

# **Arborist Report**



# **Prepared by Alex Austin Arborist**

# For

# **Roger Bain**

### Reviewing the Planning Proposal at 6 Mitchell Road, Palm Beach

# June 2022

Alex Austin AQF level 8 Consulting Arborist. PO Box 84, Avalon Beach 2017 Email: arborsaw@gmail.com

### 1. Summary

Alex Austin was commissioned by Roger Bain to review the current condition of the site trees in light of a Planning Proposal at 6 Mitchell Road, Palm Beach. The scope of this engagement is to provide information requested by Northern Beaches Council through a Planning Proposal Pre-Lodgement Meeting with Shaw Reynolds Lawyers (14 Dec 2021).

An original Arboricultural Impact Assessment dated 2 September 2020 by Vicki Beecher (the Original AIA) was previously prepared to accompany Development Application (DA2020/1496) for the proposed site development works. The Original AIA has been reviewed in line with the Planning Proposal's request for an additional permitted use at 6 (Lot 1) Mitchell Road, Palm Beach.

A list of the documents and plans supporting the planning proposal and the DA which have been reviewed in the drafting of this report is provided below.

The site and site trees were reinspected on the 25 May 2022, by Alex Austin, an AQF Level 8 Arborist. The tree data contained within the Original AIA was found to be accurate and current. The proposed impacts should the development the Planning Proposal seeks to enable commence (Including the proposed removal of Trees 8 & 11) and controls to minimise impacts to the remainder of the trees which are to be retained, remain valid.

The Planning Proposal has been reviewed and the additional permitted use and development it seeks to enable have no increased Arboricultural impact than that concluded in the Original AIA.

Should the development which the Planning Proposal seeks to enable commence, the replanting to ensure canopy loss is restored should be consistent with that detailed in the landscape plans accompanying DA2020/1496 and the measures endorsed in the Original AIA.

Further, whilst the Planning Proposal itself will not have an Arboricultural impact, should the development it seeks to enable commence, a recommendation has been made to ensure any proposed tower crane installation, use and dismantling operations have the canopies of the adjacent Bible Garden trees as well as the site trees contained within all lift plans.

This Arborist Report in conjunction with the Original AIA provides analysis of the history and current conditions of the site trees at 6 Mitchell Road, Palm Beach. The content of this Arborist Report and the Original AIA is accurate and suitable to support the Planning Proposal's request for an additional permitted use.

This report is to be read in its entirety. This report is to be read in its entirety.

Alex Austin Consulting Arborist Dip. Hort. (Arb.), Grad. Cert. (Arb.), AQF Level 8 Masters Env Law

#### **Table of Contents**

1.	Su	mmary	2
2.	Bac	ckground	3
2.	.1.	Document Details	3
2.	.2.	Documents Reviewed in the drafting of this report	3
3.	Leg	gislation	4
3.	.1.	Biodiversity and Conservation SEPP	4
3.	.2.	Pittwater Local Environmental Plan 2014	4
	3.2	1. Zoning	4
3	.1.	1. Zoning Proposed Additional Use	4
3	.2.	Previous Arboricultural Impact Assessment Review	4
3	.3.	Tower Crane	5
		Replanting	
3	.5.	Recommendations	5
4.	Co	nclusion	6
5.	Ap	pendices	6
5	.1.	Original AIA	6

# 2. Background.

#### **2.1.Document Details**

Version Number	Date	Description
001	30/05/2022	Draft for comment
002	05/06/2022	Final release

### 2.2. Documents Reviewed in the drafting of this report

The following documents have been reviewed in the drafting of this report;

- 1. Arboricultural Impact Assessment for Development Application dated 2 September 2020.
- 2. Planning Proposal Pre-Lodgment Meeting Application, dated 21 July 2021.
- 3. Draft Planning Proposal, 6 Mitchell Road, Palm Beach, dated 28 September 2021.
- 4. Pre-Lodgment Meeting Notes, dated 14 December 2021.
- 5. Flora and Fauna Assessment, by Kingfisher Ecology, dated May2022.
- 6. Proposed Plans, prepared by Stephen Lesiuk, dated July 2020.

# 3. Legislation

### **3.1. Biodiversity and Conservation SEPP**

The subject trees are now protected by the State Environmental Planning Policy (Biodiversity and Conservation SEPP) 2021. Trees proposed for removal or pruning, are covered by the SEPP unless they are considered an imminent danger to life and property (By a AQF Level 5 or above Arborist) and require a permit to be issued by Council.

#### 3.2. Pittwater Local Environmental Plan 2014

#### 3.2.1. Zoning

The site is zoned both C4: Environmental Living & RE1: Public Recreation under the Pittwater Local Environmental Plan 2014.

### 3.1. Proposed Additional Use

The proposal seeks to add an additional permitted use be inserted with respect to RE1 Public Recreation zoned land on the following terms:

Use of certain land at 6 Mitchell Road, Palm Beach

(1) This clause applies to land at 6 Mitchell Road, Palm Beach and identified as "Area [#number#]" on the Additional Permitted Uses Map.

(2) Development for the purposes of a dwelling house is permitted with development consent.

#### **3.2.** Previous Arboricultural Impact Assessment Review

An original Arboricultural Impact Assessment dated 2 September 2020 by Vicki Beecher (the original AIA) was previously prepared to accompany Development Application (DA2020/1496). The original AIA has been reviewed in line with the Planning Proposal and the request for permitted use for RE1 zoned land within number 6 (Lot 1).

The site and trees were reinspected on the 25<sup>th</sup> May 2022 by Alex Austin, An AQF Level 8 Arborist. The tree data contained within the original AIA was found to be accurate. The proposed impacts (Including the proposed removal of Trees 8 & 11) and controls to minimise impacts to the remainder of the trees which are to be retained valid in light of the planning proposal.

The original AIA is attached to this report.

#### 3.3. Tower Crane

The proposed use of a tower crane in order to facilitate the development the Planning Proposal seeks to enable has some potential to impact adjacent tree canopies. Any tower crane installation, use and dismantling operations must have the canopies of the adjacent Bible Gardens trees contained within all lift plans. A spotter must be used to ensure loads avoid contact with the canopies of existing trees



Figure 1 Any proposed crane tower location should be placed so as to avoid potential impacts to the canopies of the trees depicted (Source: Austin  $25^{th}$  May)

#### 3.4. Replanting

Should a development application in relation to the development the Planning Proposal seeks to enable be lodged, any Landscape Plan provided with that development application should include replacement plantings of *Banksia integrifolia* (Coast Banksia), *Banksia serrarta* (Old man banksia), *Livistona australis* (Cabbage Palm) & *Angophora costata* (Sydney Red Gum). Any future Landscape Plan should be consistent with the Landscape Plan prepared by Stephen Lesiuk dated July 2020 provided for DA2020/1496

#### 3.5. Recommendations

The following recommendations are applicable and appropriate as of May 2022:

- 1. Should the development the Planning Proposal seeks to enable commence, the Tree Protection Measurers as per the Original AIA are sufficient and should be applied;
- 2. If the development facilitated by the Planning Proposal proceeds, it should be ensured any future crane operations consider the canopies of the adjacent trees in their lift plans; and
- 3. Any future Landscape Plan lodged with respect to the development the Planning Proposal seeks to enable should provide for replanting consistent with the Landscape Plan prepared by Stephen Lesiuk dated July 2020 provided with respect to DA2020/1496.

# 4. Conclusion

This Arborist Report in conjunction with the Original AIA provides an analysis of the history and current conditions of the site trees at 6 Mitchell Road, Palm Beach. The content is suitable to support the Planning Proposal's request for the additional permitted use for the purposes of a dwelling.

I confirm the following;

- A. The factual matters contained in the report are as far as I know true,
- B. I have made all enquires that consider appropriate,
- C. The opinions held in the report are genuinely held,
- D. The report contains reference to all matters that I consider significant.

Alex Austin Consulting Arborist Dip. Hort. (Arb.), Grad. Cert. (Arb.), AQF Level 8

# 5. Appendices

#### 5.1. Original AIA

# **Arboricultural Impact Assessment**

Prepared for:	6 Mitchell Road, Palm Beach, NSW 2108

Date: 02/09/2020

Prepared by: Vicki Beecher

Consulting Arborist (AQF5), Horticulturalist (AQF5)

BSc Earth Science (Hons)(AQF9)

Ecological Consultants Australia Pty Ltd

# About this document

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#### Statement of Authorship

This study and report were undertaken by Kingfisher at 6 Mitchell Road, Palm Beach. The author of the report is Vicki Beecher with qualifications BSc. majoring in Geology and Climate Science with over 20 years' experience in this field, AQF level 5 Horticulture, AQF level 5 Horticulture (Arboriculture) and AQF level 3 Landscape Construction.

#### **Limitations Statement**

Information presented in this report is based on an objective study undertaken in response to the brief provided by the client. Any opinions expressed in this report are the professional, objective opinions of the authors and are not intended to advocate any proposal or pre-determined position.

### Contents

1	Intr	oduction4
	1.1	Background4
2	Tree	es on Development Sites5
3	Imp	acts of the Proposed Works6
	3.1	General6
	3.2	Trees that shall require removal7
	3.3	Trees that can be retained7
	3.4	Tree pruning works

4	Site Specific Tree Protection7

Appendix 1: Tree Assessment Schedule	9
Appendix 2: Development Impacts & Controls	10
Appendix 3: Tree Protection Zones	11

### 1 Introduction

#### 1.1 Background

- 1.1.1 This Arboricultural Impact Assessment (AIA) was prepared for Stephen Lesuik on behalf of the property owners. It relates to the proposed development 6 Mitchell Road, Palm Beach (the site). This report identifies the impact of the proposed development works on trees located within and adjacent to the subject site.
- 1.1.2 The proposal involves the demolition of the existing house, hardstand and landscape areas and construction of a new residential dwelling, car garage, stair and lift access.
- 1.1.3 The following documentation was reviewed and assists in the preparation of this report:
  - Preliminary Tree Assessment, prepared by Ecological Consultants Australia Pty Ltd, dated 02/01/2019
  - Plan of Lots 1 & 2 in DP1086858 at No 6 Mitchell Rd, Palm Beach, prepared by DP Surveying, dated 11/09/2018 & 12/03/2019
  - Development Application Plans, prepared by Stephen Lesiuk, dated July 2020, sheets DA006, DA007, DA008, DA009, DA010, DA011 and DA017
- 1.1.4 This report is based upon the information provided and observations made during an on-site inspection and site walk-through. Tree data, including tree identification numbers, names and tree protection zone offsets, collected as part of the Ecological Consultants Australia Pty Ltd Preliminary Tree Assessment, dated 02/01/2019, have been used within this report to maintain consistency.
- 1.1.5 This report is to be used in its entirety only. Any written or verbal submission, report or presentation that includes statements taken from the findings, discussions, conclusions or recommendations made in this report may only be used where the whole original report (or a copy) is referenced to and directly attached to that submission, report or presentation. Information contained in the report covers only the trees that were inspected and reflects the trees condition at the time of the inspection. There is no guarantee, expressed or implied, that problems or deficiencies of the subject trees may not arise in the future.

# 2 Trees on Development Sites

- 2.1 The Australian Standard 4970-2009 Protection of Trees on Development Sites defines the requirements for assessing trees with respect to development. It provides the guidance on how to decide which trees are appropriate for retention and on the means of protecting them during construction works. It describes the areas and offsets, referred to as the Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) required to be free from development works to maintain tree vitality and stability. This report has been prepared in accordance with the conditions set out within the standard.
- 2.2 Tree Protection Zone The tree protection zone is defined as a specified area above and below ground set aside for the protection of the tree's roots and crown. It is expressed as a radial measurement taken from the centre of the trunk at ground level.
- 2.3 Structural Root Zone The structural root zone is defined as a specified area around the base of a tree required to maintain its stability within the ground. It is expressed as a radial measurement taken from the centre of the trunk at ground level. Excavation and development works are not recommended within the structural root zone unless additional investigation as to root size and location is undertaken.
- 2.4 Tree protection zone calculations have been made in accordance with AS4970-2009 and can be found within the Tree Assessment Schedule (Appendix 1). Calculation of the Structural Root Zone (SRZ) has been made where required.
- 2.5 Encroachments into the tree protection zone are defined as minor or major.
  - A minor encroachment is less than 10% of the area of the TPZ and is outside of the SRZ. Detailed root investigation works should not be required and the loss of root zone compensated for elsewhere and contiguous with the TPZ.
  - A major encroachment is greater than 10% of the area of the TPZ or is inside the SRZ. Where a major encroachment exists the project arborist must demonstrate that the tree would remain viable. The area lost should be compensated for elsewhere and contiguous with the TPZ. Major encroachments may require detailed root investigation works to be undertaken.

# 3 Impacts of the Proposed Works

#### 3.1 General

- 3.1.1 A total of 11 trees were assessed as part of this report. Individual tree details and data captured during the on-site inspection has been extracted from the Preliminary Tree Assessment report and may be found as **Appendix 1** Tree Assessment Schedule. Tree specific development impacts and control measures are provided in **Appendix 2**.
- 3.1.2 Trees located within the Bible Garden (LOT2 of DP1086858) are clear of development encroachments. Their root systems are not considered to encroach within the subject site due to existing landscape features and level changes.
- 3.1.3 Tree 1 is located within the Bible Gardens at the street entry to the site. Its TPZ is free from development encroachments.
- 3.1.4 Tree 2 consists of a mixed planting along the western edge of the existing driveway. The TPZ's of these trees are free from development encroachments.
- 3.1.5 Tree 3 is located adjacent the western side of the entry driveway. Its TPZ is free from development encroachments.
- 3.1.6 Tree 4 is located adjacent the western side of the entry driveway. Its TPZ is free from development encroachments.
- 3.1.7 The TPZ's of trees 5, 6 and 7 are free from development encroachments due to their position on the rocky outcrop.
- 3.1.8 Tree 8 is located within the footprint of the residential entry and lift access as indicated on drawing DA011. As such, the tree cannot be retained under the current design.
- 3.1.9 The TPZ's of trees 9 and 10 are free from development encroachments. Their root systems are considered to be contained within the terraced garden bed areas of the Bible Garden.
- 3.1.10 Tree 11 is located within the footprint of the ground floor ensuite bathroom as indicated on drawing DA006. As such, the tree cannot be retained under the current design.
- 3.1.11 Demolition works are not expected to have any impact upon trees retained within the site.
- 3.1.12 **Appendix 3** shows the proposed development with respect to the protection zones of the site's trees.

#### 3.2 Trees that shall require removal

5.2.1 Trees 8 and 11 are located within the development footprint and shall require removal. Tree 11 is regarded as an exempt tree species under local tree preservation conditions.

#### 3.3 Trees that can be retained

5.3.1 Trees 1, 2, 3, 4, 5, 6, 7, 9 and 10 can be retained throughout the development process.

#### 3.4 Tree pruning works

5.4.1 No tree pruning works were identified as being required as part of the proposed development.

### 4 Site Specific Tree Protection

- 6.1 Prior to the commencement of any construction works a project arborist is to be appointed. The project arborist is to advise on, monitor, inspect and ensure compliance where trees are retained within and where required adjacent to the site. Any work within a designated tree protection zone requires authorisation from the project arborist.
- 6.2 Prior to demolition or construction works, identified tree removals are to be undertaken. The removal of trees 8 and 11 is to be undertaken by suitably qualified tree workers (minimum AQF level 3 or equivalent) and in accordance with Safe Work Australia's Guide to Managing Risks of Tree Trimming and Removal Works. All appropriate approvals and consents are to be obtained prior to tree removal works commencing.
- 6.3 It is understood that the ability to establish a tree protection zone, to its fullest extent, may be difficult and impractical due to physical site restrictions and the need for a workable area. It is recommended that the protection measures are established under consultation between the property owner, construction contractor and project arborist. Tree protection measures may be altered and adjusted under guidance of the project arborist as construction works progress. Where encroachments through or over a tree protection zone are required appropriate ground protection measures are to be implemented.
- 6.4 Trees 3 and 4 are to be protected through the installation of protective trunk battens. Trunk protection is installed by first wrapping the stem of the tree in hessian or like material then strapping timber battens over the top. It is recommended that timber battens with the

dimensions of length 2000mm, width 75mm and depth 50mm are used. The battens are not to be directly screwed or nailed into the tree.

- 6.5 The health and condition of trees retained on the site and within the Bible Garden is to be monitored throughout the duration of construction works by the project arborist. It is recommended that monthly visits are undertaken by the project arborist. All visits are to be documented by the project arborist with a copy of any reporting provided to the construction contractor.
- 6.6 Any discernible change in the characteristics of any retained tree throughout the construction period is to be referred to the project arborist and an inspection undertaken. These changes can include, but are not limited to:
  - A change in foliage colour and or density
  - Dieback or death of branches or areas of the tree canopy
  - Occurrence of branch failure
  - Infestation by pest species

# Appendix 1: Tree Assessment Schedule

Tree No	Botanical Name Common Name	Height (m)	canopy Spread (m)	DBH (mm)	DAB (mm)	Age Class	Vigour	Condition	SULE	Landscape Significance	E Retention Value	B TPZ (m)	srz (m)	Tree Characteristics
1	<i>Malus</i> sp (Apple Tree)	1-5	3x3	240	270	М		G	M(b)	н	н	2.88	1.91	Seasonal loss of leaves prevents assessment of tree vigour.
2	Mixed Screening Hedge	1-5	1x1	180	200	м	N	G	M(b)	M-L	M-H	2.16	1.68	Mixe4d screen planting of <i>Acmena smithii</i> and <i>Callistemion</i> sp.
3	Washingtonia robusta (Mexican Palm)	15-20	2x2	300	800	М	N	G	M(b)	Н	н	3.6	3.01	One specimen-two trunks
4	Corymbia gummifera (Red Blodwood)	10-15	4x4	290	400	М		G	M(b)	н	Н	3.48	2.45	Wound at base of trunk on western side. Wound wood development evident.
5	Corymbia gummifera (Red Blodwood)	10-15	3x3	230	300	М	N	G	M(b)	н	Н	2.76	2	Previous wound (potential ring barking). Wound wood has developed, epicormic shoots evident in canopy.
6	Angophora costata subsp costata (Smooth-barked Apple)	10-15	4x4	400	500	М	N	G	M(b)	н	н	4.8	2.47	Minimal deadwood and epicormic production.
7	Ficus rubiginosa (Port Jackson Fig)	5-10	6x6	400	500	М	N	G	M(b)	н	M	4.8	2.47	Epicormic shoots possibly in response to topping pruning method.
8	Washingtonia robusta (Mexican Palm)	10-15	1x1	300	420	М	N	G	M(b)	Н	М	3.6	2.3	Growing within rock rubble in contained garden bed.
9	Washingtonia robusta (Mexican Palm)	10-15	1x1	300	400	М	N	G	M(b)	M-H	M-H	3.6	2.25	
10	Seratonis Siliqua (Carob)	1-5	2x2	220	300	м	N	G	M(b)	Н	н	2.64	2	In contained garden bed.
11	Brachichyton acerifolius (Illawarra Flame Tree)	5-10	2x2	350	400	М	N	L	S(b)	L	L-R	4.08	2.41	Previous pruning on trunk, tree showing signs of defoliation.

# Appendix 2: Development Impacts & Controls

	Botanical name			Retain or	
Tree No	Common name	Development Impacts	Controls	<b>Remove Tree</b>	
1	Malus sp (Apple Tree)	TPZ free from development encroachments. Root system of tree likely to be restricted to contained and terraced areas of garden beds within the Bible Garden.	No controls required, monitor tree health and condition throughout development process. Monitor site access requirements along driveway.	Retain	
2	Mixed Screening Hedge	TPZ free from development encroachments.	No controls required, monitor tree health and condition throughout development process. Monitor site access requirements along driveway.	Retain	
3	Washingtonia robusta (Mexican Palm)	TPZ free from development encroachments.	No controls required, monitor tree health and condition throughout development process. Install trunk protection battening around trunk to prevent potential damage from vehicle access along driveway.	Retain	
4	Corymbia gummifera (Red Bloodwood)	TPZ free from development encroachments.	No controls required, monitor tree health and condition throughout development process. Install trunk protection battening around trunk to prevent potential damage from vehicle access along driveway.	Retain	
5	Corymbia gummifera (Red Bloodwood)	TPZ free from development encroachments.	No controls required, monitor tree health and condition throughout development process. No building materials or stockpiling of spoil to be placed within the TPZ.	Retain	
6	Angophora costata subsp costata (Smooth-barked Apple)	TPZ free from development encroachments.	No controls required, monitor tree health and condition throughout development process. No building materials or stockpiling of spoil to be placed within the TPZ.	Retain	
7	Ficus rubiginosa (Port Jackson Fig)	TPZ free from development encroachments.	No controls required, monitor tree health and condition throughout development process. No building materials or stockpiling of spoil to be placed within the TPZ.	Retain	
8	Washingtonia robusta (Mexican Palm)	Tree is located within the footprint of the proposed entry stairs and lift access.	No controls required. Tree cannot be retained under current design.	Remove	
9	Washingtonia robusta (Mexican Palm)	TPZ free from development encroachments.	No controls required, monitor tree health and condition throughout development process.	Retain	
10	Seratonis Siliqua (Carob)	TPZ free from development encroachments.	No controls required, monitor tree health and condition throughout development process.	Retain	
11	Brachichyton acerifolius (Illawarra Flame Tree)	Tree located within footprint of ground floor ensuite bathroom.	No controls required. Tree cannot be retained under current design.	Remove	

