

**CCTV REPORT FOR: HELIOS HOUSE
CLARKES LANE
BARSHAM
NR34 8HN**

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FOUNDATION RECORD
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LABORATORY TESTING RESULTS
ROOT IDENTIFICATION



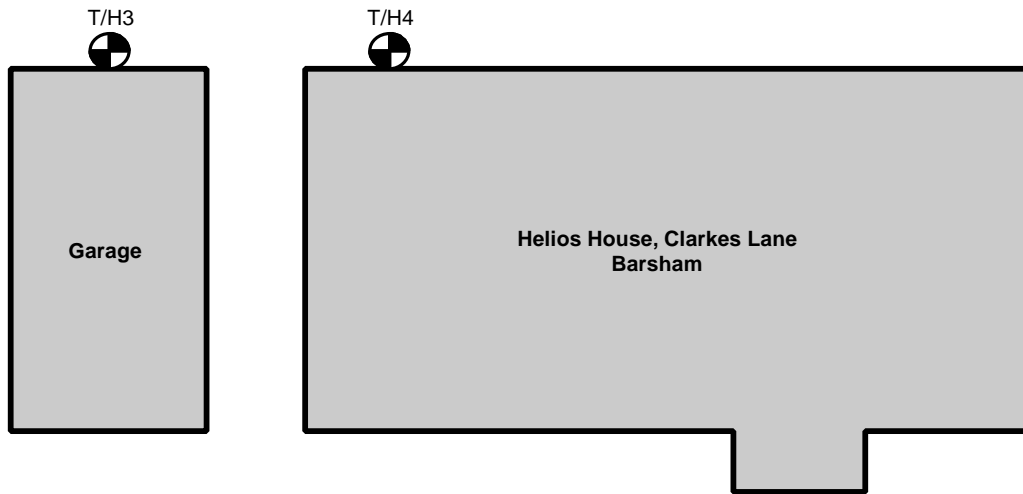
Client: 360Globalnet
Regus House
Herald Way
Pegasus Business Park
Castle Donington
DE74 2TZ

Insured: Mrs. Ann Gaskin
Reference: LIV-SN-22-006091 Ins Ref: 610-11-000307

Site Visit: 16-Jan-24
Report Date: 02-Feb-24

Site Crew: TLR

Date: 16-Jan-24







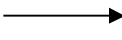
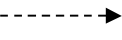

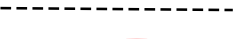





FRONT

(This plan is not to be scaled and is provided to illustrate general layout only)

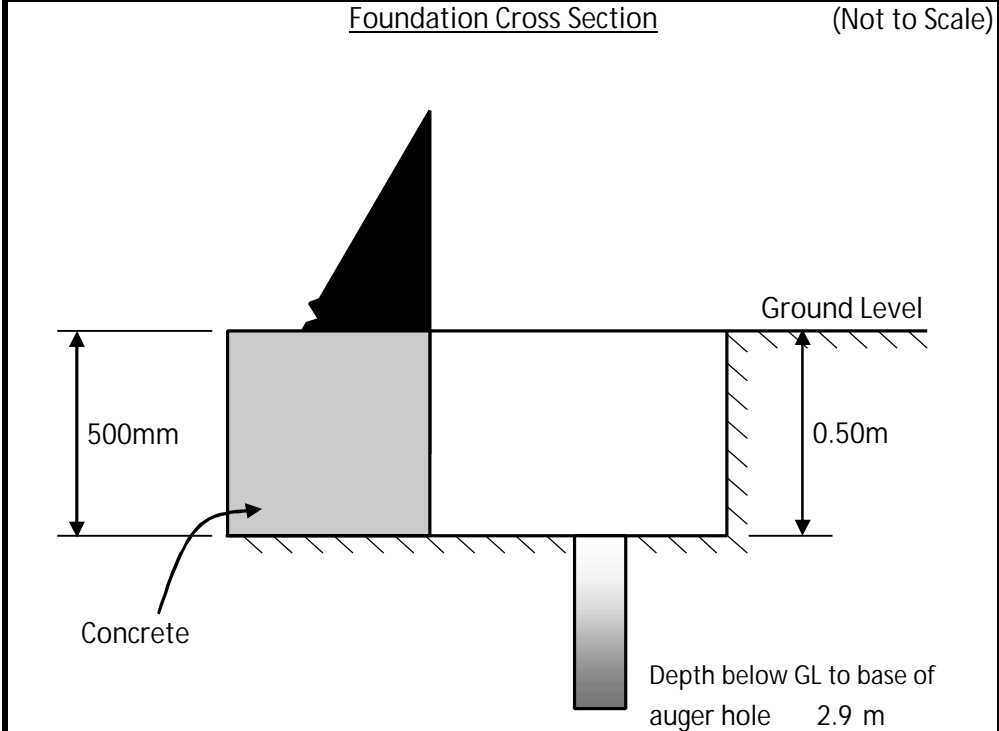
General Comments:

Note: Runs shown in red have been adopted by the local water authority.

 = Storm Gully	 = Storm Pipe	 = Foul Gully	 = W/C or Soil Pipe	 = Inspection Chamber
 = Rodding Eye	 = Surveyed pipe indicating flow	 = Unsurveyed pipe		
 = Exploratory Hole (hand dug pit and/or hand auger)	 = Boundary line			
 = Hedges & Shrubs	 = Trees & bushes	 = Area of damage		

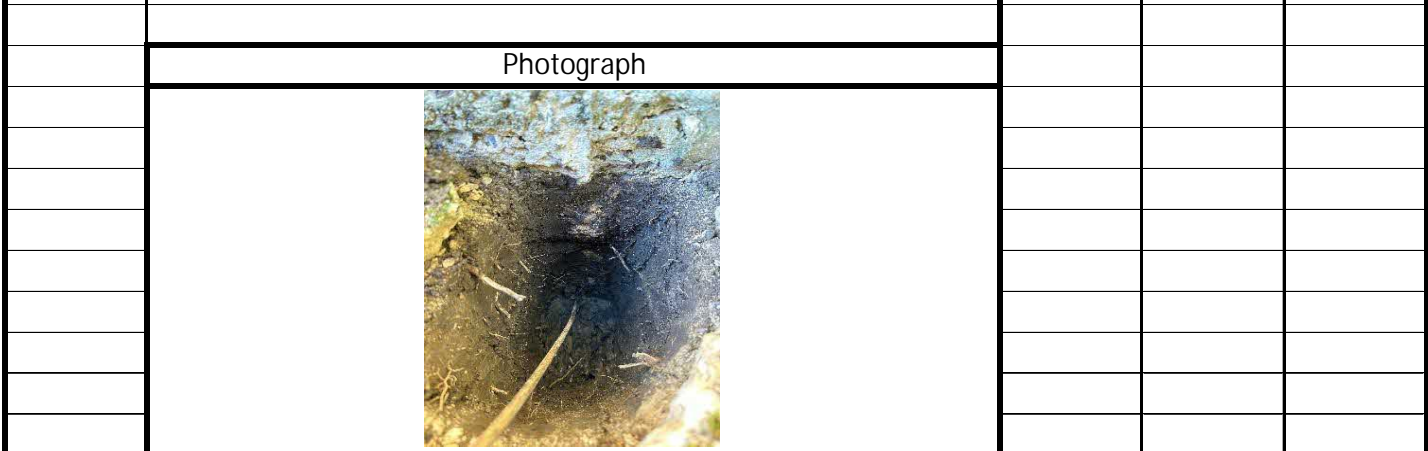
Address: HELIOS HOUSE, CLARKES LANE, BARSHAM, NR34 8HN

Location: Rear of Garage	T/H No. 3
Ground Surface: Dry	Weather: Dry
	Date: 16-Jan-24



Roots Depth & Diameter:
From 0.5m
Down to 1.9m
Water Depth Hit & Rise:
None observed on site
Reason for Termination:
Encountered obstruction
Sandstone

Depth (m)	Soil Descriptions (NB: Field crew description only)	Test Type	Depth (m)	
			From	To
G.L.				
0.50	Firm brown CLAY with some medium gravel (inc. chalk)	P.P. 4.5	0.500	
1.00	Firm/stiff brown slightly silty CLAY with some medium gravel (inc. chalk)	P.P. 4.5	1.000	
1.50	Firm/stiff grey/brown slightly silty CLAY with some medium gravel (inc. chalk)	P.P. 4.5	1.500	
2.00	Stiff grey/brown slightly silty CLAY with much medium gravel (inc. chalk)	P.P. 4.5	2.000	
2.50	Very stiff brown slightly sandy/silty CLAY with much medium gravel (inc. chalk)	P.P. 4.5	2.500	
2.90	End of Borehole	P.P. 4.5	2.900	

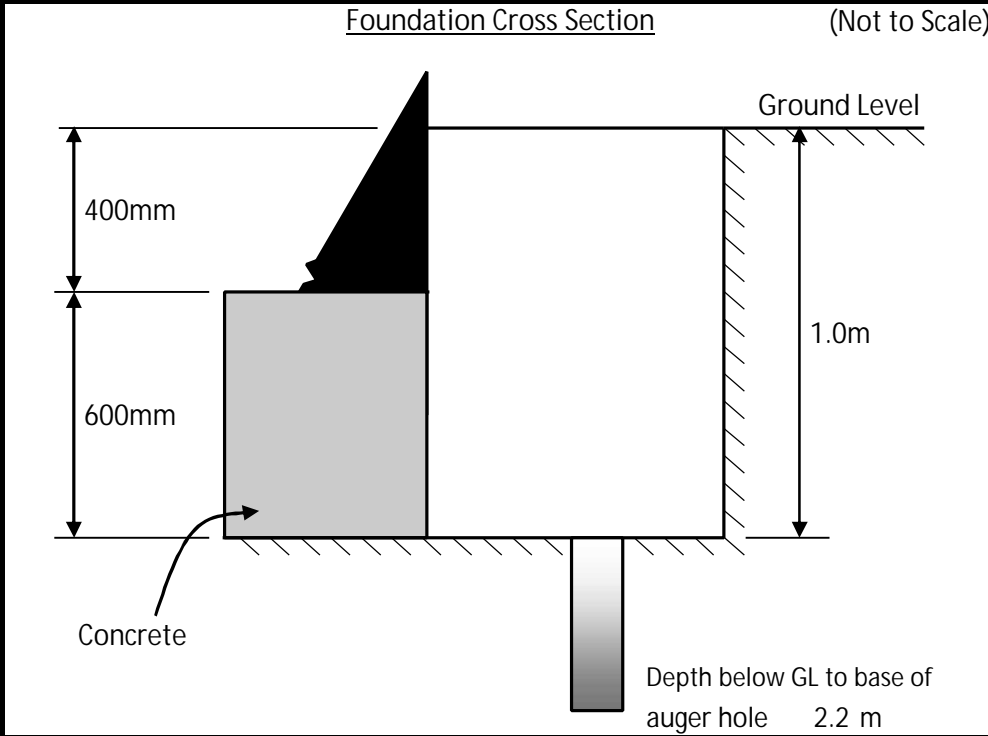


General Comments :

Key: Mac=Macintosh Probe, V(n)=Natural Shear Vane, P.P. = Pocket Penetrometer

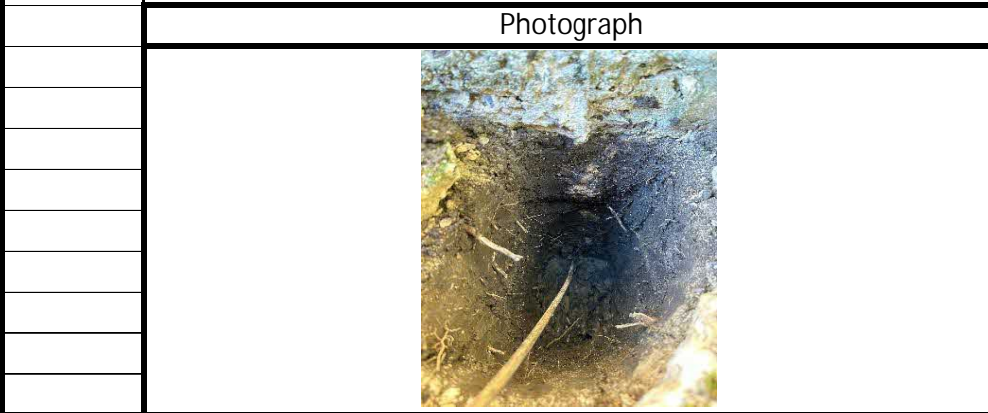
Address: HELIOS HOUSE, CLARKES LANE, BARSHAM, NR34 8HN

Location: Rear Left of House	T/H No. 4
Ground Surface: Dry	Weather: Dry
	Date: 16-Jan-24



Roots Depth & Diameter:
From 1.0m
Down to 1.7m
Water Depth Hit & Rise:
None observed on site
Reason for Termination:
Encountered obstruction
Chalk

Depth (m)	Soil Descriptions (NB: Field crew description only)	Test Type	Depth (m)	
			From	To
G.L.				
1.00	Firm/stiff brown CLAY with some medium gravel (inc. chalk)	P.P. 4.5	1.000	
1.50	Stiff grey/brown slightly silty CLAY with much medium gravel (inc. chalk)	P.P. 4.5	1.500	
2.00	<u>Very stiff grey/brown slightly silty CLAY with much medium gravel (inc. chalk)</u>	P.P. 4.5	2.000	
2.20	End of Borehole	P.P. 4.5	2.200	



General Comments :

Key: Mac=Macintosh Probe, V(n)=Natural Shear Vane, P.P. = Pocket Penetrometer

Address: HELIOS HOUSE, CLARKES LANE, BARSHAM, NR34 8HN



T/H3



T/H3



T/H4

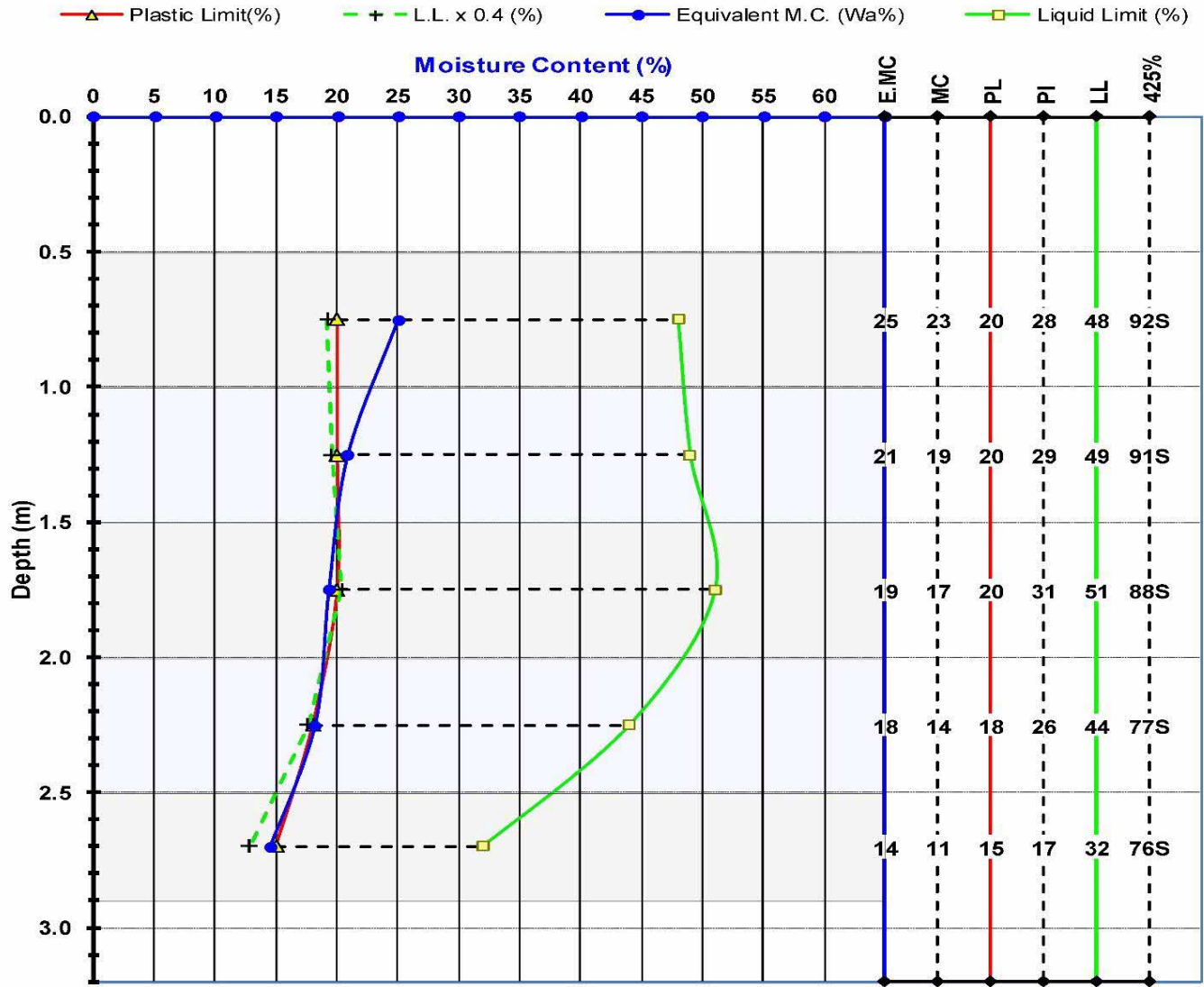


T/H4



LABORATORY TESTING RESULTS

Depth T (m)	Depth B (m)	3 - Rear of garage		Plasticity (BS 5930)	Volume Change (BRE 240)
		Brief Soil Description			
0.5	1	Firm brown CLAY with some medium gravel (inc. chalk)		Intmd. CI	26% Medium
1	1.5	Firm/stiff brown slightly silty CLAY with some medium gravel (inc. chalk)		Intmd. CI	26% Medium
1.5	2	Firm/stiff grey/brown slightly silty CLAY with some medium gravel (inc. chalk)		High CH	27% Medium
2	2.5	Stiff grey/brown slightly silty CLAY with much medium gravel (inc. chalk)		Intmd. CI	20% Medium
2.5	2.9	Very stiff brown slightly sandy/silty CLAY with much medium gravel (inc. chalk)		Low ML	13% Low



Values in () above are extrapolated

Opinions and interpretations expressed in the chart above are outside the scope of UKAS accreditation.

Key:
MC = Natural Moisture Content (%)
E.MC = Equivalent Moisture Content (%) = $MC \times 100 / 425\%$
M.PI = Modified Plasticity Index (%) = $PI \times 425\% / 100$
425% = Material passing the 425µm sieve (%) + (N = Natural or S = Sieved)
Notes: All samples received as Disturbed unless noted below in the comments.
 Samples prepared in accordance to BS1377:Part 1:1990 Section 7 & described in general accordance with BS5930:1999.
 Samples tested in accordance to BS1377:Part 2:1990 Section 3.2, 4.4 & 5.

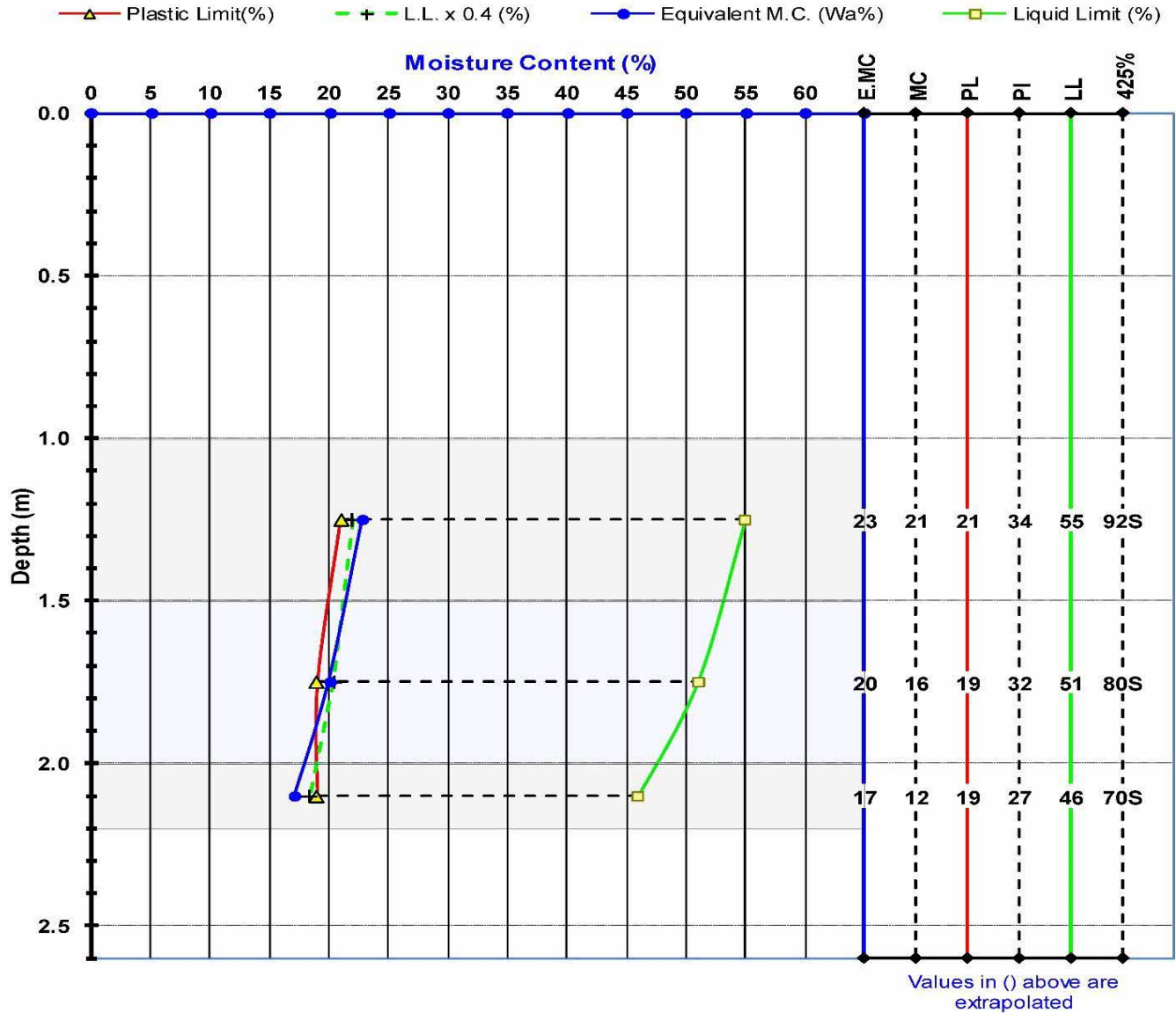
PL = Plastic Limit (%)
PI = Plasticity Index (%) = $LL - PL$
LL = Liquid Limit (%)
LL x 0.4 = 40% of the LL (%)
NP = Non Plastic

Comments:



LABORATORY TESTING RESULTS

Depth T (m)	Depth B (m)	4 - Rear left of house		Plasticity (BS 5930)	Volume Change M.PI (BRE 240)
		Brief Soil Description			
1	1.5	Firm/stiff brown CLAY with some medium gravel (inc. chalk)		High CH	31% Medium
1.5	2	Stiff grey/brown slightly silty CLAY with much medium gravel (inc. chalk)		High CH	26% Medium
2	2.2	Very stiff grey/brown slightly silty CLAY with much medium gravel (inc. chalk)		Intmd. CI	19% Low



Opinions and interpretations expressed in the chart above are outside the scope of UKAS accreditation.

Key:
MC = Natural Moisture Content (%)
E.MC = Equivalent Moisture Content (%) = $MC \times 100 / 425\%$
M.PI = Modified Plasticity Index (%) = $PI \times 425\% / 100$
425% = Material passing the 425µm sieve (%) + (N = Natural or S = Sieved)
Notes: All samples received as Disturbed unless noted below in the comments.
 Samples prepared in accordance to BS1377:Part 1:1990 Section 7 & described in general accordance with BS5930:1999.
 Samples tested in accordance to BS1377:Part 2:1990 Section 3.2, 4.4 & 5.

PL = Plastic Limit (%)
PI = Plasticity Index (%) = $LL - PL$
LL = Liquid Limit (%)
LL x 0.4 = 40% of the LL (%)
NP = Non Plastic

Comments:



Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Richardson's Botanical Identifications

The Drainage Repair Company
Suite 15, Leatherline House
71 Narrow Lane
AYLESTONE
Leicester LE2 8NA

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

Enterprise House
49-51 Whiteknights Road
Reading
RG6 7BB

Tel: [REDACTED]
E-mail: [REDACTED]
Web: www.botanical.net

Your ref: **Root ID**

Our ref: 88/0909

01/02/2024

Dear Sirs

Helios House NR34 8HN

The samples you sent in relation to the above on 15/01/2024 have been examined. Their structures were referable as follows:

TP/BH3, 0.50-1.50m		
15 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
18 no.	Unfortunately all with insufficient cells for identification.	
TP/BH3, 1.50-1.90m		
1 no.	Examined root: essentially too immature for a confident identification (under 0.08mm in diameter). NOT coniferous. Similar in some ways to ACER (Maples, Sycamores). Tentative.	Dead* (note this 'dead' result can be unreliable with such thin samples).
12 no.	Unfortunately all with insufficient cells for identification.	
TP/BH4, 1.00-1.70m		
1 no.	Examined root: ACER (Maples, Sycamores).	Alive, recently*.
6 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
7 no.	Unfortunately all with insufficient cells for identification.	

Click here for more information: [ACER](#) [FRAXINUS](#)

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.

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