

Urban Tree Management Australia Pty Ltd

ACN 098 599 805 ABN 56 098 599 805

65 Excelsior Street Merrylands NSW 2160

Phone 02 9760 1389 Facsimile 02 9760 1102 admin@utma.com.au www.utma.com.au

Accredited member of



REPORT:

PEER REVIEW

of

UPDATED ARBORICULTURAL IMPACT ASSESSMENT (AIA) REPORT

by Russell Kingdom of

Advanced Treescape Consulting

for

1444b, 1446b, 1448, 1450, 1452, 1454 Pacific Highway, TURRAMURRA

on behalf of Mackenzie Architects

Prepared 29 November 2012 Reference 15097

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Appendices

Appendix A Guidelines For The Preparation Of Arborist's Reports

Appendix B Curriculum Vitae Danny Draper

1.0 INTRODUCTION

- 1.1 My name is Danny Benjamin Draper of 65 Excelsior Street, Merrylands, New South Wales, 2160. I am the Director and Principal Consultant of the Arboricultural and Horticultural consulting firm Urban Tree Management AUSTRALIA P/L trading as URBAN TREE MANAGEMENT © (UTM). The business was established in 1998 and I have been working as a Horticultural and Arboricultural Consultant part time since 1993 and full time since 1998. I have been managing trees as a resource within the urban environment full time since 1989 and was employed full time by Local Government in the field of Horticulture and Arboriculture from 1986-1998. My experiences within the industry include: writing reports for the management of trees primarily within the urban environment, Tree Management Policies and Tree Preservation Orders; writing articles for industry magazines; speaking at industry conferences, teaching at TAFE NSW, and at the Australian College of Applied Science (ACAS), participation on committees to develop Australian Standards for the Horticultural and Arboricultural industry and Chair of Committee EV-018 (formerly BD-068) that developed AS4970 (2009) Protection of Trees on Development Sites, professional witness in Land and Environment Court cases and District Court cases, founding member of the Local Government Tree Resources Association (LGTRA), honorary president of that organisation from 1995 - 2001, and founder of the Institute of Australian Consulting Arboriculturists (IACA) in 2002 and honorary president of that organisation 2003-2009, Vice President 2010-2013, curriculum vitae included here as Appendix B.
- 1.2 I have been engaged to conduct a peer review of the *Updated Arboricultural Impact Assessment Report, 1444b, 1446b, 1448, 1450, 1452, 1454 Pacific Highway, Turramurra,* 5 September 2012 (herein after referred to as *the report*), prepared by Russell Kingdom of Advanced Treescape Consulting, PO Box 7192, Kariong NSW 2250. I was engaged to conduct the peer review through UTMA Pty Ltd by Mackenzie Architects, 4/3 The Postern, Castlecrag NSW 2068. Mackenzie Architects are the Architects representing the applicant for the development Application for *the site*.

2.0 METHODOLOGY

2.1 This report will systematically examine each respective section of the Advanced Treescape Consulting (ATC) report. I have read *the report* of ATC and examined the plans provided as part of the report. The review will compare the works undertaken to that of industry best practice and current scientific methodology and laws pertaining to trees and vegetation management at the site and the Kuring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

3.0 PEER REVIEW

Advanced Treescape Consulting Report, 5 September 2012

1.0 Proposal

3.1 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

2.0 Background

3.2 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

3.0 Site Inspection

3.3 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

3.1 Site Assessment

3.4 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

4.0 Method of Assessment

3.5 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. The methodologies cited are current and in accordance with industry best practice including Australian Standards AS4373 (2007) *Pruning of amenity trees* and AS4970 (2009) *Protection of trees on development sites* and the use of visual tree assessment (VTA) (Mattheck, 2004) to determine anomalous tree growth divergent from average for that considered typical tree growth of good form and vigour to determine structural deficiencies as an indicator of hazard potential and remaining safe life span per tree *in situ*.

5.0 Tree Schedule

3.6 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

<u>5.1 Assessment of VTA, Recommendations of Impact & Tree Protection</u> Measures required by Proposed Plans

- 3.7 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. In this section its introductory notes clearly detail that it is an explanation of the tabular Tree Schedule (Appendix 2) and provides a brief identification of each tree by number, genus, species and common name and provides a hazard rating from 1-12 with a clear explanation provided and a Safe Useful Life Expectancy (SULE) rating and reference to Appendix 10, followed by a concise 3 part interpretation of the Tree Schedule subject to the proposal for VTA suitability for retention, Impact of proposed plan and Tree Protection Zone measures, respectively. The assessments and explanations were consistent throughout the section and accurately discussed the findings of the Tree Schedule (Appendix 2) with cross referencing to other sections of the report and its appendices. Additionally, sections were highlighted in red coloured text for Trees 154 and 391, as the first tree was unaffected by the proposed works but was identified as dangerous and the latter requiring Arboricultural supervision during excavation within its Tree Protection Zone.
- 3.8 The assessment of Trees 288, 293, 385, 390 is considered specifically here as all have been considered by some Council staff to warrant further scientific testing for structural integrity.

<u>Tree 288</u> was identified with a hazard rating of 8, a SULE rating of 2D and located within a proposed building envelope and would require removal and replacement making such a test redundant.

<u>Tree 293</u> was identified with a hazard rating of 4, a SULE rating of 2D and located within a proposed building envelope and would require removal and replacement making such a test redundant.

<u>Tree 385</u> was identified with a hazard rating of 10, a SULE rating of 4C, to be in fair health and very poor structural condition, leaning 15 degrees and partially lodged in another tree and located within 3 m of a proposed building envelope and would require removal and replacement making such a test redundant.

<u>Tree 390</u> was identified with a hazard rating of 12, a SULE rating of 4A/D and failed the visual tree assessment with large deadwood, epicormic shoots, bracket fungus and a trunk wound in one of the co-dominant first order structural branches and one such stem sounded hollow when tested for harmonic resonance. The assessment identified the tree as hazardous recommending its removal and replacement making such a test redundant.

The assessment of these 4 trees was thorough and consistent with the professional assessment of all other trees with calls for internal structural testing considered unnecessary.

5.2 Discussion

- 3.9 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. This section succinctly and methodically lists in point form:
 - trees considered suitable retention,
 - trees to be removed having failed the visual tree assessment (VTA),
 - street trees and the impact of the development,
 - trees on neighbouring properties and the impact of the development,

 - trees species listed in the Ku-ring-gai Council Weed Management Policy as exempt from protection under the Tree Preservation Order,
 - trees that pass the VTA, but are situated less than <3 m from the proposed works and were unsuitable for retention
 - followed by a summary of the total number of trees impacted per category.

This was followed by satisfactory notes also in point form, detailing trees impacted being nominated in the table in section 5.5 with setbacks required for each tree for its Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) as per Australian Standard 4970 (2009) Protection of trees on development sites. Other tree protection notes included the impact of soil compaction, location of utility services, washing of equipment, location of site sheds, and construction of footpaths.

5.3 Tree Significance (Appendix 5)

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. This brief section recognises the significance of the Sydney Blue Gum High Forest as a threatened ecological community and the reference to Appendix 5 for tree protection for setbacks for Tree Protection Zone and Structural Root Zone per AS4970 (2009).

5.4 Identify Further Potential Impacts on Trees by Proposed Plans

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

5.5 Tree Protection Zones using AS4970:2009

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. The table in this section provides ground and root plate protection as setbacks required for each tree for its Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) as per Australian Standard 4970 (2009) Protection of trees on development sites and refers to Appendices 5 and 6 where extracts from the Australian Standard are provided in greater detail.

5.6 Gradient of Impacts

I have no criticism of this section of the report and it is satisfactory to comply with 3.13 the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A, as it has been used in many Arboricultural Impact Assessment (AIA) Reports (AS4970, 2009) prepared by Arboricultural Consultants and submitted to and accepted by Ku-ring-gai Municipal Council, although developed separate to that Standard and adequately considered by section 3.3.3 Major Encroachment.

6.0 Tree Protection Plan of Management

6.0.1 Site Preparation

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A, and clearly and concisely identifies individual trees for removal and retention, respectively, stating the role of the Project Arborist to determine the location of tree protection fences and certification of such works and the location of stock piling to protect trees.

6.0.1.1 Removal of Existing Trees near Trees to be Retained

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A and practices sufficient to protect trees as per AS4970 (2009), including stating the role of the Project Arborist to supervise specific works near retained trees to protect them and certification of such works.

6.0.2 Identify trees to be protected during Demolition of Existing Structures

3.16 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A and practices and specific detailed instructions sufficient to protect nominated trees as per AS4970 (2009), including stating the role of the Project Arborist to supervise specific works near retained trees to protect them and certification of such works and reporting the completion of such works to Council.

6.0.2.1 Demolition of Built Structures – Precautions to Protect Trees

3.17 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A and practices and generic detailed instructions sufficient to protect retained trees as per AS4970 (2009).

6.0.2.2 Demolition of Landscape Structures

I have no criticism of this section of the report and it is satisfactory to comply with 3.18 the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A and practices and generic detailed instructions sufficient to protect retained trees as per AS4970 (2009) including an advisory note to contact the Project Arborist if a tree becomes unstable.

6.0.2.3 Trunk Armour

I have no criticism of this section of the report and it is satisfactory to comply with 3.19 the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A and practices and general detailed instructions and diagram, sufficient to protect the trunk and stems of retained trees as per AS4970 (2009).

6.0.3 Identify trees to be protected during Construction Works

3.20 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A and tree protection practices in accordance with AS4970 (2009) including tree protection zone fences utilising existing property boundary fences and notification of the Council.

6.0.4 Excavation close to Tree Protection Zones

3.21 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. This included tree protection practices in accordance with AS4970 (2009) and tree protection specifications subject to excavation works for basement excavation, root pruning, root barriers, construction of driveways and footpaths at grade and setbacks from trees to protect trunks and roots, with the Project Arborist to supervise and monitor specific works near retained trees to protect.

6.0.5 Stormwater Management

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. This included tree protection practices in accordance with AS4970 (2009) for the tree protection zones of specific trees subject to pipeline installation, and the tree protection as manual excavation by hand for some trees, with the Project Arborist to supervise and monitor such works.

6.0.5.1 Installing underground services within TPZ

3.23 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. This included tree protection practices in accordance with AS4970 (2009) for the tree protection zones of trees generally subject to installation of underground utilities within TPZ and the tree protection as manual excavation by hand for some trees, or pneumatically or hydraulically, or by directional drilling with minimum depth of bore below root plates specified, with the Project Arborist to supervise and monitor such works and to advise of roots suitable to pruned where necessary.

6.0.6 Above Ground Impacts - Crown Reduction to Accommodate **Buildings & Scaffolding**

3.24 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. The table in this section provides crown pruning specifications for 14 trees for clearance from buildings prior to scaffolding being installed as per Australian Standard AS4970 (2009) Protection of trees on development sites and AS4373 (2007) Pruning of amenity trees.

6.0.6.1 Scaffolding

3.25 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. This included tree protection practices and diagram in accordance with AS4970 (2009) for the installation of scaffolding within a tree protection zone.

6.1 Tree Protection Fencing

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A. This included tree protection practices consistent with AS4970 (2009).

6.2 Landscaping Phase

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

7.0 Conclusions

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

8.0 Recommendations

3.29 I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A.

Appendices

I have no criticism of this section of the report and it is satisfactory to comply with the Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports (2007) Appendix A, with all appendices detailed, thorough and relevant with plans accurately prepared with tree locations, numbering and area of encroachment.

4.0 PEER REVIEW CONCLUSION

- 1. The report lacked a summary at the beginning which is generally common practice to make the report more readily accessible.
- 2. The extensive legend of abbreviations and column titles in Appendix 2 Tree Schedule, would be easier to read and interpret if each was repeated at the beginning of each consecutive page.
- 3. Appendix 4 Rating System for Tree Significance was not correctly referenced to cite IACA the Institute of Australian Consulting Arboriculturists as its source as indicated on their website www.iaca.org.au.
- 4. Overall, the report was comprehensive and professional, relying on the consistent application of current and relevant Arboricultural scientific research and best practices, environmental laws, Australian Standards and empirically from extensive professional experience, evident in the detailed comprehensive assessment criteria and thorough field data collected for each tree based on health/vigour, condition, structure, remaining life span, stability, risk and hazard, and recognition that retention of some trees and replanting with new Sydney Blue Gum High Forest species will improve the forest in the long term, consistent with the goals of Ku-ring-gai Municipal Council.

Danny Draper Principal Consultant

IACA ACM0012003 Urban Tree Management Australia P/L

Dip. Hort. (Arboriculture),

Oraper

Assoc. Dip. Hort. (Pk. Mgmt.),

Hort. Cert.

DISCLAIMER

The author and Urban Tree Management take no responsibility for actions taken and their consequences, contrary to those expert and professional instructions given as recommendations pertaining to safety by way of exercising our responsibility to our client and the public as our duty of care commitment, to mitigate or prevent hazards from arising, from a failure moment in full or part, from a structurally deficient or unsound tree or a tree likely to be rendered thus by its retention and subsequent deterioration from modification/s to its growing environment either existing or proposed, either above or below ground, contrary to our advice.

Appendix A — Guidelines For The Preparation Of Arborist's Reports

Source: Ku-ring-gai Municipal Council Guidelines For The Preparation Of Arborist's Reports, viewed 29 November 2012,

http://www.kmc.nsw.gov.au/resources/documents/Guidelines_for_Preparing_An_Arborist_Report_2007.pdf

GUIDELINES FOR THE PREPARATION OF ARBORIST'S REPORTS

The following information is required in the preparation of a consulting arborist report to accompany applications made in relation to Ku-ring-gai Council's Tree Preservation Order.

- * The address of the site containing the trees and the date of the inspection
- * Who the report was prepared for and the aims of the report.
- * Methods and/or techniques used in the inspection.
- * A plan to scale of the site accurately showing the location of the trees, north point and any services buildings or structures or adjacent trees relevant to the assessment.
- * A table for each tree assessed showing the number of the tree as shown on the plan, species name, height, trunk diameter, and canopy spread, health condition and estimated useful life expectancy, significance of the tree in the landscape.
- * A discussion of the data collected this may include detailed information regarding wounds, cavities, cracks, splits, structure, root zone or pests and diseases.
- * Supporting evidence such as photographs or test results where appropriate.
- * Proposed replacement plantings, landscaping and soil remediation
- * Sources of information referred to in the report.
- * A discussion of all the options available why they are recommended or why they are not recommended. For example are there suitable options for tree management that would allow the tree to be retained.
- * Recommendation as to the preferred option and the reasons therefore.

The report must also contain the name, address and telephone number, qualifications and experience of the person or company carrying out the inspection and reporting.

The above list is not exhaustive and there may be other site considerations necessary to ensure adequate information is supplied to Council.

Council requires that the consulting arborist who prepares the report has a minimum qualification of **Australian Qualification Framework Level 5 (AQF5).**

Council will consider the level of detail and relevance of information contained in any report however council may not necessarily agree with the findings or recommendations in the report TAFE NSW and Ku-ring-gai Council regards graduates who hold the Certificate in Tree Surgery only as their qualification as a "Tree Worker" and <u>not</u> a professional arborist for report preparation.

N:\Document Library\Website\PDFs for Web\TPO 07\Guidelines for Preparing An Arborist Report 2007.doc

Appendix B

Curriculum Vitae

Danny Benjamin Draper

Updated Arboricultural Impact Assessment, 1444b, 1446b, 1446b, 1450, 1452, 1454 Pacific Highway, Turramurra NSW ©

Danny Draper

65 Excelsior Street, MERRYLANDS NSW 2160

Principal Consultant (Director)

Urban Tree Management Australia P/L (ACN 647 195 572) trading as Urban Tree Management (ABN 52 647 195 572)

Telephone 9760 1389 Facsimile 9760 1102 Mobile 0418 471 806

email <u>danny@utma.com.au</u> Website <u>www.utma.com.au</u>

Employment History

Consulting Arboriculturist - Private Consultancy

1998 - Present

- Report writing and consultations for Councils, developers and private land owners.
- Interdisciplinary work with Archaeologists on scar trees since 2000.
- Expert witness, preparing evidence and giving testimony, District Court Sydney and Land and Environment Court NSW - for Local Government and Corporate clients for Arboricultural, Horticultural and other vegetation management matters
- Hazardous tree assessments and surveys/reports
- Quotations for operational arboriculture 1998.
- Rockdale City Council
 - Assessment of significant street tree subject to conflict with built structures 2010
 - Assessment of significant street trees and development of removal and replacement planting strategy 2005
 - Assessment of senescent significant tree in park for hazards against impact of public works - 2003.
 - Advice regarding tree planting setbacks for unit housing, inclusion in Landscape Development Control Plan - 2003.
- Hornsby Shire Council
 - Professional witness Trees survey for preparation of Land and Environment Court evidence 1999-2000
 - Ongoing consultations as a Consulting Arboriculturist assessing Development Applications and other projects involving trees and the environment as required.
 - Conducted training seminar for Tree Management staff 2001.
 - Preparation of tree inventory on development site as part of Council's Development Application assessment. - 2004
 - Court appointed Expert Witness L & E Court 2006
- <u>Marrickville Council</u>
 - Street Tree Survey 1998 1999
- Fairfield City Council
 - Gateway and Street Study -1998
- Council of the City of Sydney
 - Tree management and assessment for hazards, street and park trees including Hyde Park (2004), 2004 - 2011
 - Assessment for hazards, tree on private property subject to development works – 2004
 - Management of Tree Survey and management planning advice, Perry Park - Alexandria – 2005
 - Management of Tree Survey and management planning advice, Erskineville Oval, Erskineville – 2006
- Bankstown City Council
 - Selective Street tree and Park tree inventory 2010

Peer Review of report by Advanced Treescape Consulting: Updated Arboricultural Impact Assessment, 1444b, 1446b, 1446, 1450, 1452, 1454 Pacific Highway, Turramurra NSW ©

Blue Mountains City Council -

- Relief work Tree Preservation Order and Street Tree application inspections - 1998 -1999
- Review Specifications for Contractors Tree Management Programme.
- Review of Draft Tree Preservation Order 1999
- Arboricultural Assessment Comprehensive Report Lower Blue Mountains Aquatic Centre, Springwood - 2002

Newcastle City Council -

- Relief work (locum) in the role of Urban Tree Management Officer from 26/2/1999 to 30/7/1999
- Review and rewrite Newcastle City Tree Management Order 2000

South Sydney City Council -

- Assessment of tree root mapping for stormwater drainage construction -2003
- Insurance claims and trees 2003
- Street tree management issues 2003
- Hazardous tree assessment and protection specifications 2001 Tree Assessment under the Tree Preservation Order - 2000

Canterbury City Council -

Development Application landscape assessment - 1998

Canada Bay City Council -

- Development Application Tree Management and Landscape Assessment - 2002
- Hazardous tree assessment 2001

Penrith City Council -

- Tree Preservation Order application independent assessment 2012
- Arboricultural Impact Assessment Shared Bicycle and Pedestrian Path, Memorial Avenue, Penrith - 2011
- Development Application Tree assessment reporting 2005
- Significant tree assessment & management advice Memory Park 2005
- Street Tree (asset) replacement Strategy Management Plan 2006

Warringah Council -

- Professional witness Vegetation and Tree survey for preparation of Land and Environment Court evidence, 2000 – 2004
- Court appointed Expert Witness L & E Court 2005

Wollongong City Council -

- City Foreshore and City Parks Tree Survey, 2008
- Expert witness Class 1 L&E Court Proceedings, 2011

Botany Bay City Council -

Hazardous Tree assessment, 2009

Hawkesbury City Council -

- Locum, Tree Management Officer, inspections and assessments, 2011
- Independent street tree assessment and report 2011

Sydney Metro Rail Project NSW Govt. -

Arboricultural Impact Assessment & Arboricultural consultancy services, design stage – 2009-2010.

Wynyard Walk NSW Govt. -

Arboricultural Impact Assessment & Arboricultural consultancy services, design stage – 2011-2012

North West Rail Link NSW Govt. -

- Arboricultural Impact Assessment & Arboricultural consultancy services, design stage - 2011
- Tree Transplantation Feasibility report Arthur Whitling Park, Castle Hill Station, co-authored with Tree Transplanters Australia Pty Ltd - 2012
- Suitability of potential transplantation locations report 2012
- Sub-contracting consultant (NSW) to Rootmasters P/L (tree root and soil moisture control specialists), 18 Brixton Rise, Glen Iris, Victoria 3146
- Sub-contracting consultant to AAA Arbormasters P/L 1999.

Teacher - Part Time - Australian College of Applied Science (ACAS).

2000-2001

Subjects taught: Tree System, Modern Arboricultural Techniques, Recognition of plants, products and treatments, Plant trees and shrubs, Transplant small trees, Prune small trees and shrubs, Safe Handling.

TAFE Teacher - Part Time - Northern Sydney Institute of TAFE, Ryde.

1997-1999

Subject taught: Park Operations - Associate Diploma of Applied Science (Horticulture Park Management)

Corporate clients (abridged list)

1993-present

Tree surveys, reports to Councils on tree removal/retention and replacement for Development Applications, preparation of technical specifications and reports for the management of trees on construction sites, mediation with Councils on landscape issues, professional witness.

- John Kinsella (Property Developer), 0418 960 147.
- Designplace P/L (Property developers), 66 Shellcove Road, Neutral Bay NSW 2089, Telephone 02 9953 2891
- Anthony Hudson, Wilshire Webb Staunton Beaty (Solicitors), Telephone 9299
 3311.
- Guy Sturt & Associates (Landscape Architects), PO Box 3038 Redfern NSW 2016, Telephone 9310 5812.
- Banatex P/L (Builders and Architects), 4/6 Shaw Street, Bexley North NSW 2207, Telephone 02 9502 4547
- John Lock & Associates, Mr John Lock (Landscape Architects), 5 Earl Street, Mosman NSW 2088, Telephone 9969 9866.
- Bruce Goldsmith, B.T. Goldsmith Planning Services P/L (Town Planner Advocate), 63 Waratah Street, Haberfield NSW 2045, Telephone 9799 5100.
- Ray Fuggle, Ray Fuggle and Associates (Landscape Architects), Suite 8a, 42-6
 Hunter Street, Parramatta NSW 2150, Telephone 9891 9222.
- David Balog, D C Balog and Associates (Solicitors), Suite 129, Level 8, 267
 Castlereagh Street, Sydney NSW 2000, Telephone 9264 3437.
- Umwelt Australia P/L (Archaeologists) 2/20 The Boulevarde, Toronto NSW 2283, Telephone 02 4950 5322.

Corporate clients prior to 1993

- Ramakers and Taylor P/L (Achitects and Engineers) -
 - Providing Landscape Designs for
 - Shell Oil Australia P/L
 - Kentucky Fried Chicken Australia P/L

Consulting Arboriculturist - TLC Tree Solutions, 59 Harris Street,

Harris Park NSW 2150, Ph 02 9806 0333.

(18 weeks) 1998

- Report writing for Councils, developers and private land owners
- Hazardous tree assessments and surveys/reports
- Quotations for operational arboriculture
- Street Tree Survey Marrickville Council
- Relief work Tree Preservation Order and Street Tree application inspections -Blue Mountains City Council

Tree Management Coordinator, Parramatta City Council	1993-1998
Horticultural Advisor, Pittwater Council	1992-1993
Horticultural Advisor, Warringah Shire Council	1989-1992
Trainee Horticulturist, Burwood Municipal Council	1986-1988

Education

Foundation Degree in Science in Arboriculture, currently being undertaken

Diploma in Applied Science Horticulture (Arboriculture) (RUH98) Australian College of Applied Science.	2000
Certificate IV In Assessment Workplace Training (BSZ 40198) Western Sydney Training and Education Centre	2000
Associate Diploma in Applied Science Horticulture (Park Management) Ryde College of TAFE School of Horticulture	1997
Certificate of Horticulture, Ryde College of TAFE School of Horticulture	1988
Completed a 13 weeks intensive tree pruning and maintenance course for Local Government. Course designed and run by Ryde College of TAFE School of Horticulture.	1987
Higher School Certificate - Newtown High School	1981

Awards

Pride of workmanship Award - Presented by Burwood Rotary Club	1987
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Conferences and Seminars attended

1002	Standards Australia - Urban Troos - What are they worth? - Sydney
1992	Standards Australia - Urban Trees - What are they worth? - Sydney
1994	2nd National Urban Tree Seminar - Canberra
1996	Street Tree conference - Melbourne
1997	NAAA workshop - Assessing Hazardous Trees and S.U.L.E Parramatta
1998	Act For Trees launch - Canberra
1998	Dr Alex L. Shigo seminar - Parramatta
1999	Professor Dr Claus Mattheck - Body Language of Trees - Seminar - Macquarie University
1999	International Society of Arboriculture Australian Chapter Conference and seminar - Parramatta
1999	Parks and Leisure Australia - Trees in the Urban Environment - Wagga Wagga
2000	NAAA workshop - Fungi for the arborist - Leura NSW
2000	International Society of Arboriculture Australian Chapter Conference and seminar - Brisbane
2001	Professor Dr Claus Mattheck - Visual Tree Assessment - Advanced Lecture Series, The Blaxland Hotel 'Auditorium', Northern Institute TAFE, Ryde Campus, 250 Blaxland Road, Ryde
2002	Ed Hayes – Safe Trees – A programmatic comprehensive approach to valuating the risk of tree failure - Australian Museum, Sydney
2003	Parks and Leisure Australia – Urban Trees our Urban Urgency - The Blaxland Hotel 'Auditorium', Northern Institute TAFE, Ryde Campus, 250 Blaxland Road, Ryde
2004	Professor Dr Claus Mattheck – Seminar, Carlton Hotel, Church Street Parramatta.
2007	Phytophthora Dieback Forum - Royal Botanic Gardens, Sydney
2008	Treelogic – Sustainable Systems for Urban Trees – Seminar, Macquarie Graduate School of Management, Macquarie University
2008	June, Workshop for the Management of <i>Phytophthora cinnamomi</i> in bushland reserves of the Sydney Metropolitan Catchment Management Authority Area, Royal Botanic Gardens, Sydney
2008	September, Treenet conference, Adelaide.
2010	Treelogic – Porous Pavements – Seminar, Macquarie Graduate School of Management, Macquarie University
2011	International Society of Arboriculture, International Conference – Riverside Theatre Parramatta
2012	HEDRA / IACA workshop AS4970 / AS2870 Bridging the Gaps, 29 June, Parramatta NSW
2012	Psyllid Workshop Seminar – Grey Box of the Cumberland Plain

Professional Associations and Activities

- 1. 1990, Founding member of the Local Government Tree Resources Association (LGTRA) and honorary President 1995 - 2001.
- 1996, Participated on the working party that developed Australian Standard® AS 4373 1996 2. Pruning of amenity trees.
- 3. 1996, Seminar Presenter - Pseudo-street Trees, Street Tree Management Seminar in Melbourne - hosted by the Arboricultural Association of Australia (AAA).
- 4. 1998, February, Key note speaker at the 'ACT For Trees' public meeting in Canberra.
- 5. Member of the International Society of Arboriculture (ISA).
- 6. Member of the International Society of Arboriculture Australia Chapter (ISAAC).
- 7. Provided evidence to the Australian Capital Territory (ACT) Government Standing Committee on Urban Services - An Appropriate Tree Management and Protection Policy for the ACT.
- 8. 1999, 9 December, Seminar Presenter - Parks and Leisure Australia (PLA) Trees in the Urban Environment seminar - Wagga Wagga NSW.
- 9. 1999 – 2009, Participant on Committee No. EV – 068 (formerly BD-068), the working party to develop Australian Standard® AS4970 (2009) Protection of trees on development sites, Chair of committee 2003-2009.
- 2000, 29 May, Speaker at 'ACT for Trees' public seminar in Canberra, regarding Tree Protection 10. regimes outside the Australian Capital Territory.
- 11. 2002, Founder of the Institute of Australian Consulting Arboriculturists (IACA), President 2003-2009, Vice President 2010-2012. PO Box 1320

Parramatta NSW 2124. Phone/Fax 1300 853 288

www.iaca.org.au

- 12. 2003, Seminar Presenter - Parks and Leisure Australia (PLA) Urban Trees our Urban Urgency seminar - Ryde, NSW 24-25 July 2003.
- 13. 2003 – 2005, participant on working party to develop Draft Local Government Association Urban Forest Policy.
- 14. 2003, Seminar Presenter - Trees and People a sustainable future for Urban Trees - at the inaugural GreenX exhibition presented by The Australian Arbor Age magazine at the Castle Hill Showground, Castle Hill NSW.
- 15. 2005 – 2009, Member Standards Australia® Main Committee BD068 – Arboriculture, to develop standards for the Australian Arboricultural industry.
- 2006, Participated on the working party that revised the Australian Standard® AS 4373 2007 16. Pruning of amenity trees.
- 17. 2006, November, Seminar Presenter - (SRIV) Sustainable Retention Index Value - GreenX exhibition presented by The Australian Arbor Age magazine at the Penrith Panthers Rugby League Club, Penrith NSW.
- 18. 2009, Co-author IACA© Dictionary for Managing Trees in Urban Environments, CSIRO Publishing Australia.