



FURTHER INVESTIGATION REPORT:

34 Kelly Street
London
NW1 8PH

REPORT PREPARED FOR:

Mr C White

34 Kelly Street
London
NW1 8PH

REPORT PREPARED BY

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MSc ARB MICFor FArbor A MRICS C Env

Ref: WHT_34KLS_PCS_01

Date: 27th July 2015

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Site Details:

Site Address: 34 Kelly Street, London NW1 8PH.

Client: Mr C White

Surveyor: Vincent Caine

Date of Inspection: 7th July 2015

Instruction:

Carry out decay detection on the main stem of 1 Lime tree.

Tree:

Species: Common Lime (*Tilia x europea*)

Height: 17m **Diameter at 1.5m above ground level (agl)** 690mm

General Observations:

The tree is situated in the front garden on the northern boundary, with a footpath 1m north. The house is 4m west of the tree and the neighbouring property, 36 Kelly Street, 9m east. The tree is on a raised area 50cm above ground level (agl). There is very dense epicormic growth around the base, some of which was removed for the test, with the upper stem cleared of epicormic growth. There is a cavity on the stem to the south side, at 40cm agl, which measures 58cm high by 15cm across and 40cm deep. At 1m agl, the stem sounds hollow all the way around, to the tap of a nylon mallet. The stem narrows considerably at 4.5m and bifurcates at 6.5m agl, with ascending limbs north east and south west. There are multiple old pruning wounds in the crown. The crown appears normal with normal leaf size and distribution.

Resistograph Tests:

The Resistograph is a drilling instrument that probes the tree with a micro drill with a 3mm tip and a 1.5mm x 400mm shaft; this can penetrate to a depth of 400mm. As the probe advances, it measures the resistance to drilling encountered in the wood. Good healthy wood gives a high reading and poor dysfunctional wood or cavity gives a lower reading. This is depicted on a wax paper strip (see Appendix 1).

4 Resistograph readings were taken:

Direction	Height of Test	Result
West	40cm	Good wood to 23cm, cavity 23-40cm
North	50cm	Good wood 29cm, 29-40cm decay
East	50cm	Good wood to 15cm, decay to 20cm, cavity 20-40cm
South	120cm	Good wood to 6cm, remainder decay/cavity
East	120cm	Good wood to 10cm, remainder decay/cavity
West	120cm	Good wood to 11cm, remainder cavity
North	120cm	Good wood to 14cm, remainder cavity

Conclusion:

The Resistograph tests show that there is a cavity and decay, as can be seen at 40cm with the open cavity. The extent of the decay and cavity is far more at 120cm. This level of decay is high enough to affect the structural integrity of the tree and the target area is high.

Recommendations:

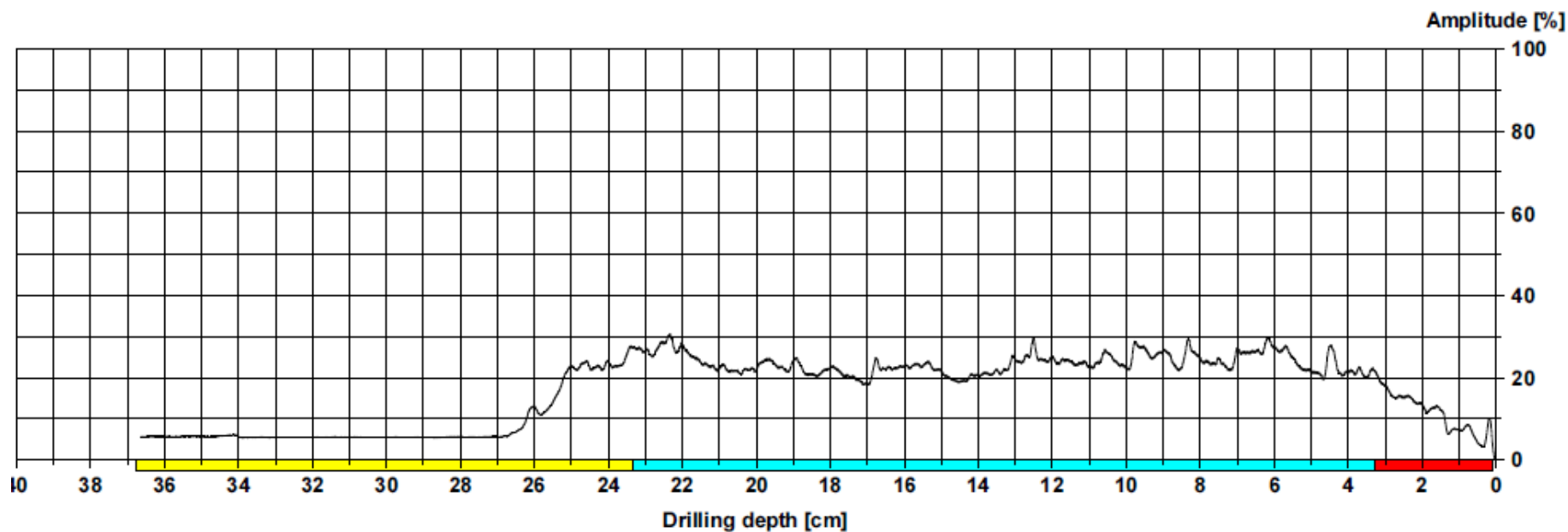
The tree should be felled as soon as practically possible.

All work to be carried out to BS3998(2010), tree work, by a fully qualified and insured arborist.

Appendix 1

Measuring / object data

Measurement no. : 11	Needle speed : 2500 r/min	Diameter : 69,0 cm
ID number : 34KELLY ST W40	Needle state : ---	Level : 40,0 cm
Drilling depth : 36,64 cm	Tilt : ---	Direction : West
Date : 07.07.2015	Offset : 90/287	Species : Lime
Time : 10:17:44	Avg. curve : off	Location : 34 Kelly St
Feed speed : 150 cm/min		Name :



Assessment

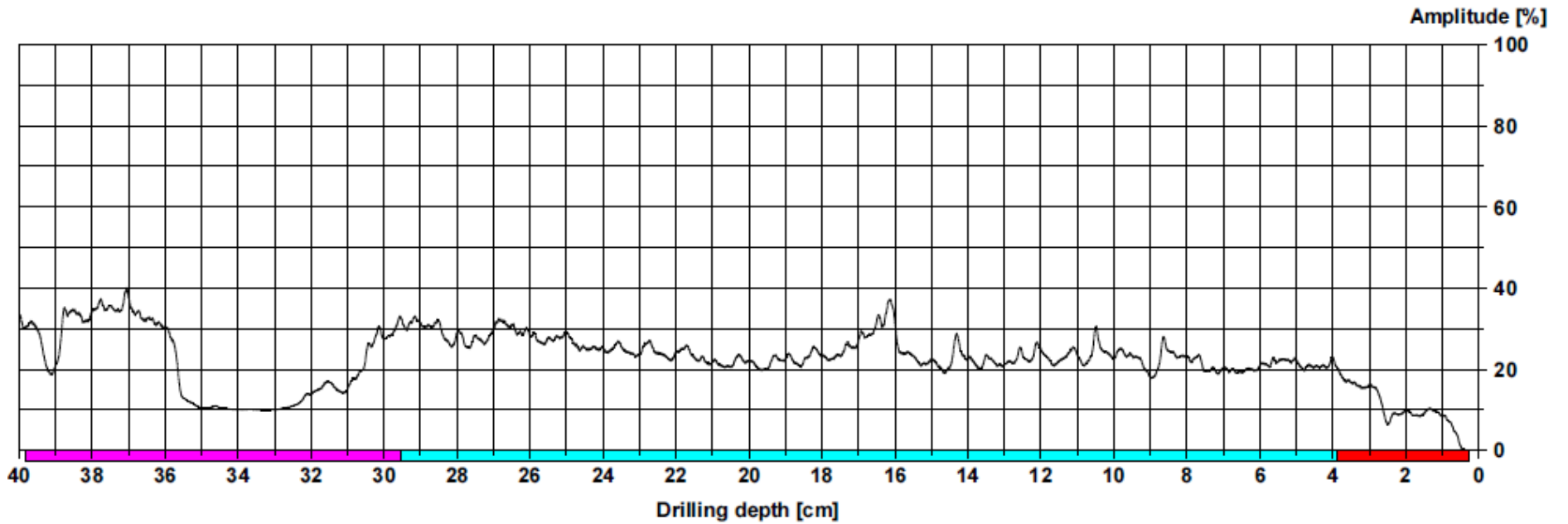
■	From 0,1 cm to 3,3 cm : Bark
■	From 3,3 cm to 23,3 cm : Good wood
■	From 23,3 cm to 36,8 cm : Cavity
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :

Comment

34KELLY STW40M011.rgp

Measuring / object data

Measurement no. : 12	Needle speed : 2500 r/min	Diameter : 69,0 cm
ID number : 34KELLY ST N50	Needle state : ---	Level : 50,0 cm
Drilling depth : 40,00 cm	Tilt : ---	Direction : North
Date : 07.07.2015	Offset : 84/291	Species : Lime
Time : 10:18:46	Avg. curve : off	Location : 34 Kelly St
Feed speed : 150 cm/min	Name :	



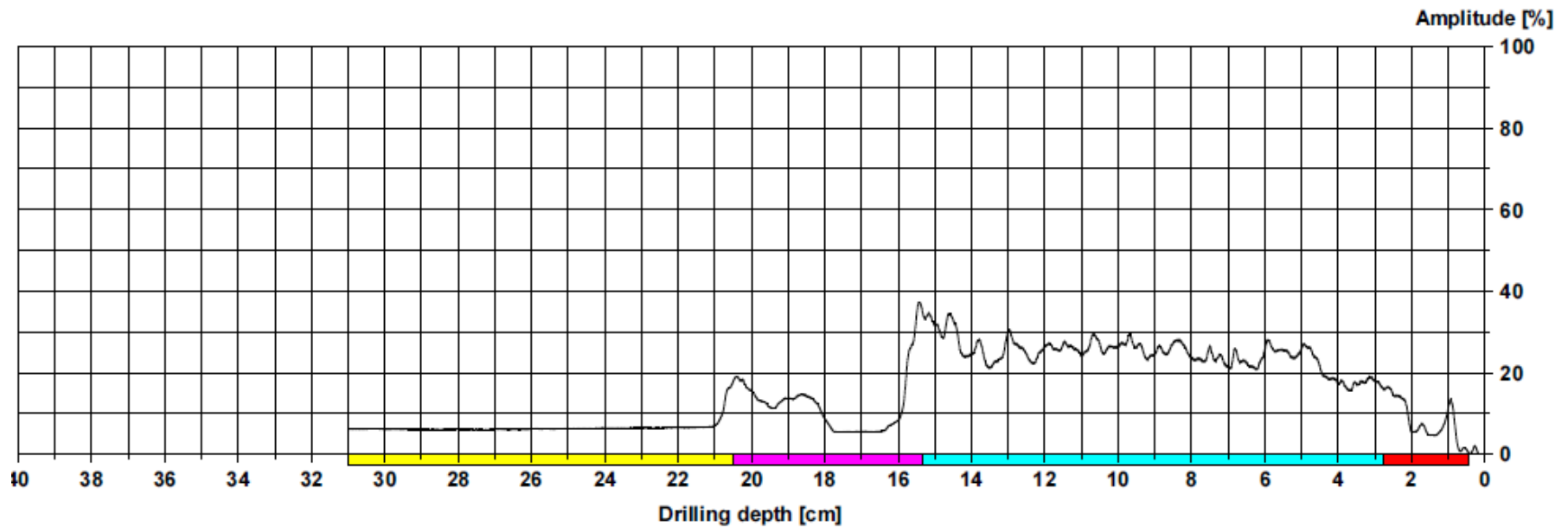
Assessment

■	From 0,3 cm to 3,9 cm : Bark
■	From 3,9 cm to 29,6 cm : Good wood
■	From 29,6 cm to 39,8 cm : Decay
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :

Comment

Measuring / object data

Measurement no. : 13	Needle speed : 2500 r/min	Diameter : 69,0 cm
ID number : 34KELLY ST E50	Needle state : --	Level : 50,0 cm
Drilling depth : 30,97 cm	Tilt : --	Direction : East
Date : 07.07.2015	Offset : 81/288	Species : Lime
Time : 10:20:20	Avg. curve : off	Location : 34 Kelly St
Feed speed : 150 cm/min	Name :	



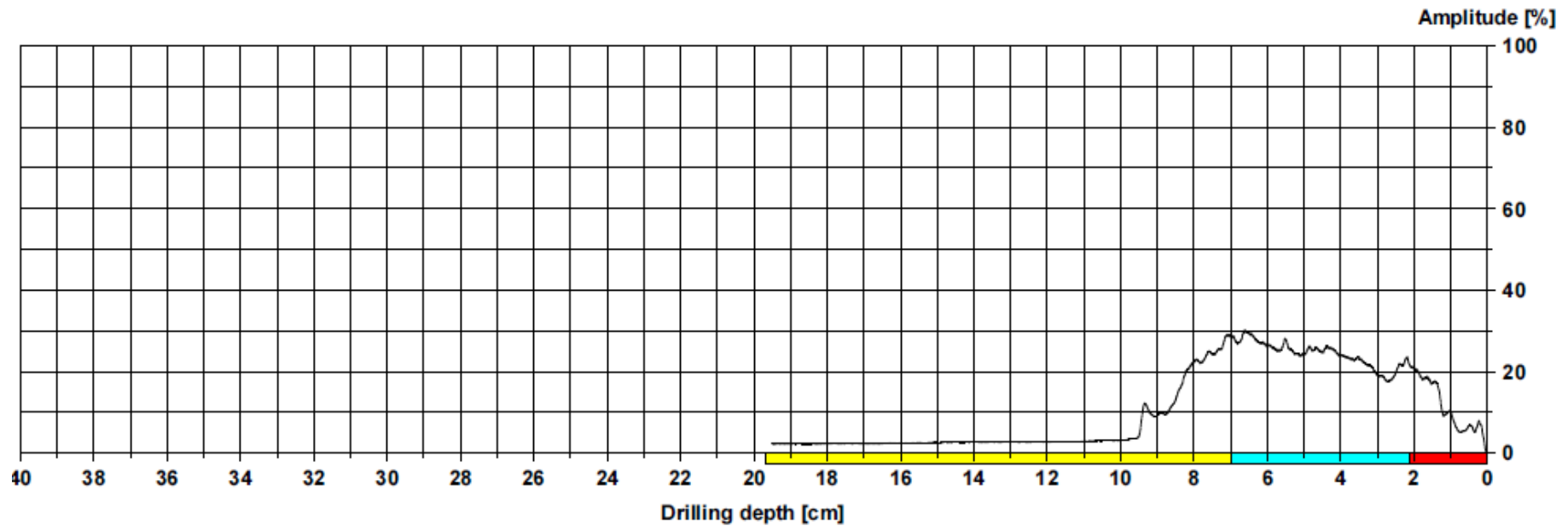
Assessment

■	From 0,4 cm to 2,8 cm : Bark
■	From 2,8 cm to 15,3 cm : Good wood
■	From 15,3 cm to 20,5 cm : Decay
■	From 20,5 cm to 31,0 cm : Cavity
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :

Comment

Measuring / object data

Measurement no. : 14	Needle speed : 2500 r/min	Diameter : 69,0 cm
ID number : 34KELLY ST S120	Needle state : --	Level : 120,0 cm
Drilling depth : 19,52 cm	Tilt : --	Direction : South
Date : 07.07.2015	Offset : 88/280	Species : Lime
Time : 10:21:20	Avg. curve : off	Location : 34 Kelly St
Feed speed : 150 cm/min		Name :



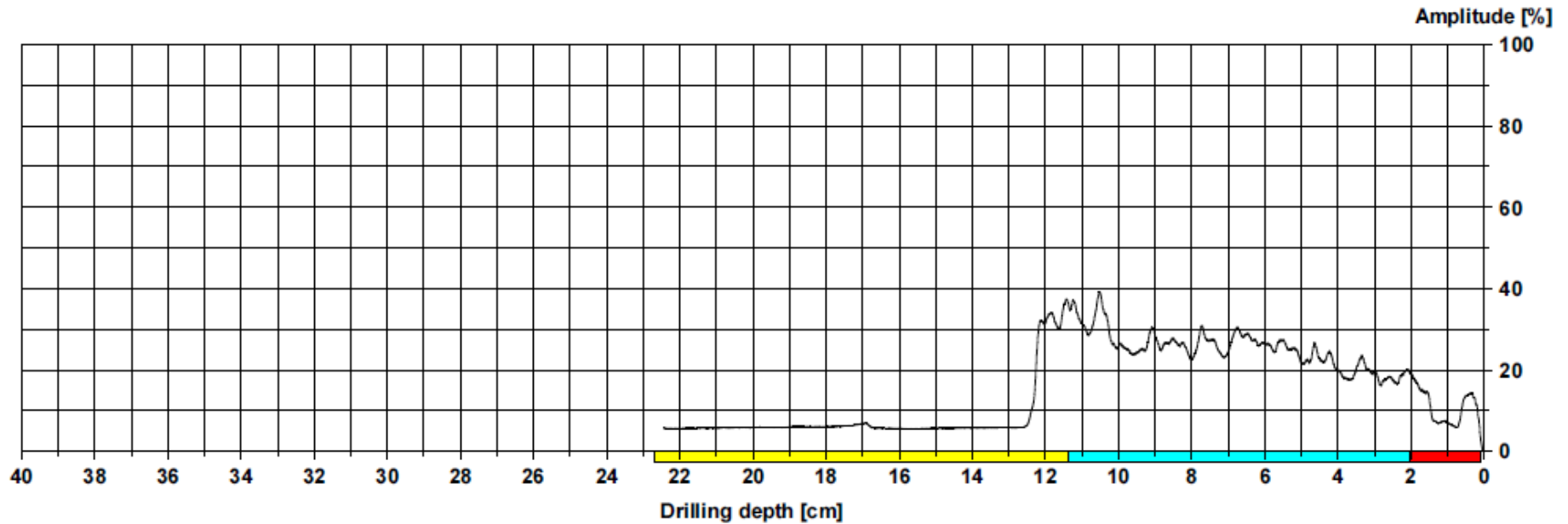
Assessment

■	From 0,0 cm to 2,1 cm : Bark
■	From 2,1 cm to 7,0 cm : Good wood
■	From 7,0 cm to 19,7 cm : Cavity
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :

Comment

Measuring / object data

Measurement no. : 15	Needle speed : 2500 r/min	Diameter : 69,0 cm
ID number : 34KELLY ST E120	Needle state : --	Level : 120,0 cm
Drilling depth : 22,44 cm	Tilt : --	Direction : East
Date : 07.07.2015	Offset : 88/281	Species : Lime
Time : 10:22:15	Avg. curve : off	Location : 34 Kelly St
Feed speed : 150 cm/min	Name :	



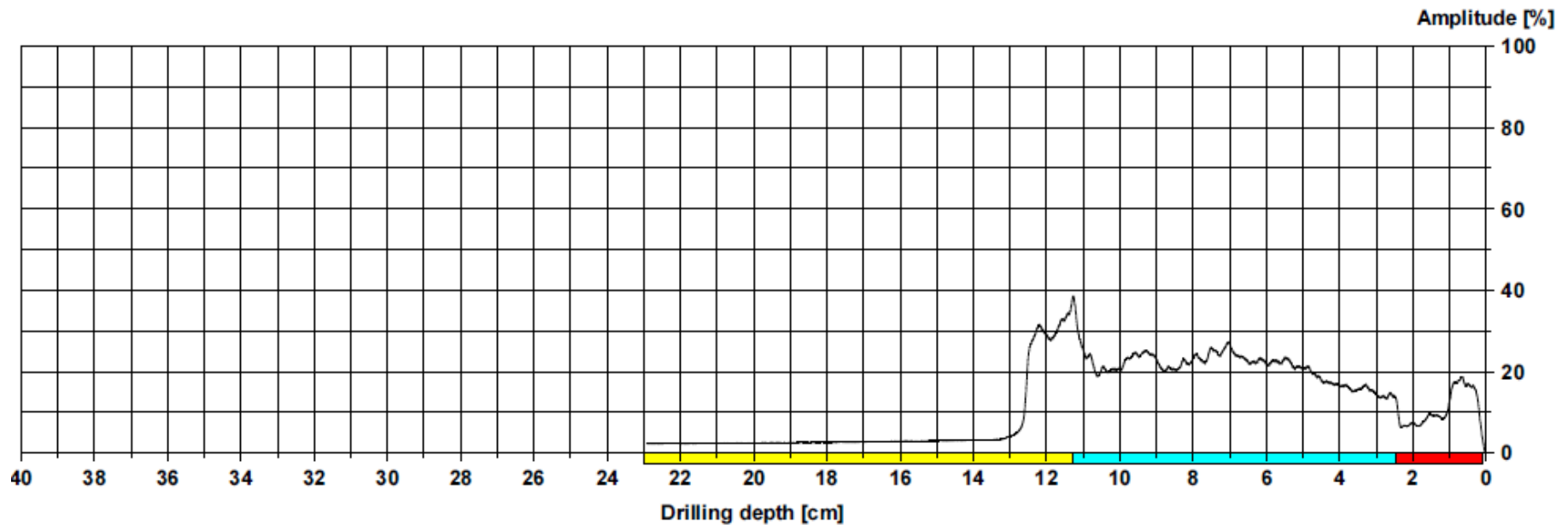
Assessment

■	From 0,1 cm to 2,0 cm : Bark
■	From 2,0 cm to 11,4 cm : Good wood
■	From 11,4 cm to 22,7 cm : Cavity
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :

Comment

Measuring / object data

Measurement no. : 16	Needle speed : 2500 r/min	Diameter : 69,0 cm
ID number : 34KELLY ST W120	Needle state : --	Level : 120,0 cm
Drilling depth : 22,91 cm	Tilt : --	Direction : West
Date : 07.07.2015	Offset : 88/278	Species : Lime
Time : 10:23:18	Avg. curve : off	Location : 34 Kelly St
Feed speed : 150 cm/min	Name :	



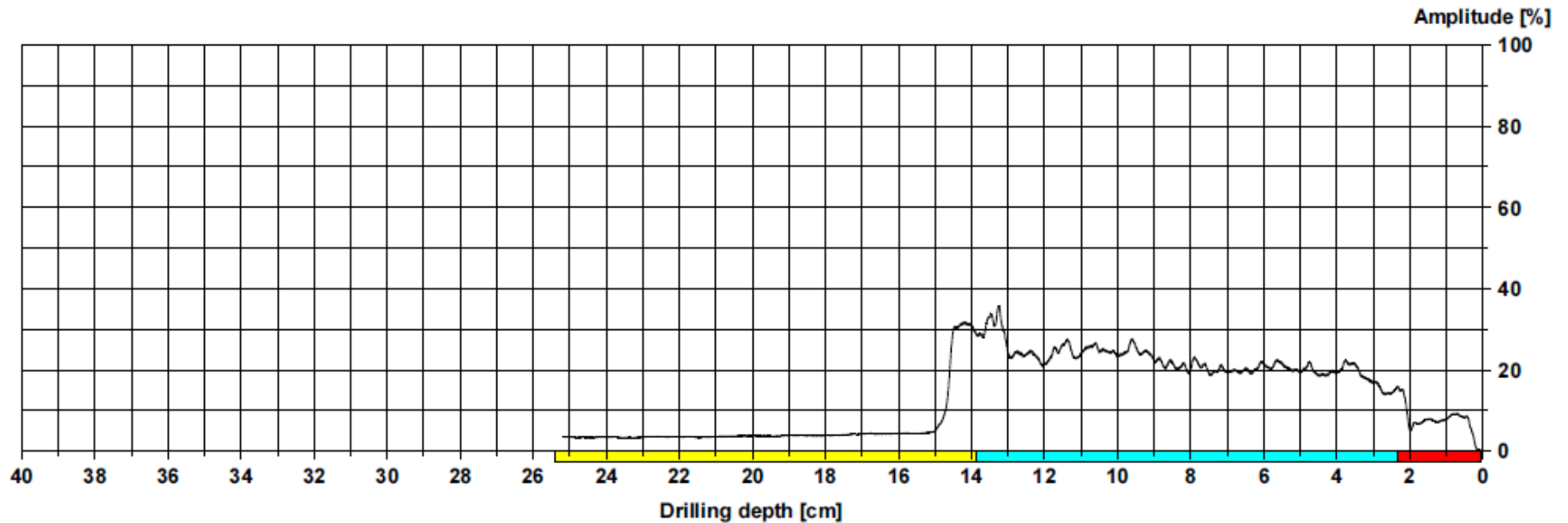
Assessment

■	From 0,1 cm to 2,5 cm : Bark
■	From 2,5 cm to 11,3 cm : Good wood
■	From 11,3 cm to 23,0 cm : Cavity
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :

Comment

Measuring / object data

Measurement no. : 17	Needle speed : 2500 r/min	Diameter : 69,0 cm
ID number : 34KELLY ST N120	Needle state : --	Level : 120,0 cm
Drilling depth : 25,17 cm	Tilt : --	Direction : North
Date : 07.07.2015	Offset : 89/277	Species : Lime
Time : 10:24:08	Avg. curve : off	Location : 34 Kelly St
Feed speed : 150 cm/min		Name :



Assessment

■	From 0,1 cm to 2,3 cm : Bark
■	From 2,3 cm to 13,9 cm : Good wood
■	From 13,9 cm to 25,4 cm : Cavity
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :
■	From 0,0 cm to 0,0 cm :

Comment