

Site Investigation Report

Auger Ref:

102230.5.BSI



Job Information

Client	Sedgwick International UK
Client ref	8767150
Visit date	01/12/2020
Report date	07/12/2020

Job Summary

- ✓ 1 trial hole undertaken. [Read more.](#)
- ✓ Requested soil samples taken. [Read more.](#)
- ✓ Requested root samples taken. [Read more.](#)



Job Information

Overview

Brief

Auger were commissioned by Sedgwick International UK to undertake a site investigation within the area of concern at the property.

Photographs

Trial Hole 1

Fig 1.1: Trial Hole 1 Location (borehole)



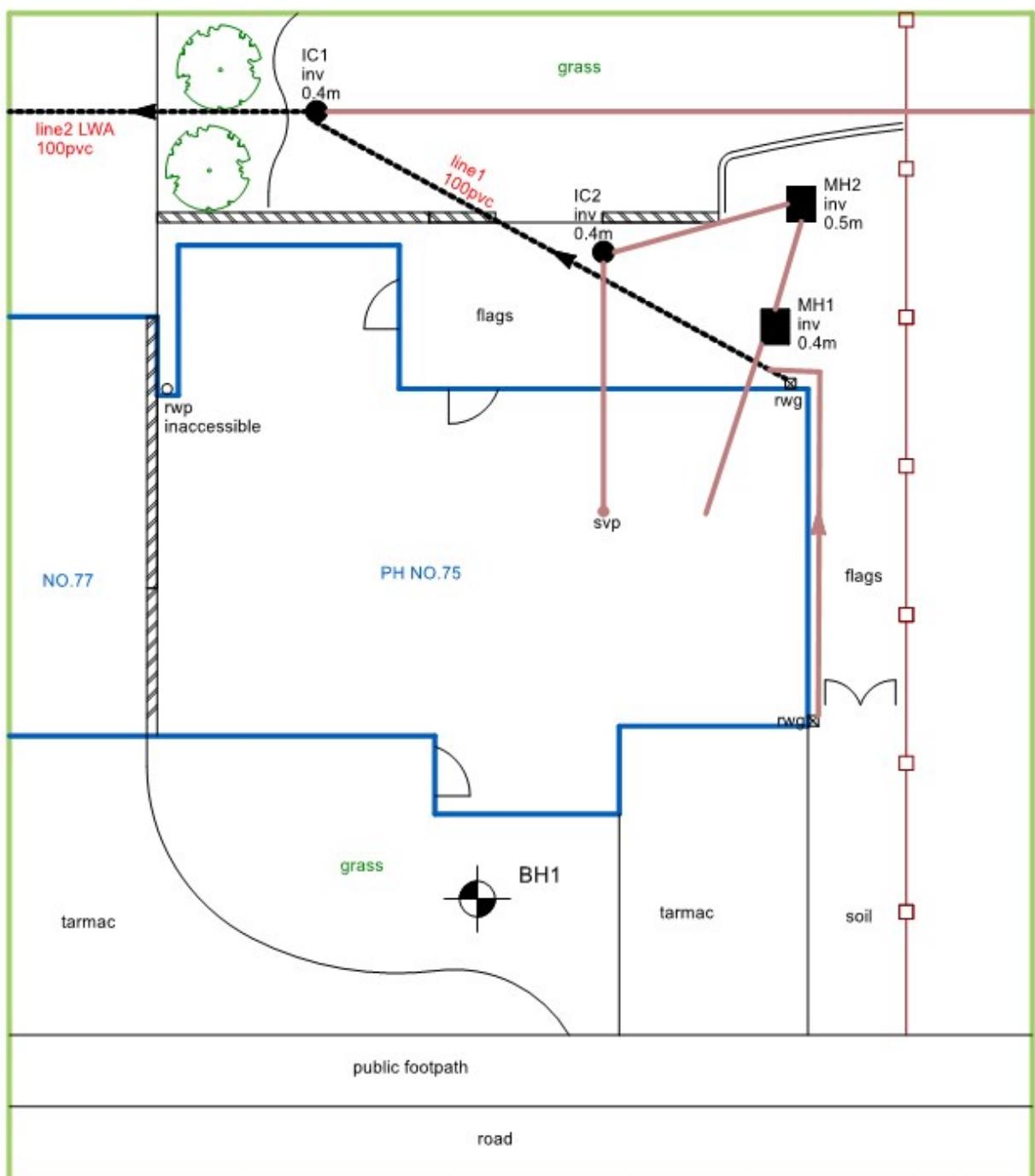
Fig 1.2: Trial Hole 1 Samples



Other Photos

Fig 7.1: Mechanical rig on site





FRONT OF PROPERTY

This drawing should be used for diagrammatic purposes only. Auger are not responsible or liable for any 3rd party works undertaken using the details outlined in this drawing. Confirmation of the drainage configuration can only be confirmed by excavation or detailed technical survey.

LEGEND									
	= Manhole		= Blockage		= Lines not camera surveyed		= Lines camera surveyed		= Assumed water mains feed
	= Inspection Chamber		= svp/w/c		= Walls		= Steps		= Trial hole
	= Inspection Pot		= w/g/fwg		= rwg		= Fences		= Borehole
			= rwp		= Building Outline		= gate / door		= Hedge
									= Tree
									= Direction of flow



Trial Hole Log No.1

Location: RBH in front garden

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Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0	Remote Borehole	Ground Level				
0.0		Grass				
0.5		Moist Brown sandy fine to medium gravelly silty CLAY (made ground)			Soil @ 0.5m	Root @ 0.3m
1.0		Moist Brown sandy silty CLAY			Soil @ 1m	Root @ 0.8m
1.5		Moist Brown sandy fine to coarse gravelly silty CLAY			Soil @ 1.5m	Root @ 1.1m
2.0					Soil @ 2m	Root @ 2.1m
2.5					Soil @ 2.5m	
3.0		Moist Brown fine to medium gravelly silty CLAY			Soil @ 3m	
3.5					Soil @ 3.5m	Root @ 3.4m
4.0					Soil @ 4.0m	
4.5		Moist Brown fine gravelly silty CLAY			Soil @ 4.5m	
5.0		TRIAL HOLE TERMINATED	130kpa		Soil @ 5m	



Geotechnical Testing Analysis Report



environmental +
claims mgmt +
subsidence +
drainage +

Unit 3 & 4,
Heol Aur,
Dafen Ind Estate,
Dafen
Llanelli,
Carmarthenshire,
SA14 8QN

Auger House,
Cross Lane,
Wallasey,
Wirral,
CH45 8RH

Summary Of Claim Details

Policy Holder	Unknown
Risk Address	Unknown
SI Date	01/12/2020
Issue Date	01/12/2020
Report Date	18/12/2020
Auger Reference	102230.5.3.RSS
Insurance Company	Fairmead Insurance Limited
LA Claim Reference	8767150
LA Co. Reference	

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

	Checked	18/12/2020	Wayne Honey	
	Approved	18/12/2020	Paul Evans	





**LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377 : Part 2 : 1990 Method 5)
DESCRIPTIONS**



environmental +
claims mgmt +
subsidence +
drainage +

GSTL Contract Number	51672	
Risk Address	Unknown	
Auger Reference	102230.5.3.RSS	

Test Operator	Checked	18/12/2020	Wayne Honey	
Luke Williams	Approved	18/12/2020	Paul Evans	





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377 : Part 2 : 1990 Method 5)



environmental
claims mgmt
subsidence
drainage

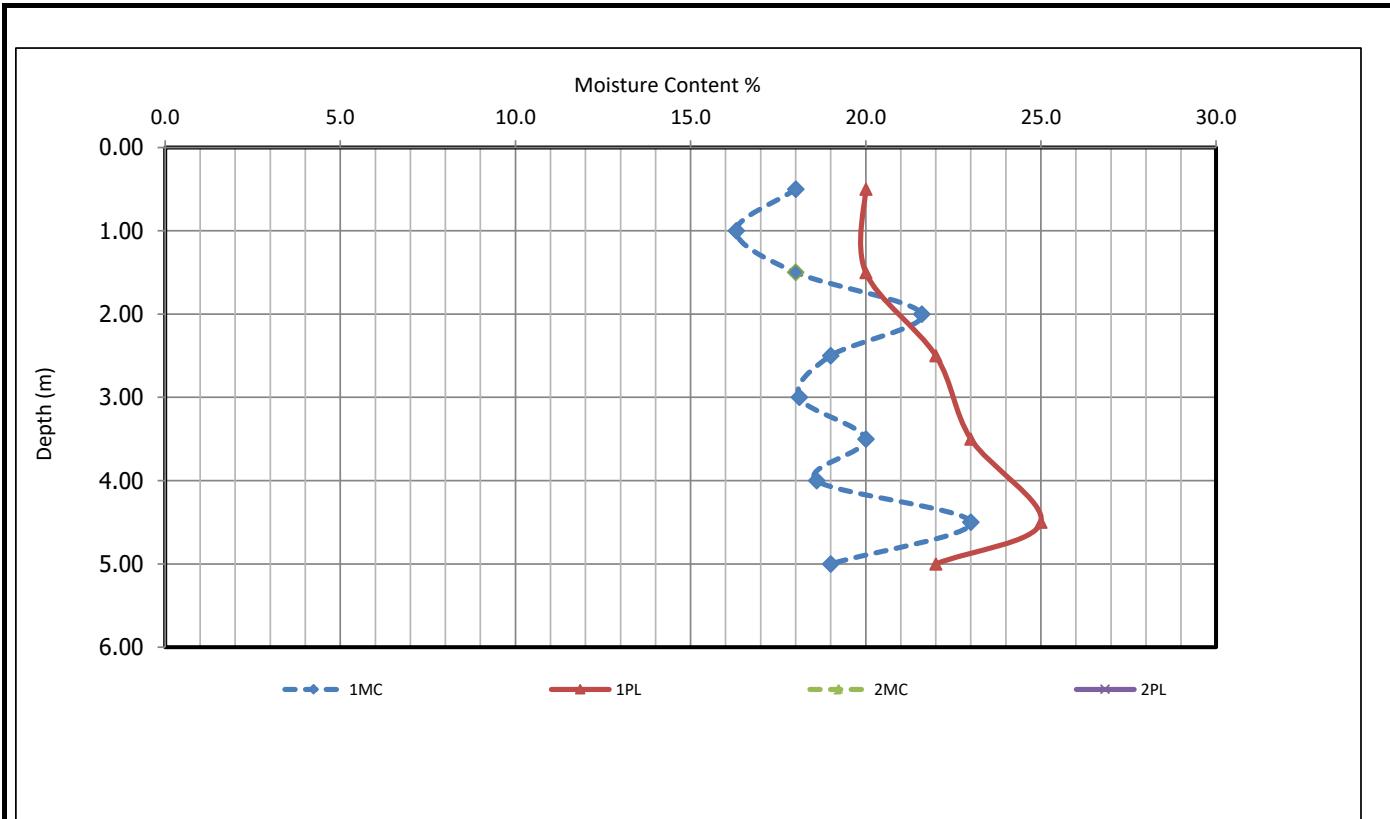
GSTL Contract Number	51672
Risk Address	Unknown
Auger Reference	102230.5.3.RSS
Remarks	NP - (Non-Plastic), # - (Liquid Limit and Plastic Limit Wet Sieved)

Modified Plasticity Index (PI) <10	: Non Classified
Modified PI = 10 to <20	: Low volume change potential (LOW VCP)
Modified PI = 20 to <40	: Medium volume change potential (Med VCP)
Modified PI = 40 or greater	: High volume change potential (HIGH VCP)

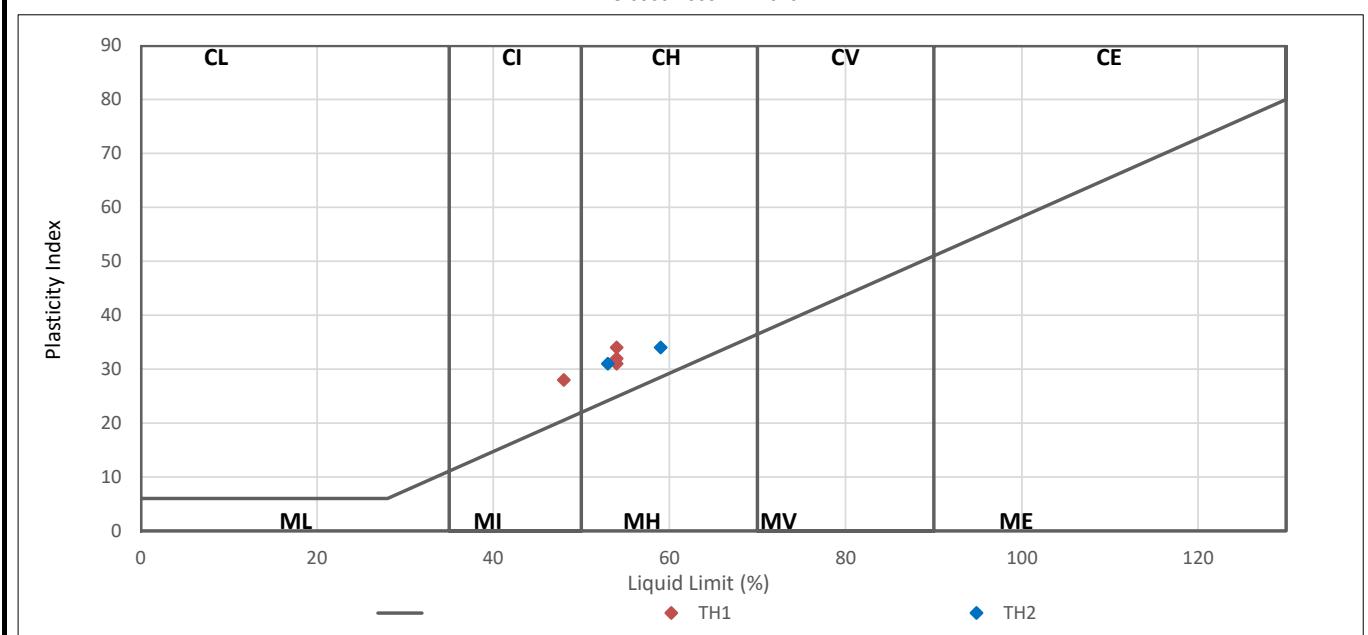
The Atterberg Limits May also be used to classify the volume change potential of fine soils using the National House building system, as given in the NHBC's Standards Chapter 4.2 (2003) "Building Near Trees"

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Luke Williams	Approved	18/12/2020	Paul Evans	





PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



Modified Plasticity Index (PI) <10

: Non Classified

Modified PI = 10 to <20

: Low volume change potential (LOW VCP)

Modified PI = 20 to <40

: Medium volume change potential (Med VCP)

Modified PI = 40 or greater

: High volume change potential (HIGH VCP)

The Atterberg Limits May also be used to classify the volume change potential of fine soils using the National House building system, as given in the NHBC's Standards Chapter 4.2 (2003) "Building Near Trees"

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**SUMMARY OF SOIL CLASSIFICATION TESTS,
Information Paper IP 4/93 February 1993 (CI/SfB p1),
Information Paper Digest 412 ci/sFb (A3s) February 1996**

BRE
BRE



environmental
claims mgmt
subsidence
drainage

GSTL Contract Number

51672

Risk Address

Unknown

Auger Reference

102230.5.3.RSS

Remarks

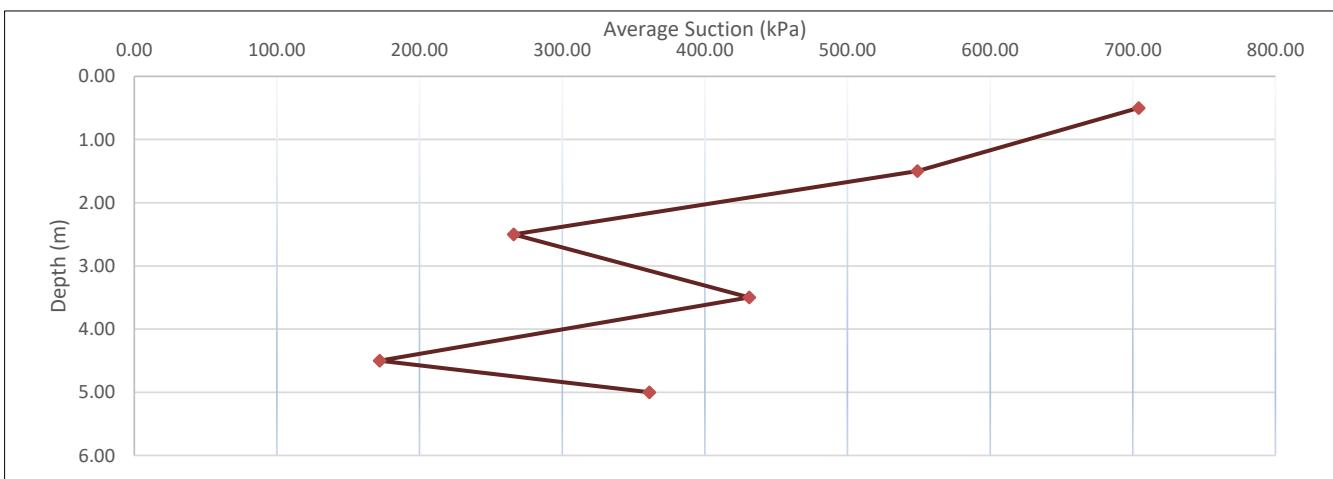
D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample

TH Trial Hole	Depth (m)	Filter Paper Location	Filter Paper	Sample Prep Method	Test Duration (Days)	Water Content (%)	Soil Suction Pk (kPa)	Average Soil Suction Pk (kPa)	Cumulative Heave Potential (mm) from bottom of the hole
TH1	0.50	Top	I	D	5	31.2	796	704	20
TH1		Middle	II	D	5	32.1	693		
TH1		Bottom	III	D	5	32.9	624		
TH1	1.00							549	20
TH1									
TH1									
TH1	1.50	Top	I	D	5	35.4	435	266	11
TH1		Middle	II	D	5	34.6	485		
TH1		Bottom	III	D	5	31.8	727		
TH1	2.00							431	8
TH1									
TH1									
TH1	2.50	Top	I	D	5	38.9	263	266	11
TH1		Middle	II	D	5	40.2	218		
TH1		Bottom	III	D	5	37.6	317		
TH1	3.00							431	8
TH1									
TH1									
TH1	3.50	Top	I	D	5	33.2	598	431	8
TH1		Middle	II	D	5	33.8	544		
TH1		Bottom	III	D	5	42.8	150		

Heave potential is calculated from the bottom of the hole and heaves above the bottom of the hole are reported as a cumulative value.

The values reported for heave above only apply to the strata the suction and plasticity have been performed on. The shallowest depth reported is assumed to be a strata thickness to GL and Heave is calculated based on that layer thickness, if the next sample is in 0.5m increments the heave is calculated based on the layer thickness of 0.5m and depths 1m from the sample above will include heave over 1m.

Consideration should be made for other stratas where values are not reported and when working out the heave potential over the entire trial hole.



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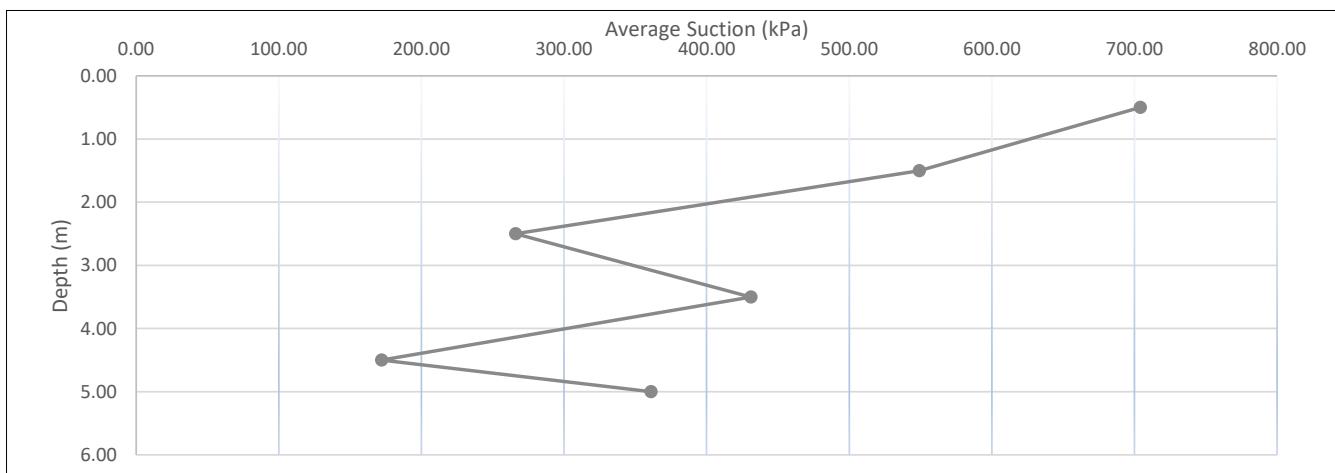


GSTL Contract Number	51672	
Risk Address	Unknown	
Auger Reference	102230.5.3.RSS	
Remarks	D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample	

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Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Dr Ian B K Richardson
BSc, MSc, PhD, MRSB, FLS
James Richardson
BSc (Hons. Biology)

Auger Solutions

Auger House

Cross Lane

WALLASEY

Wirral CH45 8RH

Enterprise House
49-51 Whiteknights Road
Reading
RG6 7BB
Tel: (0118) 986 9552 (Direct line)
E-mail: richardsons@botanical.net
Web: www.botanical.net

Your ref: **102230-5-2**

24/12/2020

Our ref: 81/3601

Dear Sirs

Root ID

The samples you sent in relation to the above have been examined. Their structures were referable as follows:

BH1, 0.3-0.4m		
9 no.	Examined root: QUERCUS (Oak).	Alive, recently* .
BH1, 0.8m		
7 no.	Examined root: QUERCUS (Oak).	Dead* .
BH1, 1.1m		
2 no.	Examined root: QUERCUS (Oak).	Alive, recently* .
BH1, 2.3m		
1 no.	Examined root: QUERCUS (Oak) or the related CASTANEA (Sweet Chestnut). This was a very IMMATURE sample.	Dead* .
1 no.	Microscopic examination showed insufficient cells for recognition.	
BH1, 3.4m		
1 no.	Examined root: essentially too immature for identification (less than 0.03mm in diameter). Definitely NOT a conifer; NOR is it particularly referable to any of the above described types.	Dead* (note this 'dead' result can be unreliable with such thin samples).

Click here for more information: [CASTANEA](#) [QUERCUS](#)

I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.

Yours faithfully

Dr Ian B K Richardson

* Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

* * Try out our web site on www.botanical.net * *