

Ryan Fury

From: Catriona Mackenzie <cat@urbanforestryaustralia.com.au>
Sent: Tuesday, 29 May 2012 7:30 AM
To: David Gazzoli
Cc: Ryan Fury
Subject: Further information.

Dear David,

I was on site again this morning to go over tree issues with Ryan in regards to those raised in the email from Geoff Bird on 24 May 2012 (at 1.02pm).

I provide the following comments and recommendations.

- H18-158 – My main concern with this tree is the evidence pointing to the likely existence of an internal column of decay in the trunk - from the cavity in the southside lower trunk, the depressed vertical section arising from this cavity area and extending up to the decayed trunk section to the southwest side of the stem. The presence of extensive reaction wood to the east side of the lower stem indicates the tree has grown this area to 'shore up' a weakened stem. The large scaffold branches and crown above the stem appear to be sound, although my concern is with the weight of these parts bearing down on a structurally weakened trunk. This feature is akin to placing a heavy brick on top of a section of hosepipe – there is considerable risk of the stem buckling under the weight of the parts above it.
The extent of decay and its impact on stem wood strength can be measured by diagnostic decay testing (e.g. Resistograph® or Sonic Tomograph testing), although it needs to be understood this testing does not treat the disease and only provides information to determine whether the tree must be removed entirely or can be retained for a specified period and subject to routine re-testing, pruning, etc.
Given the obvious extent of decay affecting the lower stem right up to the top of the stem, it is my opinion diagnostic testing is not warranted and that substantial removal of the crown is the only way to remove the weight on this weakened stem. It is the tree's poor condition and location that increases the risk to the golf club's staff and players, and that despite any testing, the tree needs to undergo some reduction of the weight above the obviously compromised stem.
The tree should have the crown reduced at, or within 1m of the stem bifurcation to significantly reduce the weight issue. Any subsequent re-growth should be managed according to arboricultural assessment and advice.
- H18-159 – this tree is to be retained. An aerial inspection should be undertaken to inspect the attachments of branches where some decay is possible, but unable to be assessed from ground level. The aerial inspection may identify branches that may need to be reduced or removed and I would expect any future pruning would be subject to Council determination under a Request for Tree Works Approval. As the tree is a mature specimen in a regularly used area, it should be subject to arboricultural assessment every year and managed in accordance with recommended measures to minimise tree risk.
- I've reviewed the Amended Grading Plan, dated May 2012, forward by Cashmore Design, and note the Tree Protection Zone ("TPZ") offsets applied to H2-64 (13m radius) and H2-63 (14m radius), are generous and greater than the 11m nominated in the tree schedule by Australian Tree Consultants.
- Grading is not proposed within the TPZ of the trees, and I am satisfied the tree's can be adequately protected during construction of the new green.

Kind regards

Catriona Mackenzie
Principal Consulting Arboriculturist



To – Geoff Bird, Kuringai Council

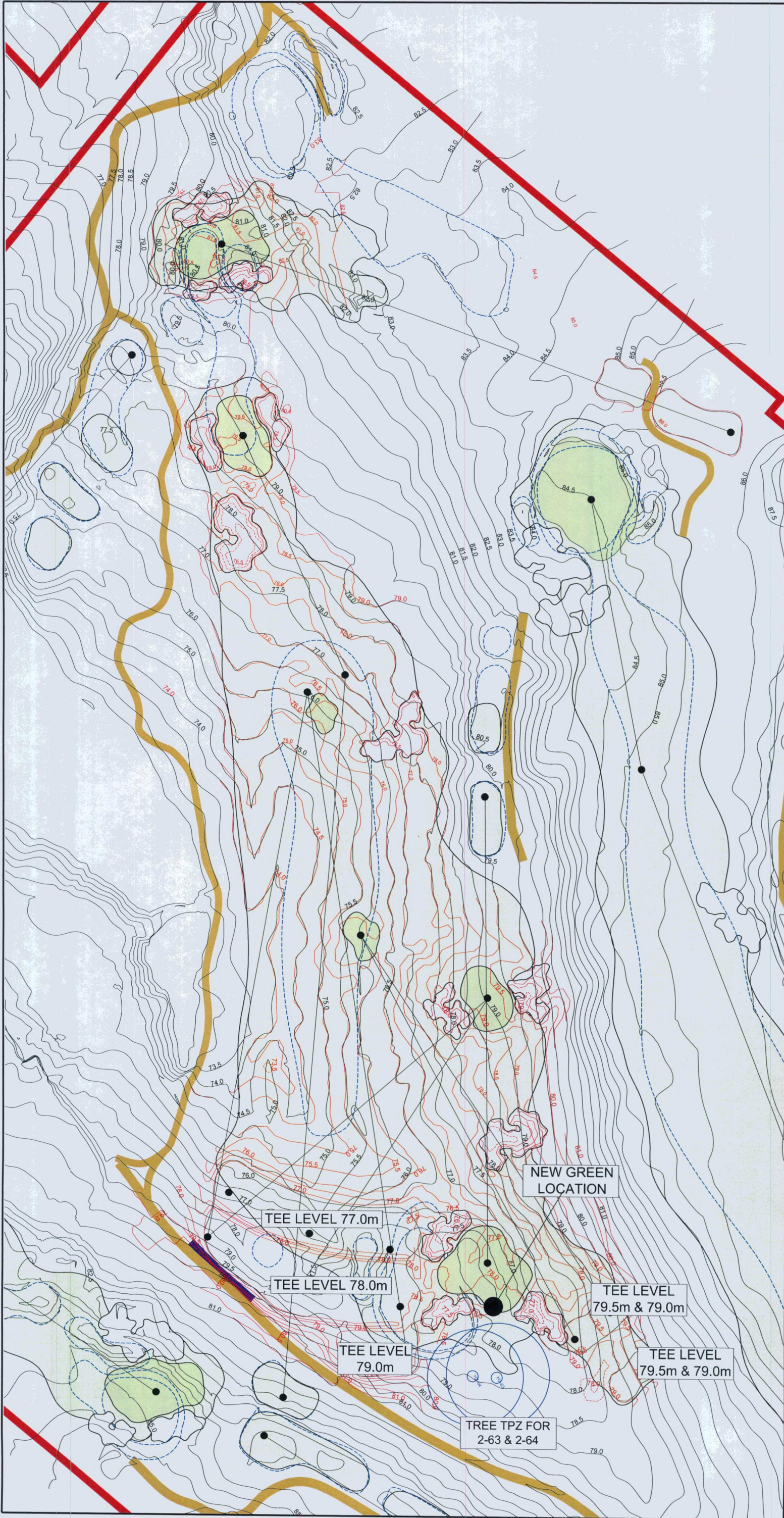
Re – Trimming of tree H18:158

28th May 2012

Following the recent resubmission of additional documentation for the Killara Golf club D.A. 0147/11 the landscape officer requested some additional clarification on four trees and the landscape planting plans in an email dated 24th May 2012. This letter relates to tree H18: 158 and is to be viewed in conjunction with the Arborist, Catriona Mackenzie's updated information dated Tuesday 29th May 2012 which is attached. Below is the photo of the tree and the crown reduction while maintaining the trunk with any cavities as fauna habitat.



Ryan Fury
Grounds Manager
Killara Golf Club



- Notes:**
1. Set out of all golf features to be confirmed by Architect on site.
 2. All final levels and grades to be approved by Architect on site.
 3. All levels indicated are finished design levels. Allowance should be made for topsoil replacement and imported materials for green, tee, bunker and path construction.

Legend:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED HOLLOW
- EXISTING GOLF COURSE
- GOLF HOLE
- CART PATH
- PROPOSED RETAINING WALL

 **Killara Golf Club**

**Practice Fairway
Grading Plan**

Black	N/A	N/A
Blue	N/A	N/A
White	N/A	N/A
Red	N/A	N/A

Date: May 2012 Issue: Final with 2-63 / 2-64

NORTH



5 0 5 10 15 20 METRES

Scale 1:500 @ A1

Drawing No. **G.HPF**

