



CRAIG WEBB
Consultant Arborist

ARBORICULTURAL MEMO

Date: 2 September 2025
To: David Hay – Osborne Hay Limited
From: Craig Webb
Subject: **Arboricultural impact assessment for a proposed community housing development at 1695 Pohuehue Road, Warkworth**

Auckland Council have requested further information relating to a proposal to locate 12 transportable dwellings within the site at 1695 Pohuehue Road, Warkworth. In relation to ecological and arboricultural matters, the request for further information states:

12. *The Future Urban Zone is identified as a transitional zone, where, until such time that is zoned for urban purposes, land is to be used and developed to achieve the objectives of the Rural – Rural Production Zone. Therefore, under Chapter E15 of the AUP(OP), the relevant rule relating to vegetation removal and alteration is E15.4.1(A17), which has a 10m streams setback and not 20m. Accordingly, please clarify if any vegetation removal is proposed within 10m of any streams. If any vegetation removal within this setback area is proposed, please identify the area in m² and demonstrate how associated adverse effects are being avoided, remedied, or mitigated.*
13. *Notwithstanding question 12, seven pine trees are proposed to be removed within the riparian margin of a rural stream, which provide habitat, shading and facilitate water infiltration within the riparian margin. There is limited information regarding the stature of these seven pine trees and their alteration and removal requires resource consent under the rules within chapter E15 of the AUP(OP) as restricted discretionary activity as has been applied for. Please address this including the provision of an arboricultural assessment that address the criteria listed in E15.8 of the AUP(OP) and provides further information (such as tree height, maturity, canopy coverage etc.) to justify that the loss of the subject pine trees will be acceptable with respect to their function within the riparian margin of the subject rural stream.*
14. *As these pine trees provide ecosystem functions within the riparian margin, please demonstrate that their loss will be adequately mitigated. A replanting proposal within the riparian margin with native trees would likely be considered appropriate.*
15. *It is noted in the submitted AEE that the removal of three street trees (pittosporums) on Valerie Close (to form the new driveway into the site) is proposed. Please provide more detail in respect of the size of these trees to demonstrate that their removal is a permitted activity under Chapter E17 of the AUP(OP). Please note that removal of street trees over 4m high or greater than 400mm in girth requires resource consent under Rule E17.4.1(A10) of the AUP(OP) as a restricted discretionary activity.*

I carried out an arboricultural survey of the site on 20 August 2025. The focus of my field work was a stand of stone pine (*Pinus pinea*) identified to be within a riparian margin, a group of native trees also with the riparian margin and a group of trees in the roadside berm of Valerie Close.

Figure 1 shows the location of thirteen trees that I surveyed and recorded details of.

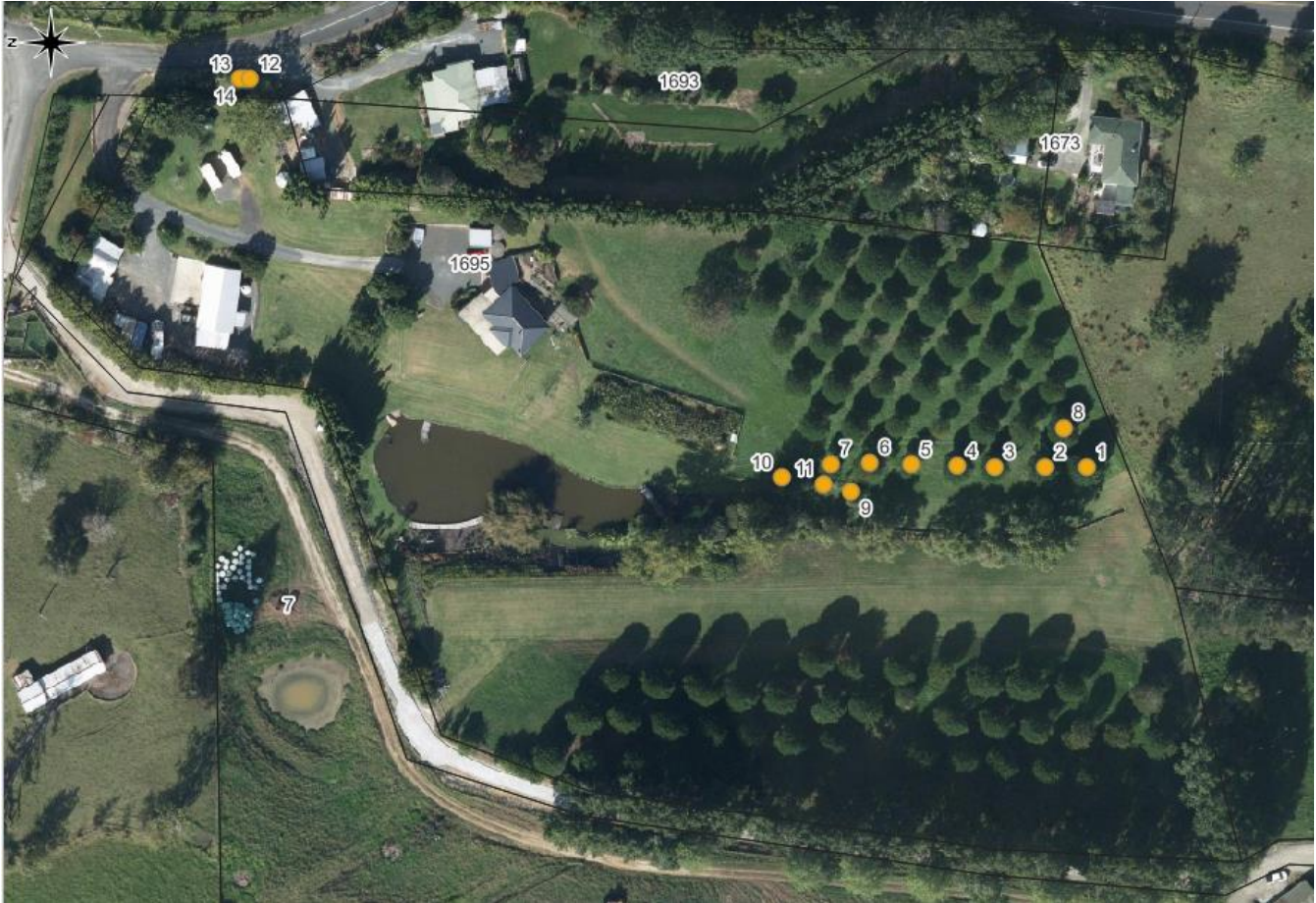


Figure 1 –The location of 13 surveyed trees at 1685 Pohuehue Road on an aerial photograph (Auckland Council GeoMaps)

Trees 1-13 include twelve individually listed trees and one tree group (Tree 11). The trees' species and dimensions and general comments relating to the trees and tree group are provided in Table 1 below.

Table 1 – Tree details for the 12 trees and one tree group identified within the site.

Tree No.	Species		Dimensions			comments
	botanical name	common name	height (m)	trunk diameter (mm)	crown spread (m)	
1-8	<i>Pinus pinea</i>	stone pine	5-8	up to 650	3-5	Located within 20 m of stormwater channel. Not located with 10 m of stormwater channel. Mature trees, planted as an orchard (pine nuts). Variable form, generally good health.
9	<i>Dacrycarpus dacrydioides</i>	kahikatea	9.8	278	3	Located within 10 m of stormwater channel. Protected root zone = 4.9 m (half height). Good form and health.
10 (group)	<i>Ackama rosifolia</i> , <i>Euonymus japonicus</i> , <i>Myrsine australis</i> , <i>Pittosporum tenuifolium</i> , <i>Podocarpus totara</i> , <i>Sophora tetraptera</i>	makamaka, Japanese spindle tree, mapou, kohuhu, totara, kowhai	up to 8	-	-	Located within 10 m of stormwater channel. Array of native species including rare makamaka and one pest plant (<i>Euonymous</i>). Variable form and health.
11	<i>Dacrycarpus dacrydioides</i>	kahikatea	9.6	310	3	Located within 10 m of stormwater channel. Protected root zone = 4.8 m (half height). Good form and health.
12	<i>Pittosporum eugenoides</i>	tarata	5.3	195	2	Very poor health, suppressed.
13	<i>Pittosporum eugenoides</i>	tarata	5.1	132	2	Very poor health, suppressed.
14	<i>Coprosma robusta</i>	karamu	5.0	-	2	Self-seeded within row of tarata. Suppressed.

Seven stone pine trees are within 20 m of the stormwater channel. These trees are not of substantial height or crown spread, such that their provision of shade to the waterway and habitat values is negligible.

More importantly, the 20 m margin of the stream contains various trees, including trees 9-11, that do provide shade and ecosystem services values. In particular, two kahikatea trees are positioned in their ideal habitat and will thrive in this location in the margin of a stream. These trees, along with other vegetation growing on the stream bank must be protected from harm during site development works. To this end, I recommend that a tree protection fence is erected as shown on the tree protection plan appended to this memo.

Within the road reserve of Valerie Close, outside the frontage of the property is a row of tarata, or lemonwood (*Pittosporum eugenoides*) The group contains dead trees and trees that are in poor condition. Several of the trees, including dead trees and Trees 11, 12 and 13 require removal to establish an entrance to the development site. Due to the poor condition of the trees, their removal results in negligible impacts on tree canopy cover.

In conclusion, removal of trees within 20 m of the stormwater channel is limited to seven stone pine. Native trees that provide habitat and shading within the riparian margin should be retained and protected.

The pine trees to be removed do not provide ecosystem functions within the riparian margin, so their loss requires no mitigation. Retaining and protecting native trees within 20 metres of the stream and all stream side trees is adequate mitigation in my opinion.

The removal of three street trees on Valerie Close will result in negligible impacts in terms of tree canopy cover loss. The removal of trees in roads over 4 m in height requires resource consent as a restricted discretionary activity.

Please don't hesitate to contact me if there are any queries relating to this memo.



Craig Webb

Director / Consultant Arborist

CWCA Limited

