), storm damage and dead wood in the crowns.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

HSLEP4 – REVIEW recommends the inclusion of Gloucester Road (including public verges and private gardens) in the HSLEP. Gloucester Road contains an outstanding group of remnant native trees (STIF community) which are more or less contiguous with groupings in Dorset Street and Chester Street.

Further Comments: Remnant native canopy species (STIF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

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Item Name: Street trees [Roadside trees]

Location: Dorset Street, Epping – Road reserve

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 26.11.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

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Item Name: Roadside trees and bushland

Location: Epping Road, Epping – Road reserve [between Terry's Creek and Pembroke Street]

Image/s:



Caption: View of old growth Sydney Blue Gum (*Eucalyptus saligna*) – remnant Blue Gum High Forest (BGHF) community in Pembroke Street (looking east opposite No.66 Pembroke Street).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 24.04.2007/ additional: 24.04.2007 & 05.07.2007

Image Path:

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Item Name: Roadside trees and bushland

Location: Epping Road, Epping – Road reserve [between Terry's Creek and Pembroke Street]

Image File: P4240375.jpg

Thumb Nail Path:

Thumb Nail File: additional P7050890.jpg – old growth Sydney Blue Gum (*Eucalyptus saligna*) in Pembroke Street (BGHF); P4240376.jpg – view of upper section of drainage reserve/ bushland between Epping Road and Pembroke Street; P7050891.jpg – Peppermint-Angophora Forest community (lower slope) Epping Road; and P7050892.jpg – old growth specimen *Eucalyptus piperita*.

Address: Epping Road, Epping – Road Reserve [between Terry's Creek and Pembroke Street].

Suburb/ Nearest Town: Epping NSW 2121

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Major grouping of remnant native trees and bushland along drainage reserve, road reserves (public verges) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation communities – remnant tree group/ Blue Gum High Forest (BGHF) grading to Peppermint-Angophora Forest along Epping Road.

Category: Trees – street trees [informal groupings]

Owner: Hornsby Shire Council/ private

Current Use: road reserve/ drainage reserve and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This remnant tree group and bushland reserve conserves an intergrade between two ecological communities. This listing includes remnant

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Item Name: Roadside trees and bushland

Location: Epping Road, Epping – Road reserve [between Terry's Creek and Pembroke Street]

components (canopy trees) of the Blue Gum High Forest (BGHF) community on the upper slopes (ie. upper Pembroke Street) and bushland described as Peppermint-Angophora Forest (Smith & Smith 2007) along the drainage reserve (ie. lower slopes adjacent to Epping Road). This bushland was previously described as Sydney Sandstone Gully Forest (Map Unit 10agi) (Benson & Howell 1994.). The group has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. Blue Gum High Forest has a highly restricted geographical distribution and the community has been further fragmented and modified by urban development.

Notably, the group retains a number of old growth specimens of individual significance including Sydney Blue Gums (*Eucalyptus saligna*) in Pembroke Street and Sydney Peppermint (*Eucalyptus piperita*) on the steep lower slopes to Epping Road. Other canopy species include Blackbutt (*E. pilularis*), Smooth-barked Apple (*Angophora costata*) and Turpentine (*Syncarpia glomulifera*). Together the group reinforces a bushland character within this highly urbanised environment. The massive old growth trees create a memorable sense of place and dramatic scale.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated]. Possible associations with O'Donohues Cave(s) were raised in the Hornsby Shire Heritage Study (Perumal Murphy Wu Pty Ltd, 1993). No caves were sighted.

Physical Description: The remnant native trees and bushland have been retained/ protected within the drainage easement, adjoining road reserves (Epping Road and Pembroke Street) and private gardens along Pembroke Street. Canopy species include:-

Common Name(s):

Smooth-barked Apple
Blackbutt
Sydney Peppermint
Sydney Blue Gum
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus pilularis
Eucalyptus piperita
Eucalyptus saligna
Syncarpia glomulifera

Origin: natural occurrence – (BGHF remnant/ Peppermint-Angophora Forest)

Extent of Influence: Canopies extend over drainage easement, adjoining private properties and partially over roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

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Item Name: Roadside trees and bushland

Location: Epping Road, Epping – Road reserve [between Terry's Creek and Pembroke Street]

Height: av. 16-25 metres; up to 35 metres+
Canopy Spread: up to 25 metres
Trunk Diameter: up to 1300mm @ 1.0 metre above ground level
Estimated Age: varies; some old growth specimens up to 100-120 years+

Integrity/ Intactness: Remnant native trees (BGHF community) extend to adjoining private gardens (including Nos.60, 60A and 62 Pembroke Street and Stanley Road). A single old growth Sydney Blue Gum on the road verge (opposite No.66 Pembroke Street) is an exceptional specimen (35 metres+ in height, 25 metres canopy spread and 1300mm DBH).

There is considerable variation in the condition, integrity and resilience of the remnant bushland. The site's history of clearing, disturbance and modification particularly along the Pembroke Street side and along the creek-line, has eliminated a large part of the original native understorey. Much of the western portion of the drainage reserve is highly fragmented and modified with up to 90-100% exotic weed species dominating the understorey (eg. *Ligustrum*, *Lantana*, *Erythrina*, *Cinnamomum*, *Cotoneaster*, *Acer*, *Anredera*, *Ochna*, *Cardiospermum* and *Asparagus* spp.). For many decades natural recruitment of native species has been restricted by the level of exotic weed growth. The site has been culturally embellished with deciduous exotics such as Willows (*Salix* sp.) and Lombardy Poplars (*Populus* sp.). The genetic integrity of this community has been further compromised by past planting of *Eucalyptus saligna* within the bushland. The provenance of this plant stock is unknown.

Notably, the lower and upper gully/ embankment adjoining Epping Road retains a largely intact native canopy and understorey including *Banksia serrata*, *Ceratopetalum gummiferum*, *Elaeocarpus reticulatus*, *Allocasuarina littoralis*, *Callicoma serratifolia*, *Pittosporum undulatum* and *Acacia*, *Grevillea*, *Dodonaea*, *Zieria*, *Lomandra*, *Gahnia* spp. The area is currently under a bush regeneration/ restoration strategy initiated in association with creek channel remedial work.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies [overhead power lines/ canopy alignment]. Some trees in the group display evidence of cavities/ hollows, storm damage, dead branches in canopies and epicormic growth (see above for bushland condition).

Recommended

Management: UPGRADE BGHF LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

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Hornsby Heritage Inventory – Stage 4

Item Name: Roadside trees and bushland

Location: Epping Road, Epping – Road reserve [between Terry's Creek and Pembroke Street]

Continue to implement a coordinated strategy for enhanced natural recruitment/ regeneration and restoration of this natural community. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (BGHF scheduled under TSC Act)
Ecological/ biodiversity values (including faunal habitat)
Aesthetic/ visual significance (major road corridor)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)
Tozer, MG. (2003) *Cunninghamia* 8(4): 1-75

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 26.11.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reserve [street trees]

Location: 5-7 Essex Street, Epping – 'Rockleigh Park'

Image/s:



Caption: View of Rockleigh Park from Rockleigh Way – remnant Blue Gum High Forest (BGHF (community)).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 24.04.2007/ additional: 24.04.2007 & 5.07.2007

Image Path:

Image File: P4240374.jpg

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reserve [street trees]

Location: 5-7 Essex Street, Epping – 'Rockleigh Park'

Thumb Nail Path:

Thumb Nail File: additional P7050897.jpg – Rockleigh Park BGHF group; and P4240373.jpg – Rockleigh Park BGHF group (photo taken from entry to Rockleigh Way).

Address: 5-7 Essex Street [Rockleigh Park] – Public Reserve

Suburb/ Nearest Town: Epping NSW 2121

Other/ Former Names: Garden trees/ 'Rockleigh Gardens' 5-7 Essex Street [Lot 3 DP 847018]

Area/ Group/ Complex: Group of remnant native trees in small public reserve.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Blue Gum High Forest (BGHF)

Category: Trees – park/ street trees [informal group]

Owner: Hornsby Shire Council

Current Use: public reserve

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This small group of native trees are remnant components (canopy trees) of the Blue Gum High Forest (BGHF) community. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. Although modified and managed within the context of a landscaped park, the group has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. The tree species are typical of the mixed canopy structure of this community. Together they

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reserve [street trees]

Location: 5-7 Essex Street, Epping – 'Rockleigh Park'

create a distinctive sense of place and bushland aesthetic to this suburban streetscape and are important components of the BGHF community.

This group has a broader association with other remnant tree groups within this section of Essex Street. Notably, the grounds of Epping Scout Group retain a remnant group of *Angophora costata* including a massive old growth specimen (1300mm DBH). No.1 Essex Street (corner of Chester Street) also retains an important group of native trees (*Eucalyptus resinifera* X 2/ *Syncarpia glomulifera* X 1). These are remnants of the Sydney Turpentine-Ironbark Forest (STIF), a critically endangered ecological community (EPBC Act 1999).

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

The Hornsby Shire Heritage Study (Perumal Murphy Wu Pty Ltd, 1993) identified a number of exotic specimen trees within the grounds of 5-7 Essex Street. This cultural planting was believed to be associated with former gardens dating from the Inter-War period and early Post War period (c.1930s to 1950s). The trees included a mixed row of mature Camphor Laurels/ Hills Weeping Figs, Hoop Pine, Blackbean, Willow, Cypress, Coral Trees and palms. Some of these trees/ palms may have been much older – possibly late nineteenth or early twentieth century. All of these trees/ palms, except for a small Illawarra Flame Tree (*Brachychiton acerifolius*) and Coral Tree (*Erythrina sp.*), appear to have been removed during site development of 'Rockleigh Gardens'.

Physical Description: The group of native trees (BGHF community) has been retained/ protected within this small public park and include the following tree species:-

Common Name(s):

Smooth-barked Apple
White Stringybark
Grey Ironbark
Blackbutt
Red Mahogany
Sydney Blue Gum

Botanical Name(s):

Angophora costata
Eucalyptus globoidea
Eucalyptus paniculata subsp. *paniculata*
Eucalyptus pilularis [dominant]
Eucalyptus resinifera subsp. *resinifera*
Eucalyptus saligna

Origin: natural occurrence (BGHF remnant)

Extent of Influence: Canopies extend over small public reserve, public verge and partially over adjoining private properties, roadway and right-of-way. The root zones are likely to extend to a similar or possibly larger area of influence.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reserve [street trees]
Location: 5-7 Essex Street, Epping – 'Rockleigh Park'

Height: up to 25-30 metres+
Canopy Spread: av. 8-15 metres; up to 25 metres
Trunk Diameter: av. 400mm-700mm (up to 1000mm) @ 1.0 metre above ground level
Estimated Age: av. 50-80 years+/- old growth specimen up to 100-120 years+

Integrity/ Intactness: Only canopy trees are retained in group structure [no native sub-canopy or understorey species are present]. Small trees/ regrowth including Hairy Alectryon (*Alectryon tomentosus*) and immature Rough-barked Apple (*Angophora floribunda*) are believed to have a cultivated origin. Natural recruitment is restricted by current management practices (eg. regular mowing/ pruning, garden maintenance and tree removals). This remnant group is increasingly vulnerable to further fragmentation and attrition. Current management issues need to be properly addressed to ensure long term ecological resilience and durability.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. The trees display a varying level of insect damage, cavities/ hollows and dead wood in the crowns.

Recommended

Management: Amend item name from 'Garden trees' to 'Reserve [street trees]'.

UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

Investigate opportunities for enhanced natural recruitment/ regeneration, particularly along the public road reservation. Seek to enhance connectivity to core BGHF areas. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

HSLEP4 – REVIEW recommends that additional items (including Epping Scout Group and No.1 Essex Street) be included as individual listings or within a broader 'Essex Street group' listing.

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reserve [street trees]

Location: 5-7 Essex Street, Epping – ‘Rockleigh Park’

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 26.11.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: York Street, Epping – Road reserve

Image/s:



Caption: View of York Street remnant tree group (Sydney Turpentine-Ironbark Forest) looking south from near Surrey Street.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 24.04.2007/ additional: 24.04.2007

Image Path:

Image File: P4240370.jpg

Thumb Nail Path:

Thumb Nail File: additional P4240366.jpg – view of remnant tree group (Sydney Turpentine-Ironbark Forest) from near Dorset Street intersection.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]
Location: York Street, Epping – Road reserve

Address: York Street, Epping – Road Reserve

Suburb/ Nearest Town: Epping NSW 2121

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Sydney Turpentine-Ironbark Forest (STIF)

Category: Trees – street trees [informal group]

Owner: Hornsby Shire Council/ private

Current Use: public verge/ private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This small group of native trees, of mixed age and floristic structure, are remnant components (canopy trees) of the Sydney Turpentine-Ironbark Forest (STIF) community. Although highly fragmented and reduced to only scattered remnant canopy species, the group is considered to have significance in terms of its natural, ecological/ biodiversity, genetic, visual, aesthetic and representative values. Sydney Turpentine-Ironbark Forest (STIF) is scheduled as a critically endangered ecological community under the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* and listed as an endangered ecological community in the NSW *Threatened Species Conservation Act 1995*. This community has been highly fragmented and modified by clearing and urban development and it is estimated that only 0.5% of the original area of STIF still exists as scattered remnant groups (NSW Scientific Committee 2004).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: York Street, Epping – Road reserve

Some old growth specimens are of individual significance. This group continues to display an interesting gradation of floristic composition and structure from deeper shale-derived soils (Wianamatta Group) of the ridge (near Dorset Street) to Blackbutt Gully Forest and Peppermint-Angophora Forest on the sandstone-influenced slopes at the northern and southern ends (near Somerset Street and Chester Street respectively). Furthermore, this group has a broader association with other critically endangered tree groups (including STIF/ BGHF communities) in the local area. Refer to listings for Dorset Street, Chester Street and 5-7 Essex Street, Epping.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: These native trees (STIF community) have been retained/ protected within the western public verge and adjoining private gardens between Dorset Street intersection [northern end] and the lower southern end near Chester Street. The tree species include the following:-

Common Name(s):

Smooth-barked Apple
White Stringybark
Blackbutt
Red Mahogany
Turpentine

Botanical Name(s):

Angophora costata [dominant]
Eucalyptus globoidea
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*
Syncarpia glomulifera

Origin: natural occurrence (STIF remnant)

Extent of Influence: Canopies extend over public verges, private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 25 metres

Canopy Spread: up to 10-25 metres

Trunk Diameter: av. 300mm-500mm; up to 1300mm @ 1.0 metre above ground level

Estimated Age: av. 40-80 years+/- some old growth specimens up to 100-120 years+

Integrity/ Intactness: The group is highly fragmented and consists of mainly scattered individuals/ with major clusters occurring south of Chester Street and along the western verge adjacent to Nos.5-9A York Street. Notably, this group retains a native ground stratum – all other examples are restricted to canopy trees only. The verge opposite Nos.38-40 York Street and adjoining gardens of Nos.46 and 53 Surrey Street (York Street frontage) conserve large old growth specimens (including *Angophora costata* and *Eucalyptus resinifera*).

Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, tree removals and garden maintenance]. This group is

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]
Location: York Street, Epping – Road reserve

increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. Some trees display a varying level of insect damage with hollows/ cavities, storm damage and dead wood in the crowns.

Recommended Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native canopy species (STIF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name:	Street trees [Roadside trees]
Location:	York Street, Epping – Road reserve

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 26.11.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: College Crescent, Hornsby – Road reserve [western side opposite Barker Oval]

Image/s:



Caption: View looking south along College Crescent towards remnant native tree group/ Blue Gum High Forest (BGHF) community and mixed row plantation adjacent to the railway corridor and Barker College.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007

Image Path:

Image File: P4110436.jpg

Thumb Nail Path:

Thumb Nail File:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: College Crescent, Hornsby – Road reserve [western side opposite Barker Oval]

Address: College Crescent (west side opposite Barker Oval) – Road Reserve

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Informal grouping of remnant native trees and mixed species row plantation [cultural planting] within road reserve (public verge) and adjoining railway land as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural/ Cultural

Group: Vegetation community – remnant tree group/ Blue Gum High Forest (BGHF); and Parks, Gardens and Trees – exotic/ native planting

Category: Trees – street trees [remnant native group/ mixed row plantation]

Owner: Hornsby Shire Council/ State Rail

Current Use: public verge and adjoining rail corridor

Former Uses:

Assessed Significance: REGIONAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: REGIONAL (GROUP A)/ NOT SIGNIFICANT (GROUP B)
(HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: **Group A:** The road reserve and adjoining railway easement (opposite Barker College Oval) conserve a small and highly fragmented tree group which are remnant components (canopy trees) of the Blue Gum High Forest (BGHF) community. This group has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. This mixed group, retaining only a few scattered individuals, highlights the process of continuing fragmentation and attrition. The group no longer conserves an old growth specimen Sydney Blue

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: College Crescent, Hornsby – Road reserve [western side opposite Barker Oval]

Gum (*Eucalyptus saligna*) with an estimated 1600mm DBH (Perumal Murphy Wu 1993). The site adjoins a recent multi-storey residential development.

Group B: It appears that a mixed row plantation of Brush Box (*Lophostemon confertus*) and Camphor laurel (*Cinnamomum camphora*), including regrowth elements, has been largely removed from this site. The group was believed to be a Post War period plantation. All remaining trees are in poor condition with a history of heavy lopping, soil compaction, dumping and storage of railway materials. Camphor Laurel is an aggressive coloniser of disturbed bushland and is listed as a noxious weed in Hornsby Shire (HSBCS 2006 - Appendix 14). The remaining Camphor Laurel regrowth on this site is competing with remnant BGHF components and restricting natural recruitment. The adjacent railway embankment is under a current bush restoration/ planting program. This group is not considered to have significance.

Historical Notes or

Provenance: Mixed plantation believed to have been planted c.1950s to 1960s (Perumal Murphy Wu Pty Ltd, 1993). The original recommendation for 'regional significance' of this listing and scheduling accordingly in the HSLEP appears to be based on the presence of an old growth Sydney Blue Gum (*Eucalyptus saligna*) [22 metres in height/ 1600mm DBH]. The tree no longer exists however other remnant BGHF components are still present. An inventory note stated that the 'area around base of these trees need protection from parking cars with railing' (HSHS 1993). Soils around these BGHF trees remain highly compacted and exposed. Cars continue to park with no restriction and the railway land is used for dumping/ storage of materials.

Physical Description: **Group A (only):** Remnant native trees/ bushland (BGHF community) have been retained/ protected within the public verge and adjoining rail corridor. Native canopy species include the following:-

Common Name(s):

Red Mahogany
Sydney Blue Gum
Turpentine

Botanical Name(s):

Eucalyptus resinifera subsp. *resinifera*
Eucalyptus saligna
Syncarpia glomulifera

Origin: natural occurrence (BGHF remnant)

Extent of Influence: Canopies extend over the public verge, railway land and partially over roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: 10-25 metres

Canopy Spread: 10-20 metres

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: College Crescent, Hornsby – Road reserve [western side opposite Barker Oval]

Trunk Diameter: 500mm-800mm @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+

Integrity/ Intactness: Only canopy trees are retained in group structure [ie. no sub-canopy or understorey species are present]. Natural recruitment is restricted by current management practices [eg. unrestricted car parking/ soil compaction, dumping/ materials storage, weed competition and tree removals]. This remnant group is vulnerable to further fragmentation and attrition and is likely to be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. Trees display a varying level of insect damage, some with cavities and dead wood in the crowns.

Recommended

Management: GROUP A: UPGRADE LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF NATIONAL AND STATE SIGNIFICANCE.

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

GROUP B: REMOVE ITEM (MIXED PLANTATION) LISTING IN HSLEP (ie. Brush Box and Camphor Laurels).

Further Comments: Remnant native canopy species (BGHF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: College Crescent, Hornsby – Road reserve [western side opposite Barker Oval]

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)
Tozer, MG. (2003) *Cunninghamia* 8(4): 1-75

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 6.11.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Dural Street, Hornsby – Road reserve

Image/s:



Caption: View of Dural Street looking east from Lisgar Road – remnant native tree group/ Blackbutt Gully Forest dominated by Blackbutt (*Eucalyptus pilularis*) [left/ background].

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007/ additional: 11.04.2007

Image Path:

Image File: P4110443.jpg

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Dural Street, Hornsby – Road reserve

Thumb Nail Path:

Thumb Nail File: additional P4110444.jpg – view of remnant tree group (Blackbutt Gully Forest) Smooth-barked Apples (*Angophora costata*) in embankment east end of Dural Street (looking east); and P4110445.jpg – west end of Dural Street (looking east) Blackbutt (*Eucalyptus pilularis*) and Turpentine (*Syncarpia glomulifera*).

Address: Dural Street, Hornsby – Road Reserve

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Blackbutt Gully Forest

Category: Trees – street trees [remnant native group]

Owner: Hornsby Shire Council/ private

Current Use: public verges and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: Dural Street traverses the steep upper ridgeline overlooking Old Mans Valley and Hornsby Park (immediately to the north). The public verge and adjoining gardens of the ridge and adjoining steep slopes retain remnant components (canopy, sub-canopy and understorey species) of Blackbutt Gully Forest. Although common in the Hornsby Shire, this community is poorly conserved outside the local area. Blackbutt Gully Forest is considered to be of local significance in Hornsby Shire (Smith & Smith 2007 and HSBSCS 2006). This

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Dural Street, Hornsby – Road reserve

group has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. The group is dominated by a number of massive old growth Blackbutt (*Eucalyptus pilularis*) and a mix of other species including Smooth-barked Apple (*Angophora costata*) and Turpentine (*Syncarpia glomulifera*). The group retains much of the original bushland character along this ridgetop and is more or less contiguous with the remnant tree group in Rosemead Road (see listing).

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: This native tree group has been retained/ protected within the public verges and adjoining private gardens along Dural Street. Native canopy species include the following:-

Common Name(s):

Smooth-barked Apple
Blackbutt
Red Mahogany
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*
Syncarpia glomulifera

Origin: natural occurrence (Blackbutt Gully Forest)

Extent of Influence: Canopies extend over public verge, private properties and partially over roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 18-25 metres

Canopy Spread: up to 10-25 metres

Trunk Diameter: varies; up to 1000mm @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+/- some old growth specimens up to 100-120 years+

Integrity/ Intactness: Old growth specimens are retained in the group structure [canopy, sub-canopy and some understorey species are present]. Natural recruitment however is restricted by current management practices [eg. regular mowing/ pruning, tree removals and general garden maintenance]. This remnant group is increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. The trees display a varying level of insect damage, some with cavities/ hollows and dead wood in the crowns.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Dural Street, Hornsby – Road reserve

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native community of local significance
Ecological/ biodiversity values (including faunal habitat)
Early historic/ cultural associations
Aesthetic/ visual significance (natural vegetation on ridgeline/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments (old growth specimens).

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire 2007
Native Vegetation of the Cumberland Plain DE&CC (NSW) 2002
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 20.04.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number: 1780652

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Edgeworth David Avenue, Hornsby – Road reserve

Image/s:



Caption: View looking east along Edgeworth David Avenue to tree group (remnant Blue Gum High Forest) near Churchill Avenue [Wahroonga].

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007/ additional 13.04.2007

Image Path:

Image File: P4130551.jpg

Thumb Nail Path:

Thumb Nail File: additional P4130550.jpg looking west along Edgeworth David Avenue towards tree group near Woonona Avenue [Wahroonga]; P4130552.jpg

Hornsby Heritage Inventory

SHI Number: 1780652

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Edgeworth David Avenue, Hornsby – Road reserve

looking west near Balmoral Street – avenue of Brush Box (*Lophostemon confertus*) [Waitara]; and P4110437.jpg Brush Box row adjacent to Hornsby Girls High School [Hornsby].

Address: Edgeworth David Avenue – Road Reserve (Hornsby – Waitara – Wahroonga)

Suburb/ Nearest Town: Hornsby NSW 2077; Waitara NSW 2077; Wahroonga NSW 2076

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Group of remnant native trees and avenue/ row plantation (cultural planting) in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural/ Cultural

Group: Vegetation community – remnant tree group/ Blue Gum High Forest (BGHF); and Parks, Gardens and Trees – native planting

Category: Trees – street trees [remnant native group/ formal avenue/ row plantation]

Owner: Hornsby Shire Council/ private

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: **REGIONAL** (GROUP A)/ **LOCAL** (GROUP B)
(HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: **Group A:** This small group of native trees located between Newcastle Expressway and Myra Street are remnant components (canopy trees) of the Blue Gum High Forest (BGHF) community. Blue Gum High Forest in the Sydney Basin Bioregion (BGHF) is listed as a critically endangered ecological community in the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and NSW *Threatened Species Conservation Act 1995*. This community has a highly restricted geographic distribution and is typically associated with soils derived from Wianamatta Shale (Tozer 2003). Blue Gum High Forest has been highly fragmented and modified by urban development, particularly small-scale clearing and alterations associated with residential subdivision, roads and service easement upgrades.

Hornsby Heritage Inventory

SHI Number: 1780652

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Edgeworth David Avenue, Hornsby – Road reserve

This group has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. Old growth specimens in the group are of individual significance. Together the trees create a memorable sense of place in this suburban streetscape and are evocative of the original bushland character. This BGHF group is contiguous with the Woonona Avenue northern group (see listing) and has a broader association with other remnant tree groups in the local area further reinforcing the significance of this cluster (refer to similar listings for Bundarra Avenue and Fern Avenue, Wahroonga).

Group B: The formal single species avenue/ row plantation of Brush Box (*Lophostemon confertus*) located between the Pacific Highway and Myra Street is believed to date from the mid- to late Post War period (c.1950s-1960s). This plantation has local group significance in terms of its historic, cultural visual/ aesthetic and representative values. This species has been used extensively in street tree planting schemes throughout Sydney since the early twentieth century. Brush Box has been used in local planting programs associated with new subdivisions, the rail corridor and railway stations since the Post War period (refer to listings).

Historical Notes or

Provenance: This listing includes items of natural occurrence [ie. not cultivated] and a cultural overlay of exotic planting [avenue and row plantation] dating from the Post War period. The NSW Heritage Office data base lists the presence of 'Blackbutt, Smooth-barked Angophora, Sydney peppermint and Bluegums to 23m high' in the remnant native tree group. Assuming the HSHS (1993) description was accurate, Sydney Blue Gums (*Eucalyptus saligna*) are no longer present in this group.

Physical Description: **Group A:** Remnant native trees (BGHF) have been retained/ protected within the road reserve (public verge – northern side) and adjoining private gardens between the Newcastle Expressway and Myra Street. The roadway has been locally narrowed with the inclusion of parking bays to accommodate old growth specimens in the road reserve. Group canopy species include:-

Common Name(s):

Smooth-barked Apple
Blackbutt
Red Mahogany

Botanical Name(s):

Angophora costata
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*

Group B: The Brush Box (*Lophostemon confertus*) avenue/ row plantation is fragmented into two main groups. The western group (approx. 27 No.) is located between Hornsby Girls High School and Sherbrook Road (near

Hornsby Heritage Inventory

SHI Number: 1780652

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Edgeworth David Avenue, Hornsby – Road reserve

Willow Park). The smaller eastern group extends from Park Avenue to Myra Street (approx. 17 No.). This group retains a small avenue of trees (west of Balmoral Street), albeit heavily lopped along the northern verge.

Origin: **Group A:** natural occurrence; and

Group B: ornamental/ cultivated (*L. confertus* – NSW north coast and Qld.).

Extent of Influence: **Groups A and B:** Canopies extend over the public verge and partially over adjoining private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: **Group A:** 16-25 metres; **Group B:** 12-14 metres; 6-7 metres [lopped]

Canopy Spread: **Group A:** 12-25 metres; **Group B:** 6-10 metres

Trunk Diameter: **Group A:** 500mm-1300mm @ 1.0 metre above ground level

Group B: 300mm-800mm @ 1.0 metre above ground level

Estimated Age: **Group A:** varies/ old growth specimens up to 120-150 years+

Group B: 50-60 years+

Integrity/ Intactness: **Group A:** Only older canopy trees are retained within the group structure [ie. no sub-canopy or understorey species are present]. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, tree removals and garden maintenance]. This group is increasingly vulnerable to further fragmentation and attrition and is likely to be lost altogether over time unless these management issues are properly addressed.

Group B: Integrity of avenue/ row plantation is compromised by the level of tree removals, replacement/ infill planting with other species and heavy pruning (pollarding) of canopies under overhead power-lines. Supplementary planting of *Jacaranda* sp. and smaller growing exotics such as *Prunus* sp. have further reduced overall integrity and cohesiveness.

Condition/ Health: **Group A:** Most trees appear to be in fair to good condition with minimal pruning to canopies. Trees display a varying level of insect damage, cavities/ hollows and dead branches in the crowns. *Eucalyptus resinifera* in small roadway planter is in serious decline with extensive parasitic growth (Mistletoe sp.) in the branches.

Group B: Most trees appear to be in fair to good condition, typical of this species, age group/ structure with extensive pruning/ alignment to canopies for overhead power lines [northern verge].

Recommended

Management: GROUP A: UPGRADE LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

Hornsby Heritage Inventory

SHI Number: 1780652

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Edgeworth David Avenue, Hornsby – Road reserve

Investigate opportunities for enhanced natural recruitment/ regeneration of this endangered ecological community. Identify potential seed sources for propagation and future restoration programs. Investigate options for improving soil conditions around bases of remnant trees in road reserve (sealed road).

GROUP B: RETAIN LOCAL HERITAGE LISTING IN HSLEP (ie. Brush Box). For further detailed assessment of health, condition and tree management recommendations (Groups A and B), a qualified arborist should be consulted.

Further Comments: Blue Gum High Forest (BGHF) scheduled under EPBC & TSC Acts
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: State Heritage Inventory Data Base Number: 1780652
Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993).

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

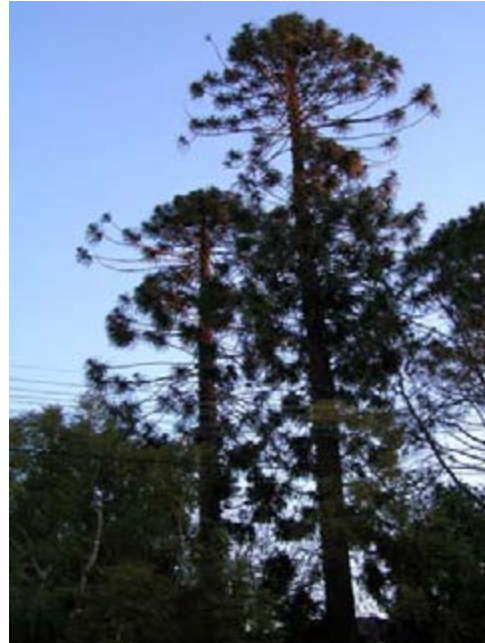
SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Garden trees

Location: 19C Ethel Street, Hornsby [Lot 11 DP 853365]

Image/s:



Caption: View of 19C Ethel Street – group of two native Bunya Pines (*Araucaria bidwillii*) [background] and Maritime Pine (*Pinus pinaster*) [foreground].

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 18.07.2007/ additional: 18.07.2007

Image Path:

Image File: P7181032.jpg

Thumb Nail Path:

Thumb Nail File: additional P7181031.jpg – two native Bunya Pines (*Araucaria bidwillii*).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Garden trees

Location: 19C Ethel Street, Hornsby [Lot 11 DP 853365]

Address: 19C Ethel Street, Hornsby [Lot 11 DP 853365]

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: 32 Galston Road

Area/ Group/ Complex: Group of mixed pines in private garden as scheduled.

Aboriginal Area:

Curtilage/ Boundary: Lot 11 DP 853365

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – mixed planting

Category: Specimen trees – private garden

Owner: private

Current Use: private garden

Former Uses: n/a

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This cluster of two Bunya Pines (*Araucaria bidwillii*) and a Maritime Pine (*Pinus pinaster*) are prominently located along the Galston Road frontage in the small garden of 19C Ethel Street. Notably, Bunya Pines of a similar age group, are located in the wide verge opposite this group on Galston Road (2 No. specimens) and further specimen is located near 10A Ethel Street. Old Monterey Pines (*Pinus radiata*) also occur in neighbouring gardens. These cultivated pines are believed to be the remnants of a much larger garden dating from the late nineteenth century (prior to the existing subdivision). This group is considered to have local significance in terms of its historic/ cultural associations, visual, aesthetic, landmark and representative values. They are important contextual elements of considerable scale and integrity. Although planted in large private gardens and public planting schemes throughout Sydney since the early nineteenth century, older specimen Bunya Pines are now somewhat rare in the Hornsby Shire.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Garden trees

Location: 19C Ethel Street, Hornsby [Lot 11 DP 853365]

Similarly, the Maritime Pine is an uncommon cultivated species in the local area. The Camphor Laurel (*Cinnamomum camphora*), located in this garden, has been heavily pruned for development of the new residence and is not considered to have local significance. Furthermore, Camphor Laurel is an aggressive coloniser of disturbed bushland and is listed as a noxious weed in Hornsby Shire (HSBCS 2006 - Appendix 14).

Historical Notes or

Provenance: This group of pines are believed to have been planted during the Victorian period c.1900 (HSHS Perumal Murphy Wu Pty Ltd, 1993). The smaller pine is believed to be a Maritime Pine (*Pinus pinaster*) rather than a 'Stone Pine'.

The Bunya Pines have been the subject of a request to Council for removal from heritage listing/ removal of Bunya Pines (Phillipson. R & D., Council corro., 15/02/2006). Property was recently sold in mid-2007. The property is a later subdivision from the larger house facing Galston Road (Patrick O'Carrigan + Partners 2007).

Physical Description: These native and exotic pines are located within the small western garden of 19C Ethel Street (Galston Road frontage). Following subdivision, a new house was built adjacent to the two Bunya Pines. The group includes the following species:-

Common Name(s):

Bunya Pine

Maritime Pine

Botanical Name(s):

Araucaria bidwillii [2 No.]

Pinus pinaster [1 No.]

Origin: Ornamental/ cultivated (*A. bidwillii* – south-east Qld; *P. pinaster* – North Africa to south-western Europe).

Extent of Influence: Canopies extend over this property and partially over street verge. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: *A. bidwillii* – 18-24 metres; *P. pinaster* – 15 metres

Canopy Spread: *A. bidwillii* – 9-10 metres; *P. pinaster* – 10 metres

Trunk Diameter: *A. bidwillii* – 1000mm-1200mm @ 1.0 metre above ground level

P. pinaster – 500mm @ 1.0 metre above ground level

Estimated Age: 100-110 years+

Integrity/ Intactness: The group of pines retain considerable scale and integrity.

Condition/ Health: The Bunya Pines appear to be in good condition and health with relatively dense crowns and minimal dead wood. One specimen Bunya Pine has a damaged upper crown (possibly storm damage) with dense apical growth and

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Garden trees

Location: 19C Ethel Street, Hornsby [Lot 11 DP 853365]

renewed vigour. The Maritime Pine has a thinning canopy and some dead wood in the lower crown.

Recommended

Management:

RETAIN LOCAL HERITAGE LISTING IN HSLEP.

HSLEP4 – REVIEW recommends that three additional Bunya Pines (ie. 2 No. on opposite verge Galston Road and 1 No. adjacent to 10A Ethel Street) be included within a broader group listing. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Further investigate significance of adjacent unusual house of neo-Georgian style with symmetrical façade, porthole openings to central porch, high central hipped roof and rear wing extending to Ethel Street (Patrick O’Carrigan + Partners 2007).

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References: Request Removal of Item – Phillipson. R & D., Council corro., 15/02/2006).
PLN204/ 06 Stage 3: Review of Items 5/07/06.
Patrick O’Carrigan + Partners HSLEP4 – REVIEW (2007)
LandArc Pty Limited, Register of Significant Trees for City of Sydney (2005)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 12.08.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Hunter Street, Hornsby – Road reserve

RECOMMENDATION: REMOVE FROM HERITAGE LISTING

Image/s:



Caption: View of Brush Box (*Lophostemon confertus*) row plantation looking north from near Burdett Street.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007/ additional: 11.04.2007

Image Path:

Image File: P4110440.jpg

Thumb Nail Path:

Thumb Nail File: additional P4110439.jpg – view of Brush Box avenue looking north near Linda Street.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Hunter Street, Hornsby – Road reserve

Address: Hunter Street, Hornsby – Road reserve

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Formal single species row/ avenue plantation (cultural planting) on public verge as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – generic native planting

Category: Trees – street trees [formal row/ avenue plantation]

Owner: Hornsby Shire Council

Current Use: road reserve/ public verge

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: NOT SIGNIFICANT (HSLEP-4 REVIEW LandArc 2007)

The Hunter Street avenue/ row plantation of Brush Box (*Lophostemon confertus*) is highly compromised and fragmented. Large structural gaps exist in the plantation with the use of many different replacement species affecting overall integrity and cohesiveness. All trees along the eastern verge have a history of heavy pruning and display poor/ unbalanced crown development under overhead power-lines. Notably, the section between Burdett Street and Linda Street presents a small but contiguous row plantation. Although the Brush Box group contributes to the aesthetic character and amenity of the streetscape it is not considered to have local significance.

Historical Notes or

Provenance: Brush Box avenue is believed to have been planted c.1960 (HSHS Perumal Murphy Wu Pty Ltd, 1993). The HSHS also highlighted generic native planting (including semi-mature Blue Gum and Tallowwood) in the streetscape. This 1970s period planting is not considered to have local significance.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Hunter Street, Hornsby – Road reserve

Physical Description: The avenue/ row plantation is comprised of the following species:-

Common Name(s):

Brush Box

Botanical Name(s):

Lophostemon confertus

Origin: cultivated native of the NSW north coast and Qld.

Extent of Influence: Canopies extend over public verge and partially over adjoining private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 9-12 metres

Canopy Spread: 6-8 metres

Trunk Diameter: 250mm-400mm @ 1.0 metre above ground level

Estimated Age: up to 40-50 years+

Integrity/ Intactness:

Condition/ Health: Most trees appear to be in fair to good condition, typical of this species, age group/ structure with extensive pruning/ alignment to canopies for overhead power lines [eastern verge].

Recommended

Management: REMOVE ITEM (STREET TREES) LISTING IN HSLEP.

For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

References:

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 10.12.1992].

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Jersey Street, Hornsby – Road reserve (east side)

Image/s:



Caption: View of Brush Box (*Lophostemon confertus*) row plantation looking south (adjacent to railway land).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007

Image Path:

Image File: P4110441.jpg

Thumb Nail Path:

Thumb Nail File:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Jersey Street, Hornsby – Road reserve (east side)

Address: Jersey Street, Hornsby – Road reserve (east side)

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Formal single species row plantation (cultural planting) in road reserve as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – generic native planting

Category: Trees – street trees [formal row plantation]

Owner: Hornsby Shire Council

Current Use: public road reserve

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: The formal row plantation of Brush Box (*Lophostemon confertus*) has local significance in terms of its historic/ cultural associations, visual, aesthetic and representative values. The contiguous single species plantation retains a high level of formality with a history of heavy pruning (pollarding). Most of the trees in the group are believed to date from the mid-Post War period (c.1950s). This plantation is typical of many other local planting programs associated with upgrades and embellishment of the rail corridor and railway stations since the Post War period (ie. at least two decades after electrification of the North Shore Railway Line in 1928). Brush Box has been used extensively in street tree plantations throughout Sydney since the early twentieth century.

Historical Notes or

Provenance: Brush Box plantation is believed to have been planted during the 1950s (Perumal Murphy Wu Pty Ltd, 1993). The group character was described as

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Jersey Street, Hornsby – Road reserve (east side)

"of fine form" with a general canopy height of 17 metres. Most of the plantation is currently under a regime of heavy pruning (7-8 metres in height).

Physical Description: The row plantation is located along the eastern verge and within small grassed islands in the road pavement (car parking area) adjacent to the railway line. The group is comprised of the following species:-

Common Name(s):

Brush Box

Botanical Name(s):

Lophostemon confertus [27 No.]

Origin: cultivated native of the NSW north coast and Qld.

Extent of Influence: Canopies extend partially over the roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 10-12 metres; 7-8 metres [lopped]

Canopy Spread: 4-10 metres

Trunk Diameter: 300mm-500mm @ 1.0 metre above ground level

Estimated Age: 50-60 years+

Integrity/ Intactness: Although overhead power-lines are set high along this eastern verge adjacent to the railway corridor most of the trees are still subject to heavy canopy pruning (pollarding). Crown development, massing and scale typical of this species have been highly restricted by this program however the row retains a high level of formality, integrity and cohesiveness.

Condition/ Health: Most trees appear to be in fair to good condition, typical of this species, age group/ structure with extensive pruning to canopies. Some trees display multiple trunk (lignotuber) regrowth possibly due to stress, exacerbated by prolonged drought conditions.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP

Investigate current level/ extent of pruning (State Rail). For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Historic/ cultural associations with urban development
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Jersey Street, Hornsby – Road reserve (east side)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References:

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 10.12.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Manor Road, Hornsby – Road reserve

Image/s:



Caption: View looking north-east near No.35 Manor Road – remnant native tree group (Blackbutt Gully Forest) showing mature Blackbutt (*Eucalyptus pilularis*), Smooth-barked Apple (*Angophora costata*) and other mixed canopy species.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007/ additional: 11.04.2007

Image Path:

Image File: P4110455.jpg

Thumb Nail Path:

Thumb Nail File: additional P4110454.jpg – view of remnant native tree group (Blackbutt Gully Forest) looking north-east near No.63 Manor Road.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]
Location: Manor Road, Hornsby – Road reserve

Address: Manor Road, Hornsby – Road Reserve

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural

Group: Vegetation community – remnant tree group/ Blackbutt Gully Forest

Category: Trees – street trees [remnant native group]

Owner: Hornsby Shire Council/ private

Current Use: public verges and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: The tall native trees along Manor Road form an integral part of the local visual catchment along this prominent ridgeline. The group is dominated by Blackbutt (*Eucalyptus pilularis*), Smooth-barked Apple (*Angophora costata*) and Turpentine (*Syncarpia glomulifera*). These remnant components (including canopy, sub-canopy and understorey species) are typical of the Blackbutt Gully Forest community. Although common within the Hornsby Shire, this community is poorly conserved outside the local area. Blackbutt Gully Forest is considered to be of local significance in Hornsby Shire (Smith & Smith 2007 and HSBCS 2006). This community has previously been described as Western Sandstone Gully Forest (DE&CC 2002) and Sydney Sandstone Gully Forest (Map Unit 10agii) (Benson & Howell 1994).

The Manor Road group has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. Manor

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Manor Road, Hornsby – Road reserve

Road traverses the steep ridgeline overlooking Old Mans Valley (to the south) and this remnant community makes an important visual and aesthetic contribution to the natural bushland character of this area.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated]. The grounds of Mount Wilga House (completed in 1913) adjoin Manor Road. The gardens conserve significant historic and cultural planting including a mature Bunya Pine (*Araucaria bidwillii*), Monterey Pine (*Pinus radiata*), Port Jackson Fig (*Ficus rubiginosa*) and many other elements dating from the late Federation period. A boundary row of Brush Box (*Lophostemon confertus*) may date from the 1950s period (NSW Heritage Office, 'Mount Wilga House').

Physical Description: This native tree group has been retained/ protected within the public verges and adjoining private gardens along Manor Road. Native canopy species include the following:-

Common Name(s):

Smooth-barked Apple
Blackbutt
Red Mahogany
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus pilularis
Eucalyptus resinifera subsp. *resinifera*
Syncarpia glomulifera

Origin: natural occurrence (Blackbutt Gully Forest)

Extent of Influence: Canopies extend over public verge, private properties and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 25-30 metres

Canopy Spread: up to 20-25 metres

Trunk Diameter: varies; up to 1000mm @ 1.0 metre above ground level

Estimated Age: av. 50-80 years+/- some old growth specimens up to 100-120 years+

Integrity/ Intactness: Old growth specimens are retained in the group structure [canopy, sub-canopy and some understorey species are present]. Natural recruitment is restricted by current management practices [eg. regular mowing/ pruning, tree removals and garden maintenance]. This remnant group is increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. The trees display a varying level of insect damage, some with cavities/ hollows and dead wood in the crowns.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Manor Road, Hornsby – Road reserve

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native community of local significance
Ecological/ biodiversity values (including faunal habitat)
Early historic/ cultural associations
Aesthetic/ visual significance (natural vegetation on ridgeline/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g) Item is important in demonstrating the principal characteristics of a class of natural places or natural environments (old growth specimens).

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire 2007
Native Vegetation of the Cumberland Plain DE&CC (NSW) 2002
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)
NSW Heritage Office – State Heritage Register 'Mount Wilga House' 2006

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 20.04.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Palmerston Road, Hornsby – Road reserve

Image/s:



Caption: View of Brush Box (*Lophostemon confertus*) avenue plantation looking north (photo taken from southern end of Palmerston Road).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 18.07.2007/ additional: 18.07.2007

Image Path:

Image File: P7181029.jpg

Thumb Nail Path:

Thumb Nail File: additional P7181030.jpg – view of Brush Box avenue looking south (opposite old Hospital Building).

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Palmerston Road, Hornsby – Road reserve

Address: Palmerston Road, Hornsby – Road Reserve

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Formal single species avenue plantation (cultural planting) on public verge and roadway as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees – generic native planting

Category: Trees – street trees [formal avenue plantation]

Owner: Hornsby Shire Council

Current Use: road reserve/ public verge

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: The formal Brush Box (*Lophostemon confertus*) plantation along Palmerston Road (opposite Hornsby Ku-ring-gai Hospital) is significant in terms of its historic/ cultural associations, visual, aesthetic and representative values. The avenue is believed to date from the late Inter-War or early Post War period (c.1930s-1940s). Hornsby Hospital was opened in 1933. The layout of the avenue along the eastern public verge (adjacent to the footpath) and within the road pavement (western side) is unusual. The use of native Brush Box as an avenue tree is consistent with the local thematic approach (see listings for Myra Street, Ingram Road, Edgeworth David Avenue and Jersey Street). Notably, the original design intent of a single species avenue has been retained. Although the trees have a history of heavy pruning (pollarding), the group presents a more or less contiguous canopy which interlocks over the roadway. The avenue maintains overall integrity, balance and continuity.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Palmerston Road, Hornsby – Road reserve

The Brush Box row plantation north of Northcote Road intersection (eastern verge) is a later addition (possibly 1960s-1970s period). Whilst consistent with the species selection and formal layout of the main avenue group, this row plantation is not considered to have local significance.

Historical Notes or

Provenance: The Palmerston Road Brush Box avenue was the subject of a request to Council for heritage listing (Hopwood. J. and Heritage Committee 2005)

Physical Description: The avenue plantation is located along Palmerston Road (opposite the Hornsby Ku-ring-gai Hospital). The avenue is comprised of the following species:-

Common Name(s):

Brush Box

Botanical Name(s):

Lophostemon confertus [20 No.]

Origin: cultivated native of the NSW north coast and Qld.

Extent of Influence: Canopies extend over public verges and roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: 8-12 metres

Canopy Spread: 6-8 metres

Trunk Diameter: av. 400mm-600mm @ 1.0 metre above ground level

Estimated Age: 60-70 years+

Integrity/ Intactness: The trees display a history of heavy pruning (pollarding). The introduction of aerial bundling of overhead power lines (along eastern verge) has reduced the level of pruning allowing greater crown development. Replacement and infill planting is minimal. Some trees display buttressing around bases.

Condition/ Health: Most trees appear to be in fair to good condition. Some trees, particularly in the road pavement, appear stressed with thinning canopies, some dead wood in the crowns and large quantities of seed, possibly due to the prolonged drought. Trees in road pavement appear to have been originally planted in pits. At some stage these pits have been paved over with an asphalt topping to the bases of trees.

Recommended

Management: ADD LOCAL HERITAGE LISTING IN HSLEP

Re-establish tree pits in roadway (ie. remove asphalt topping around bases of trees and install selected mulch). For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees

Location: Palmerston Road, Hornsby – Road reserve

Further Comments: Historic/ cultural associations with urban development
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

References: Requests for Listing of New Items – File Ref: D00325734 HAC Minutes/ corro.
between J. Hopwood MP and Heritage Committee 05/12/2005).

Studies:

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reddy Park – bushland reserve

Location: Pretoria Street, Hornsby – Public reserve

Image/s:



Caption: View of Reddy Park and playground – remnant native tree group/ Sydney Turpentine-ironbark Forest (photo taken from Pretoria Street).

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007/ additional: 25.07.2007

Image Path:

Image File: P4110453.jpg

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reddy Park – bushland reserve

Location: Pretoria Street, Hornsby – Public reserve

Thumb Nail Path:

Thumb Nail File: additional P7251049.jpg – view of remnant Sydney Turpentine-Ironbark Forest (central forest area with largely cleared/ modified understorey); and P7251050.jpg – view of STIF community with understorey (lower south-eastern portion of reserve).

Address: Reddy Park, Pretoria Street, Hornsby – bushland reserve

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Road Reserve/ Street Trees

Area/ Group/ Complex: Remnant Sydney Turpentine-Ironbark Forest - critically endangered ecological community located in public reserve as scheduled.

Aboriginal Area:

Curtilage/ Boundary: Reddy Park

Item Type: Landscape – Natural

Group: Vegetation community – Sydney Turpentine-Ironbark Forest (STIF).

Category:

Owner: Hornsby Shire Council

Current Use: public reserve

Former Uses:

Assessed Significance: REGIONAL (HSHS Perumal Murphy Wu 1993)/
LOCAL (HSLEP 1994)

Endorsed Significance: REGIONAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: Reddy Park conserves one of the largest contiguous remnant stands of Sydney Turpentine-Ironbark Forest (STIF) in the Hornsby Shire. Sydney Turpentine-Ironbark Forest (STIF) is scheduled as a critically endangered ecological community in the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* and listed as an endangered ecological community in the NSW *Threatened Species Conservation Act 1995*. This

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reddy Park – bushland reserve

Location: Pretoria Street, Hornsby – Public reserve

community has a highly restricted geographical distribution within the County of Cumberland. Sydney Turpentine-Ironbark Forest (STIF) has been highly fragmented and modified by clearing and urban development. It is estimated that there is only 0.5% of the original area of this community remaining in the Sydney Basin Bioregion, usually occurring only as scattered remnants (NSW Scientific Committee 2004).

This group in Reddy Park is significant in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. Notably, this contiguous stand covers an area of 3.1 hectares (Ha), albeit modified and fragmented to varying degrees and surrounded by roads and residential development. The western portion of the park, containing a scout hall and playground, conserves some exceptional old growth trees of individual significance. There is no standing native understorey (ie. mown grass) in this portion of the park whereas the densely forested central and south-eastern portions retain a diverse understorey and ground stratum.

The diverse range of tree species in Reddy Park is typical of the mixed 'stringybarks, mahoganies and ironbarks' which dominate much of the canopy structure of this community. The group's density of trunks, mixed canopy cover and scale define a distinctive sense of place and bushland aesthetic to this suburban park.

Historical Notes or

Provenance: All items of natural occurrence [ie. not cultivated].

Physical Description: This remnant STIF community has been retained/ protected within this public reserve bounded by Pretoria Street, Werna Place, Truran Close and adjoining residential properties. The native canopy species include the following:-

Common Name(s):

White Stringybark

Blackbutt

Red Mahogany

Turpentine

Botanical Name(s):

Eucalyptus globoidea

Eucalyptus pilularis

Eucalyptus resinifera subsp. *resinifera*

Syncarpia glomulifera [dominant]

Origin: natural occurrence (STIF community)

Extent of Influence: Canopies extend over public reserve and partially over adjoining street verges, roads and adjoining private properties. The root zones are likely to extend to a similar area of influence.

Height: av. 16-22 metres; up to 22-25 metres

Canopy Spread: av. 10-15 metres; up to 30 metres

Trunk Diameter: av. 200mm-500mm (up to 1400mm) @ 1.0 metre above ground level

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reddy Park – bushland reserve

Location: Pretoria Street, Hornsby – Public reserve

Estimated Age: av. 40-60 years+/- some old growth specimens up to 120-150 years+

Integrity/ Intactness: A contiguous native canopy is retained across the park. Notably, the middle and south-eastern portions of the park retain a diverse understorey and ground stratum including *Allocasuarina*, *Acacia*, *Notelaea*, *Leucopogon*, *Platylobium*, *Eustrephus*, *Clematis*, *Glycine*, *Themeda*, *Imperata*, *Dianella* and *Lomandra* spp. This species list is indicative only. In the western portion, adjoining Pretoria Street, only canopy trees are retained within the group structure [ie. no sub-canopy or understorey species present]. Nevertheless, this area retains a number of old growth specimens (eg. *Eucalyptus pilularis* – 1400mm DBH near Pretoria Street). This STIF community is surrounded by residential development and remains vulnerable to further fragmentation and attrition. Natural recruitment is restricted by current management practices [eg. regular mowing/ edging for recreational uses] and ongoing environmental impacts [eg. drainage alterations, soil modification, nutrient enrichment, multiple tracking, trampling, weed invasion and fire exclusion/ reduced fuel strategies]. Notably, most of the park is under a bush regeneration program. Current management issues need to be properly addressed to ensure long term ecological resilience and durability.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. The trees display a varying level of insect damage, some with basal cavities/ hollows and dead wood in the crowns.

Recommended

Management: UPGRADE THIS ITEM LISTING IN HSLEP TO **REGIONAL SIGNIFICANCE**. THIS ITEM IS A VITAL COMPONENT OF A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY OF **NATIONAL AND STATE SIGNIFICANCE**.

Maintain appropriate management zones in relation to recreational uses and conservation of this critically endangered community. Ensure a high level of public security/ safety and passive surveillance. Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity. Identify potential seed sources for propagation and future restoration programs. Remove unsympathetic overlays/ additions which are not consistent with natural bushland setting (eg. generic native and exotic planting). For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Critically endangered community (STIF scheduled under EPBC & TSC Acts)
Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ park and streetscape)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Reddy Park – bushland reserve

Location: Pretoria Street, Hornsby – Public reserve

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f) item possesses rare or endangered aspects of NSW's natural history (EPBC Act 1999 and TSC Act 1993)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments.

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 06.11.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Rosemead Road, Hornsby – Road reserve [upper eastern section]

Image/s:



Caption: View of Rosemead Road [looking north-east towards Dural Street] – remnant tree group/ Blackbutt Gully Forest with mature Blackbutt (*Eucalyptus pilularis*). Mature Bunya Pine (*Araucaria bidwillii*) on verge [right] associated with 'Mount Errington' estate.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007/ additional: 11.04.2007

Image Path:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Rosemead Road, Hornsby – Road reserve [upper eastern section]

Image File: P4110446.jpg

Thumb Nail Path:

Thumb Nail File: additional P4110447.jpg – Bunya Pine (*Araucaria bidwillii*) on verge; and P4110450.jpg – remnant tree group/ Blackbutt Gully Forest showing Blackbutt (*Eucalyptus pilularis*) on verge near Nos.14-20 Rosemead Road.

Address: Rosemead Road, Hornsby – Road Reserve [between junction with Dural Street to 100 metres south of junction with William Street].

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees and exotic specimen planting in road reserve (public verge) and adjoining private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural/ Cultural

Group: Vegetation community – remnant tree group/ Blackbutt Gully Forest; and Parks, Gardens and Trees – exotic planting.

Category: Trees – street trees [remnant native group/ cultural planting]

Owner: Hornsby Shire Council/ private

Current Use: public verges and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: The public verges and adjoining gardens along the ridgetop of this upper eastern portion of Rosemead Road retain remnant components (canopy, sub-canopy and some understorey species) of Blackbutt Gully Forest. Although relatively common in the Hornsby Shire, this community is poorly conserved

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Rosemead Road, Hornsby – Road reserve [upper eastern section]

outside the local area. Blackbutt Gully Forest is considered to be of local significance in Hornsby Shire (Smith & Smith 2007 and HSCS 2006). This community has previously been described as Western Sandstone Gully Forest (DE&CC 2002) and Sydney Sandstone Gully Forest (Map Unit 10agii) (Benson & Howell 1994). This impressive stand of trees has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. The group is dominated by a number of massive old growth specimen Blackbutt (*Eucalyptus pilularis*), some of which are of individual significance. These tall trees are evocative of the original bushland character and create a memorable sense of place. They form a more or less contiguous group of trees which extends to Dural Street (refer to listing). This remnant native tree group has a broader association with other groups in the local area further reinforcing the significance of this cluster (refer to similar listings for William Street and Manor Road, Hornsby).

These remnant native trees merge with other heritage listed trees associated with the gardens of 'Mount Errington' (c.1895) and 12 Rosemead Road. The verge adjacent to 'Mount Errington' contains a magnificent specimen Bunya Pine (*Araucaria bidwillii*) and Camphor Laurel (*Cinnamomum camphora*). Other planted cultural specimens, including English Oak (*Quercus robur*) and Cabbage Palm (*Livistona australis*), are located in this private garden (refer to listing). The single Norfolk Island Pine (*Araucaria heterophylla*), located in the front garden of 12 Rosemead Road, further enhances the visual and aesthetic qualities of this location (refer to listing).

Historical Notes or

Provenance: This listing includes items of natural occurrence [ie. not cultivated] and a cultural overlay of exotic planting dating from the late nineteenth/ early twentieth century.

Physical Description: The native and exotic trees have been retained/ protected within the public verges and adjoining private gardens. The main clusters of remnant native trees (Blackbutt Gully Forest) occur within the north-eastern portion of Rosemead Road (near Dural Street) and adjacent to properties Nos.14-20 Rosemead Road (western verge). No details are provided for cultural exotic planting (see individual listings). Native tree species include the following:-

Common Name(s):

Smooth-barked Apple
Blackbutt
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus pilularis
Syncarpia glomulifera

Origin: natural occurrence (Blackbutt Gully Forest)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Rosemead Road, Hornsby – Road reserve [upper eastern section]

Extent of Influence: Canopies extend over public verges, adjoining private properties and partially over roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 25-30 metres

Canopy Spread: up to 25-30 metres

Trunk Diameter: av. 600mm-900mm (up to 1300mm) @ 1.0 metre above ground level

Estimated Age: av. 60-80 years+/- some old growth specimens up to 120-150 years+

Integrity/ Intactness: Old growth specimens are retained in the group structure [canopy, sub-canopy and some understorey species are present]. Natural recruitment however is restricted by current management practices [eg. regular mowing/ pruning, tree removals and general garden maintenance]. This remnant group is increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies [overhead power lines/ canopy alignment]. The trees display a varying level of insect damage, some with basal cavities/ hollows and dead wood in the crowns.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Remnant native community of local significance
Ecological/ biodiversity values (including faunal habitat)
Early historic/ cultural associations
Aesthetic/ visual significance (natural vegetation on ridgeline/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: Rosemead Road, Hornsby – Road reserve [upper eastern section]

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments (old growth specimens).

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire 2007
Native Vegetation of the Cumberland Plain DE&CC (NSW) 2002
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W 12.08.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Garden tree

Location: 12 Rosemead Road, Hornsby [Lot 1 DP 620465]

Image/s:



Caption: View of Norfolk Island Pine (*Araucaria heterophylla*) [right-background] in the front garden of No.12 Rosemead Road.

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007

Image Path:

Image File: P4110452.jpg

Thumb Nail Path:

Thumb Nail File:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Garden tree

Location: 12 Rosemead Road, Hornsby [Lot 1 DP 620465]

Address: 12 Rosemead Road, Hornsby [Lot 1 DP 620465]

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names:

Area/ Group/ Complex: Single specimen tree in private garden as scheduled.

Aboriginal Area:

Curtilage/ Boundary: Lot 1 DP 620465

Item Type: Landscape – Cultural

Group: Parks, Gardens and Trees

Category: Specimen tree – private garden

Owner: private

Current Use: private garden

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: LOCAL (HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: This single specimen Norfolk Island Pine (*Araucaria heterophylla*) has local significance in terms of its historic/ cultural associations, visual, aesthetic, landmark and representative values. Notably, this pine continues to be a visually prominent and defining landscape element on this ridgeline. It forms part of a larger cluster of tall native trees and exotic cultural planting dating from the late nineteenth/ early twentieth century (see listings for Rosemead Road, 'Mount Errington' and Manor Road). Norfolk Island Pines have a long history of cultivation dating back to the beginnings of European settlement in Sydney (Wilson 2004, LandArc 2005). These pines were a popular choice for larger gardens and public parks throughout much of the twentieth century however mature specimens are now somewhat rare in the Hornsby LGA.

Historical Notes or
Provenance:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Garden tree

Location: 12 Rosemead Road, Hornsby [Lot 1 DP 620465]

Physical Description: The Pine is located in the front lawn/ garden of 12 Rosemead Road:-

Common Name(s):

Norfolk Island Pine

Botanical Name(s):

Araucaria heterophylla

Origin: Ornamental/ cultivated (*A. heterophylla* – Norfolk Island).

Extent of Influence: Canopy is largely contained within the front garden of this property. The root zone is likely to extend to a similar or possibly larger area of influence.

Height: 25 metres

Canopy Spread: 15 metres

Trunk Diameter: 900mm @ 1.0 metre above ground level

Estimated Age: 100-120 years+

Integrity/ Intactness:

Condition/ Health: The pine appears to be in decline/ senescence with a damaged crown (possibly due to storm damage), thinning canopy, extensive dead wood in the upper and mid- crown and overall loss of vigour. There is no evidence of renewed apical growth.

Recommended

Management: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

The health of this ageing pine should be monitored. Further investigation is recommended. For a detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

Further Comments: Early historic/ cultural associations
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Criteria e)

Criteria f)

Criteria g)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Garden tree

Location: 12 Rosemead Road, Hornsby [Lot 1 DP 620465]

References: LandArc Pty Limited, Register of Significant Trees for City of Sydney (2005)
Wilson, E. Poetry of Place – Royal Botanic Gardens, Sydney 2004 [pp.43-44]

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Survey by: Ashton, W., 12.08.1992].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: William Street, Hornsby – Road reserve

Image/s:



Caption: View of William Street (between Lisgar Road and Rosemead Road) looking east showing remnant native tree group (Blackbutt Gully Forest)/ old growth Blackbutt (*Eucalyptus pilularis*) [left/ background] and planted row of Jacarandas (*Jacaranda mimosifolia*) [right].

Copyright: Hornsby Shire Council

Image By: Noel Ruting, LandArc Pty Limited

Image Date: 11.04.2007

Image Path:

Image File: P4110442.jpg

Thumb Nail Path:

Thumb Nail File:

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: William Street, Hornsby – Road reserve

Address: William Street, Hornsby – Road Reserve

Suburb/ Nearest Town: Hornsby NSW 2077

Other/ Former Names: Roadside Trees

Area/ Group/ Complex: Remnant native trees and exotic row plantation (cultural planting) within road reserve (public verge) and private gardens as scheduled.

Aboriginal Area:

Curtilage/ Boundary: see description

Item Type: Landscape – Natural/ Cultural

Group: Vegetation community – remnant tree group/ Blackbutt Gully Forest; and Parks, Gardens and Trees – exotic planting

Category: Trees – street trees [remnant native group/ row plantation]

Owner: Hornsby Shire Council/ private

Current Use: public verges and private gardens

Former Uses:

Assessed Significance: LOCAL (HSHS Perumal Murphy Wu 1993/ HSLEP 1994)

Endorsed Significance: **LOCAL** (GROUP A)/ **NOT SIGNIFICANT** (GROUP B)
(HSLEP-4 REVIEW LandArc 2007)

Statement of Significance: **Group A:** The public verges and adjoining gardens in the western portion of William Street (between Lisgar Road and Rosemead Road) conserve significant remnant components (ie. canopy, sub-canopy and understorey species) typical of the Blackbutt Gully Forest community. Although common in the Hornsby Shire, this community is poorly conserved outside the local area. Blackbutt Gully Forest is considered to be of local significance in Hornsby Shire (Smith & Smith 2007 and HSBCS 2006). This group has significance in terms of its natural, representative, rarity, ecological/ biodiversity, genetic, visual and aesthetic values. The group retains some magnificent old growth specimen Blackbutt (*Eucalyptus pilularis*) of individual significance. Together these tall trees are evocative of the original bushland character and create a

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: William Street, Hornsby – Road reserve

distinctive sense of place in this suburban streetscape (refer to similar listings for Rosemead Road, Dural Street and Manor Road, Hornsby).

Notably, other remnant canopy species including Blackbutt (*Eucalyptus pilularis*) and Turpentine (*Syncarpia glomulifera*) occur to the east near Frederick Street intersection and within the grounds of the Uniting Church (car parking area). This is a remnant group of the Sydney Turpentine-Ironbark Forest (STIF) which is scheduled as a critically endangered ecological community in the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* and listed as an endangered ecological community in the *NSW Threatened Species Conservation Act 1995*.

Group B: A small row plantation of Jacarandas (*Jacaranda mimosifolia*) near Lisgar Road intersection was identified in the HSHS 1993. The Jacaranda is a very common cultivated species in the Sydney metropolitan area. The form and integrity of these trees has been compromised by heavy lopping for overhead power lines. There are no individual specimens of significance in the group. Although providing local neighbourhood amenity value, these Jacarandas are not considered to have local significance.

Historical Notes or

Provenance: All scheduled items are of natural occurrence [ie. not cultivated]. The HSHS 1993 noted the local significance of a small row of Jacarandas (*Jacaranda mimosifolia*) in the southern verge (adjacent to Nos. 57-61) (Perumal Murphy Wu Pty Ltd, 1993 – second inventory dated 23.04.1993). It was believed that they were planted c.1940s however their overall size, scale and development suggests a later period, possibly c.1950s-1960s.

Physical Description: **Group A (only):** The native trees have been retained/ protected within the public verges and adjoining private gardens. Native canopy species include the following:-

Common Name(s):

Smooth-barked Apple
Blackbutt
Turpentine

Botanical Name(s):

Angophora costata
Eucalyptus pilularis
Syncarpia glomulifera

Origin: natural occurrence (Blackbutt Gully Forest)

Extent of Influence: Canopies extend over public verges, private properties and partially over roadway. The root zones are likely to extend to a similar or possibly larger area of influence.

Height: up to 22-25 metres

Canopy Spread: up to 20-25 metres

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: William Street, Hornsby – Road reserve

Trunk Diameter: varies; up to 1300mm @ 1.0 metre above ground level

Estimated Age: av. 60-80 years+/- some old growth specimens up to 120-150 years+

Integrity/ Intactness: Canopy, sub-canopy and some understorey species are retained in the group structure. Some old growth specimens occur in this group (eg. *Eucalyptus pilularis* near Lisgar Road intersection). A remnant native understorey and ground stratum occurs along the verge adjacent to No.63 William Street (including *Acacia littoralis*, *Pittosporum undulatum* and *Eustrephus* spp.). Natural recruitment however is restricted by current management practices [eg. regular mowing/ pruning, tree removals and garden maintenance]. This remnant group is increasingly vulnerable to further fragmentation and attrition and may be lost altogether over time unless these management issues are properly addressed.

Condition/ Health: Most trees appear to be in fair to good condition with minimal pruning to canopies. The trees display a varying level of insect damage, some with cavities/ hollows and dead wood in the crowns.

Recommended

Management: GROUP A: RETAIN LOCAL HERITAGE LISTING IN HSLEP.

Investigate opportunities for enhanced natural recruitment/ regeneration and connectivity particularly within gaps along the public road reservation. Identify potential seed sources for propagation and future restoration programs. For further detailed assessment of health, condition and tree management recommendations, a qualified arborist should be consulted.

GROUP B: REMOVE ITEM (ROW PLANTATION) LISTING IN HSLEP (ie. Jacarandas).

HSLEP4 – REVIEW recommends that the remnant native tree group (Sydney Turpentine-Ironbark Forest) near Frederick Street intersection and within the grounds of the Uniting Church be included in this listing.

Further Comments: Ecological/ biodiversity and genetic values (including faunal habitat)
Aesthetic/ visual significance (local neighbourhood/ streetscape)

Criteria a)

Criteria b)

Criteria c)

Criteria d)

Hornsby Heritage Inventory

SHI Number

Hornsby Heritage Inventory – Stage 4

Item Name: Street trees [Roadside trees]

Location: William Street, Hornsby – Road reserve

Criteria e)

Criteria f)

Criteria g) item is important in demonstrating the principal characteristics of a class of natural places or natural environments (old growth specimens).

References: Hornsby Shire Council, Biodiversity Conservation Strategy 2006
Smith, P & Smith, J. Native Vegetation Communities of Hornsby Shire, 2007
NSW Scientific Committee – final determinations, DE&CC (NSW), 2007
Benson, D & Howell, J. (1994) *Cunninghamia* 3(4): 677-780
Benson, D & McDougall, L. (1998) *Cunninghamia* 5(4): 808-983
Benson, D & Howell, J. (1990) *Taken for Granted*. (Kangaroo Press)

Studies: Hornsby Shire Heritage Study, Perumal Murphy Wu Pty Ltd for Hornsby Shire Council and the NSW Department of Planning (1993) [Surveys by: Ashton, W 12.08.1992 and 23.04.1993].

Latitude:

Longitude:

Location Validity:

Map Name:

Spatial Accuracy:

AMG Zone:

Map Scale: