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Arboricultural Consultant: Kim Gifford  
11 Oakview, Selsey Road, Hunston, Chichester PO20 1AU.  
[kim@treetesting.com](mailto:kim@treetesting.com)  
07831488456

### **Tree Report / Summerland Grange.**

**1.1 Test dates:** 12<sup>th</sup> July 2022 by Mr. Kim Gifford, undertaken in the area of test and at the time of inspection.

**1.2 Method:** using Resistograph micro drill PD 400 Pro, in accordance with manufacturers manual. *Visual Tree inspection references, Principles of Tree Hazard Assessment and Management by David Lonsdale and The body language of trees by Claus Mattheck and Helge Breoer. The Arboricultural Association guidance note 7 tree surveys a guide to good practice. Lantra award Professional tree inspection.*

**1.3 Instruction:** I Kim Gifford Arboricultural Consultant (see profile page)

My brief is to carry out decay detection/assessment using the Resitograph PD.

The test will involve taking readings at an appropriate level determined by the requirements of the specimen defect. I am to make recommendations on the immediate and future management of the subject tree based on the test findings.

**1.4 Background:** I understand that there has been concerns about the safety of these specimen. As a result of this inspection, it was felt that further investigation was required to determine the extent of decay so that he could make an informed decision on the future management of the subject trees.

14<sup>th</sup> July 2022

### **1.5 Resistograph Tests Methodology.**

The test was conducted using an IML- RESI PD-Series. The IML Resistograph is used to establish the strength of wood, without the need for destructive testing. It consists of a hand-portable, electrically powered drill, the auger end of which is 'spade-bit' shaped and extremely narrow. As the subject tree is drilled sound wood being denser than decayed wood offers greater resistance to the drill bit as it passes through the wood. This resistance is recorded electronically across the radius of the section being tested. The depth of drilling is dependent on the drill length and dimension of the tree part being tested. The measurement depth is recorded in centimetres while the amplitude (resistance) reading is given as a percentage across a range of 0 to 100%. The readings allow the Arboriculturist to assess the internal condition of the subject tree. As with all diagnostic tools, considerable experience in use and interpretation of data is required to ensure that an accurate conclusion and or recommendation is made.

Final analysis of the graph has been undertaken to see the following recommendations below. Note: All recommended works should be undertaken in accordance with British Standard Institutes Recommendations for Tree Works B.S.3998:2010

# KG HC1



Inspection of 14 July 2022

ID: KG HC1

Location

Species

Modified

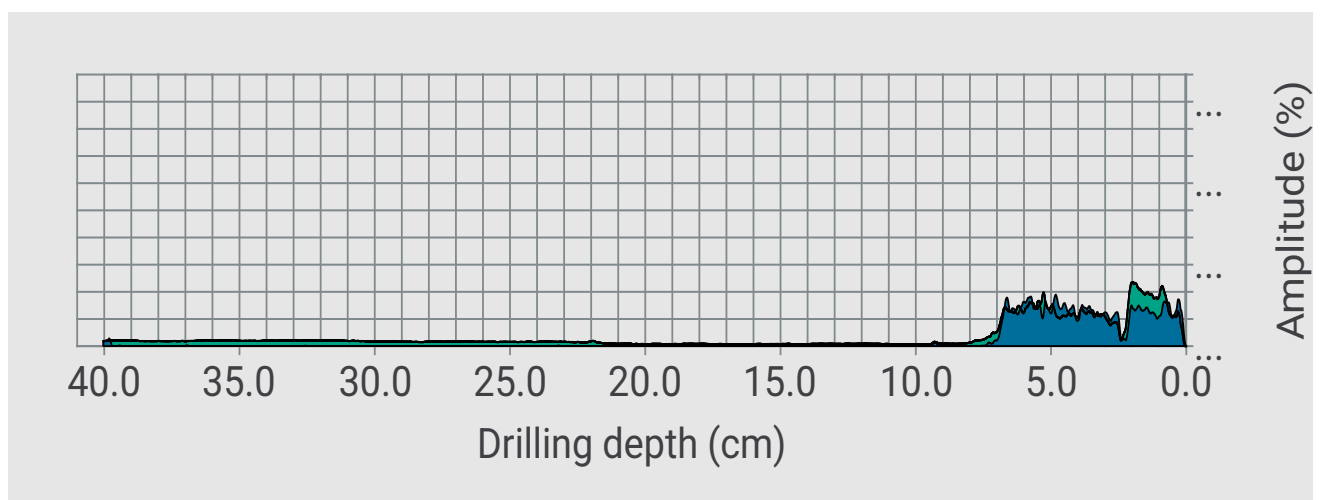
14 July 2022

Measurements of 12 July 2022

## Measurement 14 at 14:06:2 ID: KG HC1

|                |                |         |          |
|----------------|----------------|---------|----------|
| Drilling Depth | Drilling Speed | Tilt    | Diameter |
| 40.04 cm       | 2,500rpm       | -90.0 ° | 80.0     |
| Feed Speed     | Needle State   | Offset  |          |
| 50.00 cm/min   | ---            | 57/255  |          |

■ Feed ■ Drill



**1.6 Resistograph Micro drill: At 200cms – Horse Chestnut (Aesculus hippocastanum) by gate.**

**1. Test KG HC1 – Results Southside –very low reading.**

**Indicating extensive decay. (Crown previously collapsed)**

**Recommendation:**

**Complete removal required on the grounds of health and safety. As soon as possible.**

Kim Gifford

Picus and Resistograph Testing Service

07831488456

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*Figure 1 Extensive decay at 2.5m*

14<sup>th</sup> July 2022

### **Consultant Mr Kim Gifford: Profile**

Prior to starting GTS Kim Gifford completed a 4-year apprenticeship in 1972 with the Royal Parks at Hampton Court Palace acquired City and Guilds Horticulture and Arboriculture. In addition to these qualifications Kim Gifford continued his professional development by attending seminars, conferences, studying for the professional diploma and foundation degree in Arboriculture. Further work experience during pre-business period included sub-contracting for Arb. Companies. Work as a lead Arborist for London Borough of Ealing and Arborist in Berlin Germany.

Kim Gifford t/a Gifford Tree Service started trading as a sole trader in 1980 and in 1985 became a partnership. The company specialises in all aspects of Arboriculture. From 2007 Kim Gifford now again, trades as a sole trader in his own right. In 1988 Kim Gifford became an approved contractor with Arboricultural Association after a comprehensive assessment and reassessments in 2002/2007 Kim Gifford served on committees of the Arboricultural Association for 10 years and became the National Chairman of the Arboricultural Association in 2001. Kim Gifford is now an honorary member of the Arboricultural Association.

Kim Gifford personally undertakes Picus sonic decay tests for local authorities and other Arboricultural contractors all over the Southern area of England. Kim Gifford owns the Picus equipment treetesting.com for 13 years and completed over 3000 tests, so he has considerable experience in the analysis of the tomographic images. He provides this service to compliment other consultant reports, this is combined with my 42 years' knowledge in Arboriculture.

The whole Picus system has been updated and maintained to the recent Picus manufactures improvements.

Kim Gifford has undertaken many Tree Surveys including Mortgage reports and BS5837 surveys to meet planning authorities' requirements during development proposals plus Tree Preservation applications and planning inspectorate appeals.

Kim Gifford was certificated recently by Lantra training awards with Professional Tree Inspection Certificate 30th November 2013 and Arboricultural Association Certificate BS5837 – Advanced Tree Assessment for Planning 4th May 2016.

Kim Gifford also provides quotations for recommended works, Risk Methods Statements, Health & Safety Policies, Site Specific procedures operation supervision and management services.