



# *Arboricultural Impact Assessment Report*

## 37 Henderson Drive

## Lennox Head

***Prepared for: Ballina Shire Council***

***Prepared on: 29 April 2020***

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## Introduction

This report was prepared for Ballina Shire Council to comply with the tree removals notification process contained in the BSC Management of Urban Vegetation Policy. Trees listed in the BSC Significant Tree Register require an arboricultural assessment and notification prior to removal. This report and assessment pertains to a single Wallum Banksia on council land in front of 37 Henderson drive, Lennox Head.

## Methodology

A Visual Tree Assessment was conducted from the ground only and no invasive or diagnostic techniques were used when examining the tree. VTA observes the external indications given by the tree at the time of inspection to determine health and the structural integrity of the tree.

A tangent height gauge was used to measure tree height. Diameter at Breast Height (DBH) and other site measurements were taken using a double sided 10m diameter/measuring tape.

DBH was measured at the narrowest point below the whorls or fork in the trunk.

SRZ was calculated by measuring the trunks diameter immediately above ground level.

TPZ and SRZ radius was calculated using the arborlogix.com.au calculator.

## Observations

### Tree Schedule Henderson Drive

Tree No.	Species	Common name	DBH	Height	Canopy Spread	Health	Age	TPZ	SRZ	SULE
1	Banksia aemula	Wallum Banksia	480mm	5m	5m	Dead tree	Juvenile	5.8m	2.4m	4B

The tree is located in public road reserve to the east of the property and 2.5m from the curb. A second tree of the same species and age is located several meters to the south, both are presumed to have been planted at the same time. The subject tree suffered a limb failure in 2019 resulting in a tear of the lower trunk of the tree. A wound 700mm x 400mm across and 150mm deep. This constitutes just under a quarter of the trunks circumference (150mm) The tree is now dead.

## Discussion

The tree is listed on the Ballina Shire Council Significant Tree Register for its aesthetic values and natural/biodiversity values. The tree was subject to inspection 06 December 2019, after it began to exhibit signs of cessation in the form of heavy seeding. Trees are known to flower heavily and produce excessive seed as an indication of stress and decline. At the time of the inspection the tree appeared to be coping. However the extent of the wounding compromised the trees biological systems and its ability to transfer water and nutrients was reduced by an estimated 25%, this coupled with recent drought conditions caused stress within the tree leading to rapid dieback and decline and ultimately tree death.

## Recommendations

The tree represents a level of risk to passers-by and to cars parking on the street beneath. The tree requires removal in accordance with Ballina Shire Council Management of Urban Vegetation Policy (Dead Trees) the policy requires that tree removal signage be placed upon the tree prior to any works taking place and an additional public notification process should also precede removal. This report forms part of the notification process.

In accordance with council policy the removal must be approved under delegated authority of council and the tree removed by suitably qualified contractors or council employees.

The tree is not suspected to have suffered infection from any fungal pathogens and green waste can be wood chipped and removed from the site.

## Conclusion

Banksia Aemula is common to the area and usually found in coastal heath on sandy soils. The trees may not have been planted in a suitable situation for optimum health. Banksia are a brittle species and prone to limb failure and are best planted in a sheltered site.

The remaining tree appears to be coping and was assessed to be in good health.

## Appendix 1.0 Tree Location



## Appendix 2.0 Tree Images

